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UWM Undergraduate Catalog 2017-2018

HOW TO USE THIS BOOK

This undergraduate catalog is divided into two basic content areas.

The **front section** (through the Academic Information section) contains basic, noncurricular information pertinent to undergraduate education.

The **school and college** sections that follow include program requirements, course descriptions, and faculty listings.

KEY TO COURSE NUMBERING SYSTEM

100-299 Lower division courses not open to graduate students for credit.

300-699 Upper division courses that may, if so designated, carry graduate credit. Courses with level "U" are offered for undergraduate credit only; courses with level "U/G" may be offered for undergraduate and/or graduate credit. Insofar as a course approved for graduate credit may not be offered for graduate credit in a given semester, the current *Timetable* should be consulted. Junior standing is normally a minimum prerequisite for 300-699 courses that carry graduate credit.

Abbreviations in Course Descriptions

cr:	Credit(s)
yr:	Year
sem:	Semester
P:	Prerequisite(s)
R:	Recommended Course
NP:	Non-repeatable Prerequisite
C:	Co-requisite
NC:	Non-repeatable Co-requisite
ER:	Enrollment Restriction
fr, soph, jr, sr, grad st:	Freshman, Sophomore, Junior, Senior, Grad Standing
intro:	Introductory
equiv:	Equivalent
conc reg:	Concurrent Registration
conc enroll:	Concurrent Enrollment
cons instr:	Consent of Instructor
cons Dept Chair:	Consent of Department Chair
cons Prog Dir:	Consent of Program Director
lit-in-trans:	Literature in Translation
max:	Maximum

CHANGES IN PROGRAMS

This catalog includes academic policies, procedures, programs, courses, and requirements in effect at the time of

publication. The University faculty and administration reserve the right to make changes in these regulations; some of these changes may affect students' programs. Efforts will be made to publicize all changes, but it is the responsibility of students to ascertain the requirements of their programs at all times.

COURSE ABBREVIATIONS

The following abbreviations are used to identify UWM courses in this catalog:

Ad Ldsp:	Administrative Leadership
Africol:	Africology
AIS:	American Indian Studies
Anthro:	Anthropology
Arabic:	Arabic
Arch:	Architecture
Art:	Art and Design
Art Ed:	Art Education
ArtHist:	Art History
Astron:	Astronomy
Atm Sci:	Atmospheric Science
Bio Sci:	Biological Sciences
BME:	Biomedical Engineering
BMS:	Biomedical Sciences
Bus Adm:	Business Administration
Celtic:	Celtic Studies
CES:	Conservation and Environmental Science
Chem:	Chemistry and Biochemistry
Chinese:	Chinese
Civ Eng:	Civil Engineering and Environmental Engineering
Classic:	Classics
Commun:	Communication
CompLit:	Comparative Literature
CompSci:	Computer Science
ComSDis:	Communication Sciences and Disorders
Couns:	Counseling
Crm Jst:	Criminal Justice
CurrIns:	Curriculum and Instruction
Dance:	Dance
DAC	Digital Arts and Culture
EAP:	English for Academic Purposes (formerly ESL)
EAS:	Engineering and Applied Science
Econ:	Economics
Ed Pol:	Educational Policy and Community Studies
Ed Psy:	Educational Psychology
Educ:	Education
ElecEng:	Electrical Engineering
English:	English
Ethnic:	Ethnic Studies
ExcEduc:	Exceptional Education

Film:	Film, Video, Animation, and New Genres
FilmStd:	Film Studies
FineArt:	Fine Arts â€™ Interdepartmental
FLL:	Foreign Languages and Literature
FoodBev:	Food and Beverage Studies
French:	French
FrshWtr:	Freshwater Sciences
Geog:	Geography
Geo Sci:	Geological Sciences
German:	German
Global:	Global Studies
Greek:	Greek
HCA:	Health Care Administration
Hebr St:	Hebrew Studies
Hist:	History
Hmong:	Hmong Studies
Honors:	Honors
HS:	Health Sciences
Ind Eng:	Industrial and Manufacturing Engineering
InfoSt:	Information Studies
IntlSt:	International Studies
Italian:	Italian
JAMS:	Journalism, Advertising, and Media Studies
Japanese:	Japanese
Jewish:	Jewish Studies
Kin:	Kinesiology
Korean:	Korean
Latin:	Latin
LACS:	Latin American and Caribbean Studies
LACUSL:	Latin American, Caribbean, and U.S. Latin@ Studies
Latino:	Latino Studies
L&S Hum:	Letters and Science Humanities
L&S NS:	Letters and Science Natural Science
L&S SS:	Letters and Science Social Science
LGBT:	Lesbian, Gay, Bisexual, and Transgender Studies
Linguis:	Linguistics
Math:	Mathematical Sciences
MatlEng:	Materials Science and Engineering
MechEng:	Mechanical Engineering
Mil Sci:	Military Sciences
MthStat:	Mathematical Statistics
Music:	Music
Mus Ed:	Music Education
MusPerf:	Music Performance
Nurs:	Nursing
Nutr:	Nutritional Sciences
OccThpy:	Occupational Therapy
PeaceSt:	Peace Studies
PH:	Public Health
Philos:	Philosophy
Physics:	Physics
Pol Sci:	Political Science
Polish:	Polish
Portugs:	Portuguese

Psych:	Psychology
ReligSt:	Religious Studies
Russian:	Russian
ScndvSt:	Scandinavian Studies
Soc Wrk:	Social Work
Sociol:	Sociology
Spanish:	Spanish
Spt&Rec:	Sport and Recreation
Theatre:	Theatre
TherRec:	Therapeutic Recreation
Trnsltn:	Translation and Interpreting
UWS Nsg:	UWS Collaborative Nursing Program
UrbPlan:	Urban Planning
Urb Std:	Urban Studies
WGS:	Women's and Gender Studies

PREREQUISITE COURSE DEFINITIONS

R-Recommended Course: A course that the instructor strongly recommends be taken prior to enrollment in a subsequent course.

Ex.: *ANTHRO 334 American Indians of the Southwest . . . Prereq: ANTHRO 314 (R)*. ANTHRO 314 is recommended for students enrolling in ANTHRO 334.

P-Prerequisite: A course in which a student is required to earn credit prior to being allowed to enroll in a subsequent higher level course. A prerequisite course may not be taken for credit subsequent to the earning of credit in the higher level course.

Ex.: *PSYCH 205 Personality . . . Prereq: PSYCH 101 (P)*. Students must earn credit in PSYCH 101 before enrolling in PSYCH 205, and may not receive credit for PSYCH 101 after enrolling in PSYCH 205.

NP-Nonrepeatable Prerequisite: A prerequisite course for which the student is not permitted to substitute the grade earned when the course is repeated subsequent to earning credit in the higher level course.

Ex.: *COMPSCI 252 Computer Programming II . . . Prereq: COMPSCI 152 (NP)*. Students may not repeat COMPSCI 152 for the purpose of receiving a higher grade after enrolling in COMPSCI 252.

C-Corequisite: A course that may be taken as either a prerequisite or as a concurrent registration with the higher level course.

Ex.: *BUS ADM 210 Introduction to Management Statistics . . . Prereq: MATH 211 (C) or MATH 231 (C)*. Students must enroll in MATH 211 or 231 either prior to or at the same time as they enroll in BUS ADM 210.

NC-Nonrepeatable Corequisite: A corequisite course for which the student is not permitted to substitute the grade earned when the course is repeated subsequent to earning credit in the higher level course.

Ex.: *HLTHMNT 232 Nursing Practice for Health Promotion . . . Prereq: admission to enroll in clinical nursing major; HLTHMNT 210 (NC), 211 (NC); FNDNURS 230 (NC); HLTHRST 320 (NC)*. Students must enroll in the four listed (NC) courses either prior to or at the same time as they enroll in HLTHMNT 232. They may not repeat any of these four courses for the purpose of receiving a higher grade after enrolling in HLTHMNT 232.

ER-Enrollment Restriction: A course that is not open **for enrollment** to students who have earned credits in a

specified course (or courses) with similar or overlapping content.

Ex.: *ECON 100-after cr is earned in ECON 103 or 104.*

A **course number followed by another number in parentheses** means that the course was previously offered under the number in parentheses. The two courses are the same course and the repeat policy applies.

Ex.: *HUM KIN 270 (370) - HUM KIN 270 is the same course as HUM KIN 370. A student with credit in HUM KIN 370 may enroll in 270 as a repeat unless 370 was taken more than once.*

This publication may be requested in accessible format.

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General Education Requirements

The General Education Requirements are intended to give structure to each student's education while providing the student the greatest possible freedom to design an individual academic program. These requirements include two major categories, competency and distribution.

The **competency requirements** are designed to assure basic proficiency in oral and written communication, quantitative literacy, and foreign language. The GER Quantitative Literacy Part A and Oral and Written Communications Part A requirements should be completed early in the academic career to ensure acquisition of critical skills for subsequent coursework. Many UWM schools/colleges require completion of Part A of those competencies prior to advancing to the professional portion of the major. Completion of the relevant Part A competency is also a prerequisite for some intermediate and advanced courses. The **distribution requirements** are designed to provide students with a broad body of knowledge in the areas of the arts, humanities, natural sciences, and social sciences as a foundation for specialization.

Specific GER requirements are as follows:

COMPETENCY REQUIREMENTS

Oral and Written Communication (OWC) Competency

OWC Part A: Completion of OWC Part A can be demonstrated by satisfying one of the following options:

1. earning at least three credits with a grade of C or higher in English 102*; or
2. transferring at least three credits with a grade of C or higher in a course equivalent to English 102 or higher level expository writing course*; or
3. achieving an appropriate score on the English Placement Test (EPT).

OWC Part B: The OWC Part B is satisfied by completing an approved advanced course (at least three credits) with a significant written or oral communication component by students who have completed the Part A requirement.

Courses that count toward the OWC Part B requirement may be offered in a variety of disciplines and students are encouraged to choose the course that matches their interests and helps them best meet the requirements of their degrees.

Quantitative Literacy (QL) Competency

QL Part A: Completion of QL Part A can be demonstrated by satisfying one of the following options:

1. earning at least three credits with a grade of C or higher in Math 102, 103 (formerly 106), 105, 175, or equivalent courses*; or
2. achieving a placement code of at least 30 on the mathematics placement test.

QL Part B: The QL Part B is satisfied by completing at least one approved QL Part B course (at least three credits) as decided by the major. QL Part B courses make significant use of quantitative tools in the context of other course material.

*** These courses may not be taken credit/no credit if they are to be used to satisfy the OWC Part A requirement or QL Part A requirement.**

Foreign Language: Completion of the foreign language requirement can be demonstrated by satisfying one of the following options:

1. complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language; or
2. complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college-level instruction in a single foreign language; or
3. demonstrate foreign language ability at least equivalent to 6 credits in two consecutive college semesters of a single foreign language by means of a satisfactory score on an approved placement, proficiency, departmental, or other appropriate examination.

Exceptions to GER

Students who entered UWM as freshmen and/or earned transferable credit as a college student prior to September 2013 are not responsible for the Oral and Written Communication Part B or the Quantitative Literacy Part B.

Students who entered UWM as freshmen and/or earned transferable credit as a college student prior to September 1999 are not responsible for the GER foreign language competency. However, individual schools and colleges may require completion of higher-level foreign language courses; students are strongly encouraged to check with their advisors and/or review their Academic Requirements report on PAWS.

In general, second degree candidates from an accredited institution and students whose first semester in a degree program at an accredited institution predates September 1986 are not subject to the General Education Requirements.

All degree programs have specific requirements beyond GER. Consult with an academic advisor to design an appropriate course of study.

DISTRIBUTION REQUIREMENTS

Courses taken for distribution provide the general educational background for each student. The distribution requirements comprise course choices from the following knowledge areas:

A. Standard Distribution

- **The Arts.** Three credits in a course in the history, philosophy, theory, or practice of the creative and interpretive arts (e.g., visual arts, dance, music, and theatre).
- **The Humanities.** A total of 6 credits in at least two courses.
- **The Natural Sciences.** A total of 6 credits in at least two courses. At least one course must include laboratory or field experience illustrating the generation and testing of data and the application of concepts and knowledge to the solution of problems.
- **The Social Sciences.** A total of 6 credits in at least two courses.
- **Cultural Diversity.** All UWM students who are subject to the GER (and entered UWM in fall 1989 or later) must complete, as part of their distribution requirements, 3 credits pertaining to the study of the life experiences of African Americans, Latino/Hispanic Americans, American Indians, or Asian Americans.

A list of GER Standard Distribution courses may be found online at uwm.edu/schedule/. Individual schools and colleges may have limitations on what GER courses from other schools and colleges can be counted; students should check with their advisor.

B. Cultures and Communities Option

Students may choose the Cultures and Communities (CC) option to satisfy their GER distribution requirements. CC courses emphasize diversity and cross-cultural literacy, community-based learning, multicultural arts, global studies, and the cultural contexts of science, health care, and technology. A Service Learning course also is required. Students who complete the CC program receive the Cultures and Communities Certificate upon graduation.

A list of CC courses may be found online at uwm.edu/cultures-communities. Individual schools and colleges may have limitations on what GER courses from other schools and colleges can be counted; students should check with their advisor. For more information, contact the Cultures and Communities Program, Holton Hall G36, (414) 229-5960.

Required Areas of Study

The CC Certificate requires students to choose at least 15 of their GER credit hours according to the following plan of study.

Area 1: Cultures and Communities Core Course (3 cr). Multicultural America (satisfies Cultural Diversity and Humanities, Social Science, or Art GER requirements). May be taken as Anthropology 150, Art 150, English 150, Film 150, History 150, Sociology 150, Urban Planning 350, Urban Studies 150, or Women's and Gender Studies 150.

Area 2: Cultures and Communities of the United States (3 cr). Issues and methods in the comparative study of cultures and communities of the U.S. May be fulfilled by appropriate accredited GER or Cultural Diversity courses in any discipline, school, or college.

Area 3: Global Perspectives on Culture and Community (3 cr). Issues and methods in the comparative study of cultures and communities outside North America and Europe. May be fulfilled by appropriate accredited GER courses in any discipline, school, or college or through an appropriate study abroad experience.

Area 4: Art, Culture, and Community (3 cr). May be fulfilled by courses that relate the theory and production of art (dance, music, visual arts, film, and theater) to cultural and community contexts. Restricted to courses in the Peck School of the Arts except through special petition.

Area 5: Science, Culture, and Society (3 cr). Includes courses that examine how scientific knowledge may be understood in relation to issues in culture and society. May be fulfilled by enrollment in classes with a Natural Sciences or Social Sciences accreditation.

Community Engagement and Service Learning. Within their course distribution, students will take at least one class with a Service Learning component. The core course (Multicultural America) satisfies this requirement when taken in the fall or spring semesters.

(Please note: The number of credit hours and the distribution across knowledge areas must still conform to the totals listed under the GER Standard Distribution described in Part A above.)

Degree Requirements

The minimum number of credits required for graduation is 120, but many degree programs require 130 or more. Consult the appropriate school or college section in this catalog for specific degree requirements associated with each program or major.

Class Standing/Level in School

Prerequisites for certain courses are determined by class standing. The chart below presents the number of credits for the different class standings.

Class Standing	Business & Information Studies	L&S	Nursing	All Others
Sophomore	24-55	24-55	28-57	24-57
Junior	56-85	56-87	58-95	58-85
Senior	86 or more	88 or more	96 or more	86 or more

The prerequisite given in the course listing refers to the qualifications and/or standing needed to enroll in a given course. If no prerequisite is listed, the course is generally open to all students. If more than one prerequisite is listed, all are necessary unless a choice is clearly indicated. A student who enrolls in a course without the required prerequisites may be dropped.

Course Load

A full course load for undergraduates is considered to be a minimum of 12 credits. This definition may differ from that of the Veterans Administration, the Selective Service System, or other agencies. UWM assumes no responsibilities in this connection.

Grading System

UWM uses a letter grade system that includes "plus" and "minus" grades and is based on a 4.000 scale. For convenience in computing averages, each letter grade carries a specified number of points per credit. The scale of grades and points follows:

Grade	(Points per credit)
A	(4.000) Excellent
A-	(3.670)

B+	(3.330)
B	(3.000) Good
B-	(2.670)
C+	(2.330)
C	(2.000) Fair
C-	(1.670)
D+	(1.330)
D	(1.000) Poor
D-	(0.670)
F (0-16)	(0.000) Fail

In addition, students may be allowed to take a limited number of courses on a "Credit/No Credit" basis, and may enroll on an "Audit" basis in courses for which they do not wish to obtain college credit. The following symbols are used where grade points are not involved:

I	Incomplete
S	Satisfactory (zero credit* and audit courses only)
U	Unsatisfactory (zero credit* courses only)
Credit	C- or above (credit/no credit courses only)
No Credit	Below C- (credit/no credit courses only)
NC	Not completed (audit courses only)
Not Rptd	Grade was not submitted in time to be reported
W	Course dropped by student after fourth week of semester or first quarter of shorter session
WR	Administrative drop (enrollment in course violates permitted number of repeats)
#W	Administrative drop (enrollment in course violates permitted number of repeats), effective March 2002
R	Repeat course (counts in GPA)
#	Repeat course (does not count in GPA)

* Except English 090/095, ESL 096, and Math 090/095. Letter grades are assigned for these courses, although they carry no degree or GPA credit.

F Grades – Additional Information

Effective fall 2004, the University modified its system for assigning grades of F in order to comply with federal requirements for students receiving financial aid. When reporting a grade of F, instructors also will report a number corresponding to the student's "week of last participation" in the course. This is the last week of the term for which there is documented evidence of the student's participation in the course. A student receiving the grade of F0 would, therefore, be one who never attended or participated, whereas a student grade of F16 would signify completion of the entire term. The numeral for "week of last participation" will be reflected on unofficial transcripts and grade reports. On official transcripts, only the grade of F will be reflected.

Grade Point Average

The number of grade points earned in a course is computed by multiplying the points for the grade by the number of credits offered for the course. (Example: A B earned in a three-credit course would give you nine grade points.)

The general quality of a student's work is expressed in terms of the grade point average (GPA). This is the total number of grade points earned divided by the total number of GPA credits. The highest possible average is 4.000 or an A in every subject.

The UWM grade point average recorded on your official transcript is based solely upon credits earned or attempted at UWM on a regular graded basis. Even though you may receive credits for coursework taken elsewhere, such transfer credits are not counted as part of the GPA at UWM. Some schools and colleges have different standards for GPA calculation and may include transfer work for admission or graduation; see degree requirements within each school/college for specifics. Credits granted by examination or UWM credits taken on an audit or credit/no credit grading basis also are excluded from the official UWM grade point average.

If you are returning to UWM and have not previously earned your bachelor's degree, your cumulative GPA will continue from your last point of enrollment. If you have previously earned your bachelor's degree, you should apply as a "Second Degree" student. Your credits and GPA will start over with the courses you take upon your return, and your original record cannot be altered.

University-wide Academic Action Policy

The University-wide Academic Action Policy establishes minimum standards for undergraduate students enrolled in schools and colleges. Individual schools and colleges may adopt stricter criteria; students should consult the school/college advising offices for specific information.

A student whose GPA falls below minimum university-wide standards for any grading period will be subject to the following academic actions.

- **Academic Probation:** Imposed on students whose cumulative GPA falls below 2.000. The student on academic probation whose semester GPA is 2.000 or better, but whose cumulative GPA remains below 2.000, is permitted to continue on academic probation.
 - **Cleared Probation:** Achieved when cumulative GPA increases to 2.000 or above.
 - **Dropped for One Semester:** Imposed on any student on academic probation who fails to earn a semester GPA of 2.000.
 - **Final Probation:** Applies to a student who is permitted to enroll after any drop action. The student on final probation whose semester GPA is 2.000 or better, but whose cumulative GPA remains below 2.000, is permitted to continue on final academic probation.
 - **Dropped for Two Years:** Imposed on any student on final probation who fails to achieve a semester and cumulative GPA of 2.000 or better.
 - **Re-instatement/Re-admission:** A dropped student may be re-instated immediately after a drop action or re-admitted after the drop period. A re-admitted or re-instated student is placed on final probation.
-

Academic Drop

Academic drop is dismissal from the University for academic ineligibility. Academic drop is initiated by administrative offices. The student must apply for re-admission and be granted permission to re-enroll by the dean of the school or college from which the student was dropped.

Incompletes

You may be given an incomplete if you have carried a subject successfully until near the end of the semester but, because of illness or other unusual and substantiated cause beyond your control, have been unable to take or complete the final examination or to complete some limited amount of coursework. An incomplete is not given unless you prove to the instructor that you were prevented from completing the course requirements for just cause as indicated above.

Undergraduates are required to complete a course marked incomplete within the timeframe specified in the Incomplete Policy (S-31). If you do not remove the incomplete during this period, the report of I will lapse to F.

Overloads

The maximum credit load for undergraduates is 18 credits in all schools and colleges, except Fine Arts (18 credits or three studio courses). Students enrolling in more than 18 credits will be assessed extra tuition above the normal full-time rate. A student must obtain approval for an overload in the office of his/her academic dean. Different credit load maximums apply during the summer and winter sessions. Consult the UWinteriM or Summer Sessions *Schedule of Classes*.

Repeating Courses

Unless a restriction is stated in the *Schedule of Classes*, undergraduates may repeat a course only once, and only the higher of the two grades will be calculated into the grade point average (GPA). Both attempts will appear on the student's transcript.

If the UWM course repeats a course for which the student received transfer credit, only the UWM course will be calculated into the GPA, regardless of grade. Both attempts will be shown on the transcript. Once a bachelor's degree has been earned, the academic career (credits, GPA, and coursework) starts over with any subsequent enrollment and the original record cannot be altered. Courses taken after the bachelor's degree has been earned do not count as repeats of courses taken prior to the posting of the degree.

A student will not be permitted to repeat any course more than once without the prior approval of the student's school/college advising office. Further restrictions apply. More information at uwm.edu/onestop. The single repeat limit also applies to courses taken for audit or credit/no credit.

Note: Exceptions to this policy are variable-topic courses, which may be taken for credit as often as permitted for that particular course, as specified in the *Schedule of Classes*. A variable-topic course may count as a repeat of a previously taken course only if the topic is identical to that of the student's earlier enrollment and the repeat occurs within the same academic career.

Students who took a course as a repeat prior to fall 1988 are entitled to one additional enrollment. Transfer students who did not previously take a course at UWM are entitled to one repeat at UWM of a course taken at a previous institution.

In courses of limited enrollment, students who have not taken the course previously have priority over students who are repeating the course. Individual schools and colleges may adopt stricter criteria. It is generally advisable for any student to consult an advisor before registering to repeat a course.

If you have previously earned your degree from UWM, your attempted and earned credits as well as your cumulative GPA will start over with the courses you take in pursuit of your second degree. Courses taken as part of your first degree will not be considered repeats. Your original record cannot be altered.

Residence Credit Requirement

Consult individual school or college sections for requirements regarding the number and kinds of credits a student must take in residence at UWM to be eligible to receive a UWM degree.

Graduation

Students must meet the graduation requirements of their school or college, which includes notifying the advising office in the school or college of their intent to graduate at least one semester prior to graduation. Generally, students may begin to apply for May Commencement in mid-November, and December Commencement in mid-April. To apply for graduation, log in to PAWS (www.paws.uwm.edu). From the "Academics" section of your Student Center, click on the "Other Academic" drop-down box, select "Apply for Graduation," and click on the double arrows to proceed to the application.

Commencement exercises are held in either May or December. Students who graduate at the end of the summer sessions participate in May Commencement. Students who graduate at the end of the UWinteriM session participate in December Commencement. Attendance at Commencement is optional.

Commencement Honors are listed below.

Excess Credits Policy

A University of Wisconsin System (UWS) policy is in effect at all UWS institutions. Under this policy, students pursuing their initial undergraduate degree(s) who have accumulated more than 165 total credits (counting all credits earned at UW campuses as well as credits taken at WTCS institutions and accepted for degree credit at UWS institutions) will be assessed a 100% surcharge on tuition for any additional credits (i.e., your tuition will be doubled). For more specific information about this policy, contact your academic advisor.

Students Called to Military Service

Students called into active military service should contact the Military Educational Benefits Office for more information, Mellencamp Hall 168, (414) 229-5699, or visit the website at www.uwm.edu/mebo.

Honors for Scholarship

Type of Honors	Architecture and Urban Planning	The Arts	Business Administration ¹	Education	Engineering and Applied Science
Commencement Honors	Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).				
Dean's Honor List²	GPA of 3.750 or above (Levels 1, 2)	GPA of 3.750 or above	GPA of 3.500 or above	GPA of 3.750 or above	GPA of 3.500 or above
Dean's Honors	To graduating seniors with 2	Major achievements in			

	highest cum GPAs (Level 2).	one or more of the arts.	-	-	-
Departmental Honors	-	Dept. recommendation for Honors excellence in performance not reflected in GPA.	-	Curr & Inst-cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.	-
Final Honors	Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.				
High Honors in the Major	GPA of 3.750 or above for courses in major & 3.500 GPA for last 60 UWM cr (Level 2).	Cum GPA of 3.500 and dept. recommendation.	-	Ed Pol & Comm Studies: 3.500 cum GPA on all SOE credits.	-
Honors Degree and Honors Degree with Thesis	To graduating seniors who complete Honors College requirements.				
Honors in the Major³	GPA of 3.500 or above for courses in major & 3.250 for last 60 UWM cr (Level 2).	3.500 GPA in major and dept. recommendation.	-	Ed Pol & Comm Studies: 3.200 GPA on all SOE credits.	-
Phi Beta Kappa	-	-	-	-	-
Sophomore Honors	Sophomores with 24 or more graded UWM credits and a 3.500 GPA qualify for Sophomore Honors. They are invited to an honors convocation in April of each year.				
Honors for Scholarship (cont.)					
Type of Honors	Health Sciences⁴	Information Studies⁵	Letters and Science	Nursing	Social Welfare
Commencement Honors	Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).				

Dean's Honor List²	GPA of 3.750 or above	GPA of 3.750 or above	GPA of 3.750 or above	GPA of 3.750 or above	GPA of 3.750 or above
Dean's Honors	-	-	-	-	-
Departmental Honors	-	-	-	-	-
Final Honors	Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.				
High Honors in the Major	-	GPA of 3.750 or above for courses in the major.	-	-	-
Honors Degree and Honors Degree with Thesis	To graduating seniors who complete Honors College requirements.				
Honors in the Major³	3.500 GPA or above on courses completed at UWM following entrance to a major (a minimum of 30 credits must be included).	GPA of 3.500 or above for courses in the major.	3.000 cum GPA on all cr attempted. 3.500 GPA on all cr that count toward the major, and 3.500 GPA on all advanced cr that count toward the major. Departments/programs set course and other requirements.	-	3.500 GPA in major courses, including social science credits completed at UWM.
Phi Beta Kappa	-	-	To be elected to Phi Beta Kappa, must be L&S degree candidate; have sufficient cr in humanities, social sciences, foreign languages, math, and general liberal studies; and have completed at least 60 graded cr at UWM. Jrs. must be in upper 2% of class, with 3.800 cum GPA. Srs. must be in upper 8% of class, with 3.600 cum GPA.	-	-
Sophomore Honors	Sophomores with 24 or more graded UWM credits and a 3.500 GPA qualify for Sophomore Honors. They are invited to an honors convocation in April of each year.				

¹ Beta Gamma Sigma is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

² Applies to a full-time student's GPA on 12 or more graded credits in a given semester.

³ Refers to GPA earned in courses in the major.

⁴ Juniors in Occupational Therapy with a cumulative 3.500 GPA in required courses, and faculty/staff sponsorship, can apply to the Honors Committee for Honors in Occupational Therapy.

⁵ Applies to Bachelor of Science in Information Science and Technology degree program.

Credit/No Credit Option

To be granted credit for a course for which you have registered credit/no credit, you must earn a grade of C- or better. Consult the table below to determine whether you may enroll for courses on a credit/no credit basis. Courses **may not** be taken credit/no credit if they are to be used to satisfy the GER English and mathematics competencies or awarding of final honors.

School or College	Who qualifies?	Which courses may be taken?	Limits
Architecture and Urban Planning	Pre-Architecture students and upper-level students with a 2.500 cumulative GPA.	Elective courses; courses other than the 48 credits required for the Architectural Studies degree.	Maximum of eight courses; one course per semester.
The Arts	Undergraduates in The Arts.	Courses outside the major. Any course that would fulfill the core curriculum requirements.	One course per semester; maximum of eight courses.
Business Administration	Undergraduates in Business and Pre-Business.	All non-Business (courses outside the School of Business Administration) that are not required as part of the student's major.	Maximum of eight courses; one course per semester. No Business course may be taken on a C/NC basis by any student regardless of their program unless it is only offered on a C/NC basis. Pre-Business students may not take Econ 103, Econ 104, or Math 211 on a C/NC basis.
Education	Undergraduates in Education and Pre-Education.	Please see your advisor.	Please see your advisor.
Engineering and Applied Science	Undergraduates in Engineering and Applied Science.	Free elective or arts/humanities/social science elective courses.	Maximum of 12 credits; no more than three credits in any one semester.
Health Sciences	Undergraduates admitted to the College of Health Sciences.	No required courses in any of the pre-professional or professional programs may be taken on a C/NC basis.	Only one course, regardless of number of credits, may be taken per semester. A maximum of 12 credits may be taken C/NC.
Information Studies	Undergraduates in Information Resources.	All non-Information Studies (courses outside the School of Information Studies) that are not required as part of the student's major.	Maximum of eight courses; one course per semester.
Letters and Science	Undergraduates in Letters and Science.	Courses other than Honors courses that are not in the student's major or minor.	One course per semester; maximum of eight courses.
Nursing	Undergraduates in Nursing.	Non-clinical elective courses in Nursing.	Maximum of six credits; no more than one course per semester.

Social Welfare	Undergraduate majors and pre-majors in Social Work and Criminal Justice.	Only used in courses outside the 54-65 credit requirements in the Social Work or Criminal Justice major.	One course per semester; maximum of eight courses.
University Special and Off-Campus	University Special Students should contact an advisor in the the Office of Undergraduate Admissions . Off-campus students should contact the appropriate program coordinator.		

Some courses are offered on a C/NC basis only. These may be taken in addition to the above limits. C/NC courses are not counted in the GPA, but courses in which credit is earned will count toward graduation. Courses may be changed from a regular graded basis to C/NC or vice versa only during the same period as courses may be added. Only one such change may be made per semester per course.

University of Wisconsin-Milwaukee Undergraduate Catalog 2017-2018:

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UWM Undergraduate Catalog 2017-2018

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Office of Undergraduate Academic Advising (OUAA)

Mitchell Hall, Room 177

(414) 229-4696

<http://uwm.edu/academic-opportunity-center/>

The Office of Undergraduate Academic Advising (OUAA) educates and empowers a diverse group of students whose prior education and experiences may not have adequately prepared them for college, but who possess a commitment to higher learning. By doing so, we facilitate and support the academic growth of students and their transition and inclusion in university life.

When a student is admitted via the OUAA, the advisor becomes the student's first point of contact. The advisor helps each student interpret placement test scores and register for classes. S/he also encourages tutoring when necessary, informs students of university policies and procedures, serves as a referral source, helps students gain information about financial aid, and provides other information as needed to succeed at UWM.

For more information, please contact the Office of Undergraduate Academic Advising at (414) 229-4696, or visit our website at uwm.edu/academic-opportunity-center/.

Advanced Placement Program (AP)

*Vogel Hall, 3253 North Downer Ave.
(414) 229-2222*

High school seniors who have taken college-level courses in cooperation with the College Entrance Examination Board's (CEEB) Advanced Placement Program (AP) may take the appropriate exams and have their scores sent to the University.

Credit for courses and advanced placement are given for high achievement on certain tests. Questions about the UWM policy on the AP examinations may be directed to the Office of Undergraduate Admissions, (414) 229-2222, or check online at uwm.edu/registrar/students/transfer-information/transfer-credit/transferring-non-coursework-credit.

College Level Examination Program (CLEP)

CLEP is a series of examinations that allow individuals to earn college credit for what they already know regardless of where they learned it. CLEP is the most widely accepted credit-by-examination program in the United States.

CLEP exams are computer-based and are composed of multiple-choice questions. Candidates receive an instant official score report following completion of the exam. An exception to this is the College Composition exam, which includes two mandatory essays.

CLEP granting policies vary from college to college. A list of examinations and registration information can be found at cleptesting.uwm.edu.

International Baccalaureate

The International Baccalaureate (IB) program is a rigorous pre-university course of study that meets the needs of highly motivated and academically gifted secondary school students. Examinations are offered for study at a "Higher" level (minimum 240 teaching hours) and at a "Standard" level (minimum 150 teaching hours). Each examination is graded on a scale of 1 (minimum) to 7 (maximum).

International Baccalaureate students who enroll at the University of Wisconsin-Milwaukee are generally awarded three credits for a score of 5, 6, or 7 on the "Standard" level exams. Three credits are also generally awarded for a score of 4 on the "Higher" level exams. Students who earn a score of 5, 6, or 7 on a "Higher" level exam are generally awarded 6 credits. Those who are awarded the full diploma receive 3 additional credits. Contact the Registrar's Office in Mellencamp 212, (414) 229-3800, with questions regarding the IB policy.

African American Student Academic Services (AASAS)

*Bolton Hall, Room 170
(414) 229-6657*

The Office of African American Student Academic Services (AASAS) is a campus-wide support program that is committed to helping African American students achieve their educational goals. AASAS provides to enrolled and prospective African American students academic and supportive services that include recruitment, help with admission and financial aid forms, academic advising and assistance, personal counseling, social programming, and peer mentoring.

American Indian Student Services (AISS)

Bolton Hall, Room 195
(414) 229-5880; fax (414) 229-5930
uwm.edu/aiss

Helping American Indian students reach their educational objectives by providing assistance from application to graduation is the primary goal of American Indian Student Services. AISS is a strong, campus-wide support program committed to helping admitted and potential American Indian students connect to campus and community networks. The AISS staff members make every effort to give students a home away from home by providing a student lounge and computer lab and by coordinating seasonal events, student fundraisers, and various social activities. AISS also plans campus sociocultural and educational programs, such as an annual powwow and American Indian Awareness week. Support services include recruitment, pre-college visits, academic advising and personal counseling, help with the admission and financial aid processes, liaison between campus and tribes, peer mentoring, a computer lab, and cultural enrichment programming.

A fundamental tenet of AISS's basic philosophy is the belief that getting an education is important not only for individual students, but also for the growth, health, and future of American Indian tribes/nations.

American Indian Studies (AIS)

Bolton Hall, Room 706
(414) 229-4259
uwm.edu/american-indian-studies

American Indian Studies (AIS), based in the College of Letters and Science, is an interdisciplinary program that cooperates with University departments to offer courses designed to acquaint all students with the American Indian heritage. The AIS Program also is involved with research, writing, and publication related to American Indian Studies as an academic discipline. Students should consult the *Schedule of Classes* or the AIS coordinator, Donald Green, for more information on course offerings. Interested students may earn an interdisciplinary major in American Indian Studies.

Audit Program

Mellencamp Hall, Room 212
(414) 229-6571

Expand your horizons . . . without tests or grades. If you would like to take a course for information or enrichment without fulfilling all the course requirements, consider auditing a course. An auditor does not receive a grade or credit for the course, and in most cases is not expected to take major exams or submit projects or term papers required of students enrolled for credit. Requirements may vary, so if you want to audit a course you should discuss with the instructor such factors as attendance, coursework standards, and other expectations before enrolling, or no later than the first week of class.

No degree credit is awarded for courses taken on an audit basis, and such courses do not count in determining the minimum credit load required for student athletes, or in determining eligibility for financial aid or other benefits. Audited courses may be counted in determining maximum credit load a student may carry. Each department has restrictions on courses open to auditors. Courses not open to auditors are annotated in the *Schedule of Classes*.

Students will pay lower fees for audited courses (approximately 30% for Wisconsin residents or 50% for nonresidents). Residents of Wisconsin who are 60 years of age or older as of the first day of classes of the term for which enrollment is desired may audit classes for free, subject to space availability and instructor approval. For information about auditing

courses, please contact an advisor from the Department of Admissions and Recruitment at (414) 229-2222 or uwm.edu/contact to set up an appointment.

Cultures & Communities Program

Holton Hall, Room G36
(414) 229-5960
uwm.edu/cultures-communities

The Cultures and Communities (CC) Program is an alternative to the standard track for completing UWM's General Education Requirements. Students who choose the CC option fulfill their requirements by taking select classes that focus on multicultural understanding, community engagement, service learning, environmental and global awareness, and the appreciation of artistic, intellectual, and social diversity. CC students earn a Certificate (equivalent to an interdisciplinary minor) that documents their advanced knowledge in these areas and that serves as excellent preparation for graduate study or most any career in today's multicultural, globalized society.

The CC program is designed to work with any major and is open to all undergraduate students. A list of CC courses may be found online at uwm.edu/cultures-communities. For additional information, see the program requirements in the College of Letters and Science section of this catalog or contact the CC Program office.

English as a Second Language (ESL) Courses

Brooke Haley, ESL Credit Course Coordinator, Curtin Hall, Room 678
haleyb@uwm.edu

UWM students who learned another language before learning English can complete the English portion of their General Education Requirement (GER) by taking English for Academic Purposes (EAP) reading and writing courses instead of English writing courses designed for native speakers of English. In the EAP reading and writing courses, students learn not only what native speakers of English learn in college writing courses, but also the English language skills that non-native speakers of English need to succeed in their university studies.

The English Placement Test for Non-Native Speakers of English (EPT-NNSE) NOT the test designed for native speakers of English determines placement in EAP reading and writing courses. Contact the Testing Center [testingcenter.uwm.edu, (414) 229-4689, Mellencamp B28] to take the English Placement Test for Non-Native Speakers of English (EPT-NNSE).

In addition to the EAP reading and writing courses, UWM students whose first language is not English can benefit from taking other academic English skill building courses in reading, grammar and editing, and listening and speaking. Please see the English for Academic Purposes (EAP) section in the Schedule of Classes for a complete list of course offerings.

For more information about ESL courses for credit at UWM, contact the ESL credit course coordinator, Brooke Haley [haleyb@uwm.edu, Curtin 678].

Evening Degree Programs

Vogel Hall, 3253 North Downer Ave.
(414) 229-2222

Students can earn a baccalaureate degree in a number of majors by attending UWM exclusively during the evening. For more information, please visit uwm.edu/undergrad-admission/student-type/evening-degree-programs. At present, these majors include accounting, anthropology, communication, community education, criminal justice, economics, educational

studies, English, finance, human resources management, information resources, management information systems, marketing, mathematics, organizational administration, political science, production and operations management, social work, and Spanish. Many additional majors and programs, such as engineering, can be completed primarily during evening hours.

Freshman Seminar Program

Holton Hall, Room G16/18
(414) 229-6041
uwm.edu/first-year-seminars

Administered by the College of Letters and Science, the Freshman Seminar Program affords freshmen the opportunity to participate in a small learning community during their first year at UWM, helping to ease the transition to college. The program offers a range of seminars to students of all ability levels.

Limited to 20 first-year students, each Freshman Seminar provides a unique opportunity for students to get to know their professors and fellow students. In this small setting, the professor serves as a mentor, coaching and helping students to achieve success in their first year. Freshman Seminars emphasize the development of collaboration, teamwork, written and oral communication skills, creative and analytical thinking, and university literacy.

Seminars are offered in a wide variety of interest areas. Course titles in recent semesters have included *Forensic Chemistry: Solving Crime With Science*; *How to Think Like a Psychologist*; *Voyages in Cyberspace*; and *The World of Your Parents and Grandparents: American Culture in the 1950s*. Most freshman seminars are offered for three credits and can be applied to degree requirements. See the *Schedule of Classes* for a list of Freshman Seminars taught in this current semester.

In addition to offering seminars, the Program fosters a sense of community by offering students the opportunity to apply for peer mentoring positions and by sponsoring other events.

For more information, visit the Freshman Seminar website at uwm.edu/first-year-seminars or call (414) 229-2641.

Honors College

Honors House, Room 154
(414) 229-4658
honors.uwm.edu

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The Honors College is open to qualified undergraduates in all UWM schools and colleges. The college offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences. It is appropriate particularly for students who want more engaged and writing-intensive studies or who are preparing for graduate, law, medical, or professional school.

Students receive the degree designations "Honors" or "Honors with Distinction" on their diplomas and transcripts.

Admission

Students pursuing their first degree can join the Honors College as freshmen, continuing, or transfer students. Freshmen are admitted based upon a holistic review of their UWM application and high school record. Continuing UWM and transfer students should have a cumulative GPA equivalent to their academic standing (see below) and have met the University English requirement by testing out of, or receiving a B- or better, in English 102. All students new to Honors must meet with an Honors advisor to discuss how the Honors College can be integrated into their academic plans.

Continuing in the Honors College

Honors College students must meet the following **cumulative** GPA/enrollment criteria:

1. To continue in the Honors College, students must maintain the following minimum grade point averages for work done at UWM by the beginning of their year in school:

Freshman (after first semester)	3.0
Sophomore	3.3
Junior	3.4
Senior/to graduate with an Honors degree	3.5
2. Students admitted as new freshmen who need to complete the University English Requirement must complete Honors 200 in the first semester following their completion of the English Requirement.
3. Students who do not take Honors courses for two consecutive semesters will be considered "inactive" and dropped from the Honors College.

Graduating with Honors

All UWM Undergraduate Schools and Colleges now offer the Honors Degree, a special diploma awarded to students who complete Honors College requirements. Students who complete a Senior Thesis or Project, or complete two semesters of Research in Honors, receive a special "Honors with Distinction" degree. Graduating with an Honors Degree provides convincing evidence of outstanding academic achievement, a valuable accomplishment students can note on resumes and graduate school applications. To graduate with Honors, students must achieve a cumulative GPA of at least 3.5 and accumulate at least 21 Honors credits.

Notification of Ineligible Students

At the end of each semester, the Honors College will review students' academic records to determine whether they meet the criteria for continuation in the program. The Honors College will notify by mail all students who fail to meet these criteria, stating that they no longer are eligible to enroll in Honors classes. If these students already are enrolled in Honors classes for the next semester, they will be dropped administratively.

Regaining Honors College Eligibility

1. Students who become ineligible by failing to maintain the minimum grade point average may apply for reinstatement if they subsequently raise their grade point average to the required level.
2. Students who become ineligible after two consecutive semesters with no Honors courses may apply for reinstatement.
3. In either case, students applying for reinstatement must indicate in writing how they propose to complete Honors requirements before graduation.

Graduation Requirements

An Honors degree requires 21 Honors credits and at least a 3.5 cumulative grade point average at graduation. All Honors credits count toward the total credits required for graduation. Students must earn a grade of B- or better to receive Honors

credit for a course. At least 12 of the 21 Honors credits must be earned at UWM, with at least 9 credits in upper-level Honors seminars at UWM.

Students also may choose to graduate with "Honors with Distinction." The designation "Honors with Distinction" is awarded to students who, as part of their Honors requirements, successfully complete 6 credits in "Research in Honors," a "Senior Honors Project," or a "Senior Honors Thesis." This designation will appear on the students' transcripts. Students complete the required credits through enrollment in Honors 686, 687, or 689 (see below).

Course of Study

Honors Seminars. Freshmen and sophomores entering the Honors College must complete Honors 200, earning a grade of B- or better, before taking other honors courses (except for honors calculus, which can be taken concurrently). Following Honors 200, which may be repeated once with change in topic, students with sophomore standing or above may take departmental Honors seminars at 3H credits each.

Honors 200	Honors Seminar: The Shaping of the Modern Mind: (subtitle)	3H
Math 221	Honors Calculus I	5H
Math 222	Honors Calculus II	5(1)H
Africol 381	Honors Seminar: (subtitle)	3H
Anthro 381	Honors Seminar: (subtitle)	3H
ArtHist 381	Honors Seminar: (subtitle)	3H
Atm Sci 381	Honors Seminar: (subtitle)	3H
Bio Sci 380	Honors Seminar: (subtitle)	3H
Chem 381	Honors Seminar: (subtitle)	3H
Classic 381	Honors Seminar: (subtitle)	3H
Commun 380	Honors Seminar: (subtitle)	3H
CompLit 381	Honors Seminar: (subtitle)	3H
Econ 381	Honors Seminar: (subtitle)	3H
English 685	Honors Seminar: (subtitle)	3H
French 383	Honors Seminar: (subtitle)	3H
Geog 381	Honors Seminar: (subtitle)	3H
Geo Sci 381	Honors Seminar: (subtitle)	3H
German 381	Honors Seminar: (subtitle)	3H
Hebr St 381	Honors Seminar: (subtitle)	3H
Hist 398	Honors Seminar: (subtitle)	3H
Hist 399	Honors Seminar: (subtitle)	3H
Honors 350 (680)	University Honors Seminar in the Humanities: (subtitle)	3H
Honors 351 (683)	University Honors Seminar in the Social Sciences: (subtitle)	3H
Honors 352 (682)	University Honors Seminar in the Natural Sciences: (subtitle)	3H
Honors 380	Honors Seminar in the Arts: (subtitle)	3H
Italian 383	Honors Seminar: (subtitle)	3H

JAMS 381	Honors Seminar: (subtitle)	3H
Linguis 380	Honors Seminar: (subtitle)	3H
Math 381	Honors Seminar: (subtitle)	3H
Philos 381	Honors Seminar: (subtitle)	3H
Physics 381	Honors Seminar: (subtitle)	3H
Pol Sci 380	Honors Seminar: (subtitle)	3H
Psych 380	Honors Seminar: (subtitle)	3H
Russian 385	Honors Seminar: (subtitle)	3H
Sociol 380	Honors Seminar: (subtitle)	3H
Spanish 381	Honors Seminar: (subtitle)	3H
Urb Std 381	Honors Seminar in the Social Sciences: (subtitle)	3H

With the exception of Honors 200 and 380, variable content seminars (those marked "subtitle") are retakable with a change in topic to a maximum of 9 credits. Honors 200 and 380 are retakable once.

Advanced Independent Study (3H cr): Independent study courses offered through departments. Course numbers vary. Prerequisite: junior standing.

Honors 685 (Honors Tutorial; 3H cr): An independent study course for students who cannot arrange independent study through one of the departments. Prerequisite: junior standing.

Honors 686 (Research in Honors; 3H or 6H cr): Students assist a faculty member in his/her research and then design and complete an original and major research project under the supervision of a faculty advisor. Students who complete 6 cr are awarded "Honors with Distinction" on their transcripts. Prerequisite: junior standing and 9H credits.

***Honors 687** (Senior Honors Project; 3H cr; retakable to a max of 6H cr): The Senior Honors Project is intended for students in majors in which an Honors Thesis is not appropriate. It consists of a performance, exhibit, musical composition, or technical/professional project completed under the supervision of a faculty advisor. Students who complete 6H cr are awarded "Honors with Distinction" on their transcripts. Prerequisite: senior standing.

***Honors 689** (Senior Honors Thesis; 6H cr over two semesters): The Senior Honors Thesis allows students the opportunity to write an extended paper (usually 50-75 pages) reflecting independent research conducted in some aspect of their major field of study under the supervision of a faculty advisor. Students who complete the thesis are awarded "Honors with Thesis" on their transcripts. Prerequisite: senior standing.

***Students may not do both a Senior Thesis and a Senior Project.**

Graduate Courses. Courses at the 700 level and above may be counted toward the Honors College graduation requirements. This option normally is open only to seniors in the program who meet the necessary prerequisites. Permission for an Honors student to take a graduate course must be obtained from the instructor of the course, the department chair, the dean of the appropriate school/college, and the Honors College director.

Other Options. A maximum of 9H credits earned at other universities may be applied to the Honors College graduation requirements with the director's approval. Honors credits also may be earned through approved Study Abroad Programs.

Courses

[Honors College \(HONORS\)](#)

Administration

Peter Sands, Director
Robin Weigert, Associate Director

International Study

Pearse Hall, Room 166
(414) 229-5182
www.uwm.edu/cie/study-abroad/

The Center for International Education (CIE) provides numerous opportunities for UWM students to broaden their world perspective through study abroad. Short (six weeks or fewer), semester, and academic year programs are offered in various regions of the world, including Asia, Latin America, Africa, the British Isles, and Europe. Programs are available for all undergraduate majors.

CIE's Study Abroad library is the place to begin one's journey overseas. The library provides updated materials on study abroad programs. It also contains information on international internships, service-learning opportunities, the Peace Corps, volunteering abroad, and work abroad. After doing initial research, students can talk with a peer advisor or attend a Study Abroad workshop. Study Abroad advisors also are available to assist with the application process, instruct students on credit transfer procedures, and help identify different options to finance a study abroad program.

UWM students have studied in England, France, Germany, Ghana, Chile, Poland, Ireland, China, Japan, and Mexico, among many other countries. Upon their return, they universally comment that this educational experience changed their lives.

Military Science Program

- [Army ROTC](#)
- [Air Force ROTC](#)
- [Naval ROTC](#)

Army ROTC

UW-Milwaukee students have the opportunity to participate in the Army Reserve Officers Training Corps (AROTC) at Marquette University. The AROTC program provides university students with leadership, management, technical, and tactical skills that will enable them to start their journey as commissioned officers in the United States Army, Army Reserve, or Army National Guard.

Army ROTC is not a major field of study. It is a program in which students pursue a baccalaureate degree of their choice and take AROTC courses in military-oriented subject matter. AROTC provides a general knowledge of the contemporary role of the Army in support of national objectives and a practicum in management and leadership skills. Credits earned in military science courses apply toward graduation requirements.

The Army ROTC program offers competitive two-, three-, and four-year scholarships to qualified students. Currently, the scholarships offered for UWM students cover full tuition and fees **or** room and board, \$1,200 a year for books, and a

\$300-\$500 monthly stipend.

General Eligibility. To be eligible for an AROTC scholarship, students must:

- be a United States citizen;
- be a full-time student;
- have no major civil convictions;
- not be a conscientious objector;
- be medically qualified;
- have a minimum 2.5 GPA; and
- have a minimum ACT score of 19 or SAT score of 950.

The Army ROTC program is divided into two parts – the basic course (freshman and sophomore years) and the advanced course (junior and senior years). The freshman year course currently is being offered at UWM; the remainder of the courses are offered at Marquette University. Credit hours earned at Marquette University are transferred to UWM student transcripts and count towards GPA and elective credit.

Basic Course. In the basic course, cadets learn basic military skills and receive the foundation for leadership and management skills that are expanded during the advanced course. The basic course is open to all full-time UWM students without any obligation to the Army.

Advanced Course. During the advanced course, cadets learn more extensive leadership and management skills, and they are placed into various leadership positions in the battalion. Cadets also develop skills and attributes that are essential for all commissioned officers in the U.S. Army.

In addition to completing the military science courses, advanced-course students are required to attend the Advanced Leadership Course at Fort Lewis, Washington, during the summer between the junior and senior years. During this five-week camp, cadets are expected to apply all of the skills that they have learned in the AROTC program. In addition, cadets are offered the opportunity to compete for a chance to attend Airborne School, Air Assault School, or Cadet Troop Leadership Training (CTLT). CTLT is an "internship" in which cadets have a chance to see what a Second Lieutenant does on an active duty Army post.

To qualify for the Advanced Course, students must accomplish one of the following:

- complete the two years of the basic course;
- attend the Basic Leaders Course, a six-week camp at Fort Knox, Kentucky; or
- complete the U.S. Army Basic Training or its equivalent.

Field Exercises: Once a semester, all of the cadets in the program go to Fort McCoy, Wisconsin, to practice all of the skills that they have learned. Advanced-course cadets also are given the opportunity to improve their leadership skills by being placed in various leadership positions leading other cadets.

Physical Training: Three times a week, cadets are required to attend physical training (PT). During PT, cadets do physical activities such as push-ups, sit-ups, and running. PT currently is conducted at both UWM and Marquette University.

For more information about enrolling in the Army ROTC program, contact army-rotc@uwm.edu or the Department of Military Science at Marquette University, (414) 288-7195, or www.marquette.edu/rotc/army.

Air Force ROTC

UWM students have the opportunity to participate fully in the Air Force Reserve Officers Training Corps (AFROTC) Program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, UWM offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for

a degree and courses specified by the Air Force. AFROTC offers three- and four-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course.

General qualifications:

- be a full-time student;
- be a United States citizen (for scholarship appointment);
- be in good physical condition;
- be of good moral character;
- for pilot or navigator training, fulfill all commissioning requirements before age 29;
- for scholarship recipients, fulfill all commissioning requirements before age 31; and
- for non-scholarship students, fulfill all commissioning requirements before age 31.

General Military Course. The first- and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks and uniforms are provided free. The general military course is open to all students at UWM without advance application and does not obligate students to the Air Force in any way.

Field Training. AFROTC Field Training is offered during the summer months at Maxwell Air Force Base, Alabama, and provides leadership and officer training in a structured military environment. Major areas of study include physical training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

Professional Officer Course. The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon college graduation. All students in the professional officer course receive a non-taxable subsistence allowance per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

Leadership Lab. Leadership Lab is a cadet-centered activity. It is largely cadet-planned and -directed, in line with the premise that it provides leadership training experience that will improve a cadet's ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information, and other services that will increase the performance and motivation of other cadets.

AFROTC College Scholarship and High School Scholarship Programs. While participating in AFROTC, scholarship students receive a stipend per month along with paid tuition, fees, and a fixed textbook reimbursement. To be eligible for either of these programs, students must:

- be a U.S. citizen;
- be at least 17 years of age on the date of enrollment and under 31 years of age on December 31 of the estimated year of commissioning;
- pass an Air Force physical exam;
- be selected by a board of Air Force officers;
- have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic (applicants must not be conscientious

- objectors); and
- maintain a 2.5 grade point average.

High school students can apply for scholarships late in their junior year or early in their senior year. Information on Air Force ROTC and applications for Air Force scholarships is available at www.AFROTC.com. Scholarship applications will not be accepted after December 1 of the year before entering college.

For more information, contact the Department of Aerospace Studies at Marquette University, (414) 288-7682.

Naval ROTC

The Naval Science Department at Marquette University administers the Naval Reserve Officers Training Corps (NROTC) program. Graduates who complete all requirements will receive reserve commissions and serve on active duty in the Navy or Marine Corps with a minimum three-year commitment for non-scholarship students, and five-year commitment for scholarship students.

Scholarships

NROTC offers two-, three-, and four-year scholarships to qualified applicants. Four-year scholarships are awarded on a national level to qualified high school applicants (visit www.nrotc.navy.mil for more information and to apply). Two- and three-year scholarships are awarded to students who have completed at least one, but not more than four, terms of college while a member of the NROTC Unit. Two-year scholarships for students who are entering their junior year and have not previously been enrolled in the NROTC program also are available.

Students entering UWM with a four-year scholarship, earned on a competitive basis while still in high school, will receive full tuition, fees, laboratory expenses, a stipend for books, and a subsistence allowance of \$250 to \$400 per month, depending on class year. Necessary uniforms and textbooks for required Naval Science courses are issued as well.

Basic Requirements:

- Be a U.S. citizen;
- Not less than 17 years old by Sept. 1 of year starting college, and no more than 23 on June 30 of that year;
- Be of good moral character;
- Be a high school graduate;
- Be 27 or younger by June 30 of the year you will graduate;
- Be physically qualified by Navy/Marine Corps standards; and
- Achieve qualifying scores on the SAT or ACT – **ACT**: 22 verbal, 22 math (22 composite for Marine Corps);
SAT: 530 verbal, 520 math (1000 composite for Marine Corps).

Students not on scholarship can still participate in the NROTC College Program. They receive uniforms and Naval Science textbooks, and \$350 and \$400 per month during their junior and senior years, respectively. All College Program students are eligible to compete for Naval Education and Training Command scholarships. Students are selected on a competitive basis after completing at least one term as an NROTC College Program student. Selection boards meet semi-annually in March and June to consider students based on their most recent term. Students may receive scholarship benefits for two or three academic years. Once selected, the students receive the same benefits and incur the same active duty requirements as students in the four-year scholarship program.

The Naval Science Department teaches Naval Science courses and supervises a midshipman-run drill program that instills leadership skills and professional development in all members of the midshipman battalion. All midshipmen are required to register for and participate in this two-hour weekly drill period, which occurs at the Marquette University Gymnasium. One Naval Science class each term is also required, with the exception of Nurse Corps and Marine Corps Options. Students enrolled in the program from UWM attend Naval Science classes at Marquette as "cross-town" students, while the rest of their major is completed on the UWM campus. Midshipmen on scholarship or in advanced standing status also are required to attend a four- to six-week training period each summer. This summer training introduces midshipmen to the fleet and to the life of a junior Naval Officer. The summer training period also provides an orientation to each of the different warfare specialties available upon graduation (aviation, surface, submarine, and the Marine Corps).

All Navy Option scholarship students are required to complete one year of calculus by the end of their sophomore year, and one year of calculus-based physics by the end of their junior year. Navy Option college program students must complete one year each in mathematics and physical science. One course on World Cultural Awareness, one year of English, and either an American Military History or National Security Policy course also are required for all NROTC students.

All scholarships are awarded on the basis of merit and personal qualifications. Neither a Parents' Confidential Financial Statement nor a standard FAF is required for consideration for Naval ROTC scholarships.

For more information, contact the Department of Naval Science at Marquette University, (414) 288-7076, or visit our website at www.Marquette.edu/rotc/navy.

Off-Campus Courses

UWM offers a variety of courses beyond the boundaries of its East Side campus. An extensive program of off-campus instruction makes regular UWM courses available in community locations throughout the Milwaukee area and on other University of Wisconsin System campuses.

Education Outreach Activities. The School of Education offers off-campus courses at the undergraduate and graduate levels. Information on the School's courses, workshops, and other off-campus educational activities may be obtained from the Education Outreach Office, Enderis Hall, Room 579, phone (414) 229-5255.

Online and Blended Learning. UWM offers an extensive array of fully online and "blended" (partially online/partially in-person) courses and programs at both the graduate and undergraduate levels. For more information, go to uwm.edu/online.

Office of Undergraduate Research

Bolton Hall, Room 192
(414) 229-2666
uwm.edu/our

The Office of Undergraduate Research is a centralized location for undergraduates seeking on-campus research opportunities and faculty members seeking enthusiastic, motivated undergraduate students with whom to collaborate. OUR programs that promote this collaborative work are the Undergraduate Research Opportunity Program (UROP), which pairs students with faculty research mentors for academic credit, and the Support for Undergraduate Research Fellows (SURF) program, which enables faculty research mentors to co-apply with top-performing students to provide an hourly wage for the student's work on a faculty-led research project.

Also included under the OUR umbrella of offerings are travel grants to support undergraduates who are presenting their work at national conferences and the UR@UWM Summer Research Program for first-year students. Interested students can apply to get involved at the website above or can stop by the OUR office in Bolton 192 for more information.

The Roberto Hernández Center (RHC)

Bolton Hall, Room 183
(414) 229-6156
uwm.edu/robertohernandezcenter

The Roberto Hernández Center is committed to increasing the presence of Latinos at UWM, specifically students, faculty, and academic staff. One of its main goals is to provide effective advising and mentoring to Latino students to foster their retention and to guide them to completion of their degree requirements. The Center is committed to developing and expanding Latino community outreach programs through interactions and partnerships with other organizations. The RHC also seeks to promote and validate research on Latino culture.

The RHC houses two programs that serve Latino students on campus: Student Recruitment and Community Outreach, and Advising and Academic Services. The RHC also assists the College of Letters and Science in coordinating the Latino Studies Certificate Program.

Advising and Academic Services can help you with admission to the University and to register for classes, apply for scholarships, and complete financial aid forms. AAS can also help you obtain tutorial assistance, locate services for solving academic or personal problems, find organizations and programs on campus to support your goals, and help you learn more about your career opportunities.

Institute for Service Learning (ISL)

Holton Hall, Room G30
(414) 229-2348
uwm.edu/community

Service learning programs bring students out of their classrooms and into the community for experiences that offer them a chance to enrich their academics while making a meaningful contribution to community organizations. Through their work, students gain a deeper understanding of course content along with a greater awareness of societal needs and civic responsibility.

Service learning courses are available for **all** undergraduate students. For additional information, please contact the ISL office or visit the website.

Latino Studies Certificate Program (LSCP)

Enrique Figueroa, Coordinator
Bolton Hall, Room 272
(414) 229-6156

The Latino Studies Certificate Program (LSCP) provides the opportunity for students to focus on Latino issues in the United States. The program utilizes an interdisciplinary approach to examine the experiences, cultures, and social conditions of Latinos. In consultation with the program advisor, Latino Studies students select courses from the humanities, social sciences, and education. Many Latino Studies courses satisfy other University and college requirements. Students who have completed Latino Studies courses prior to program enrollment are granted appropriate credits toward satisfying certificate requirements. Upon completion of all course requirements, students are issued a Certificate in Latino Studies by the College of Letters and Science, and a notation stating that the program has been completed is added to their transcripts.

Southeast Asian American Student Services (SAASS)

Bolton Hall, Room 160
(414) 229-5282
(414) 229-3921

Southeast Asian American Student Services (SAASS) provides academic support for Southeast Asian (Cambodian, Hmong, Laotian, and Vietnamese) heritage students attending UWM. Support services include academic advising, admissions and financial aid procedures, tutorial referrals, career information, cultural enrichment, and personal support. To serve students effectively, SAASS works closely with faculty/staff, students, and Southeast Asian community organizations in Milwaukee and Wisconsin.

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ADDITIONAL INFORMATION

Pursuant to the U.S. Department of Education's Program Integrity Rule, the University of Wisconsin-Milwaukee is required to provide all prospective and current students with the contact information of the state agency or agencies that handle complaints against postsecondary educational institutions offering distance learning or correspondence education within that state. Students are encouraged to utilize the institution's internal complaint or review policies and procedures through the Dean of Students Office (uwm.edu/deanofstudents/assistance/complaints-and-grievances; 414-229-4632; osl@uwm.edu) or Office of the Provost (414-229-3203) prior to filing a complaint with the state agency or agencies. [This link provides a list of contacts in each state with whom a student may file a complaint.](#)

The following states require UWM to publish specific statements regarding the offering of online programs in their states:

Alabama

The University of Wisconsin-Milwaukee is authorized by:

Alabama Commission on Higher Education
P.O. Box 302000
Montgomery, AL 36104-3758

Alaska

UW-Milwaukee is exempt from authorization under AS 14.48 and 20 AAC 17.015 because the programs are online or distance delivered and do not have a physical presence in the state.

Georgia

UWM is registered with the Georgia Nonpublic Postsecondary Education Commission and is subject to the complaint procedures posted on the GNPEC website (gnpec.org/consumer-resources).

Indiana

The University of Wisconsin-Milwaukee is authorized by:

The Indiana Board for Proprietary Education
101 W. Ohio Street, Suite 670
Indianapolis, IN 46204-1984

Maryland

UWM is registered with the Maryland Higher Education Commission. UWM is subject to investigation of complaints by the Office of the Attorney General of the Maryland Higher Education Commission (MHEC). Contact information for

MHEC:

Maryland Higher Education Commission
6 N. Liberty Street, 10th Floor
Baltimore, Maryland 21201

Minnesota

UW-Milwaukee is registered as a private institution with the Minnesota Office of Higher Education pursuant to Minnesota Statutes, sections 136A.61 to 136A.71. Registration is not an endorsement of the institution. Credits earned at the institution may not transfer to all other institutions.

Washington

The University of Wisconsin-Milwaukee is authorized by the Washington Student Achievement Council and meets the requirements and minimum educational standards established for degree-granting institutions under the Degree-Granting Institutions Act. This authorization is subject to periodic review and authorizes the University of Wisconsin-Milwaukee to offer field placement components for specific degree programs. The Council may be contacted for a list of currently authorized programs. Authorization by the Council does not carry with it an endorsement by the Council of the institution or its programs. Any person desiring information about the requirements of the act or the applicability of those requirements to the institution may contact the Council at P.O. Box 43430, Olympia, WA 98504-3430.

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José Delgado
Lisa Erickson
Tony Evers
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Michael M. Grebe
Eve Hall
Tim Higgins
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Janice Mueller
Drew Petersen
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S. Mark Tyler
Gerald Whitburn

University of Wisconsin System Administration

Ray Cross, President
James P. Henderson, Vice President for Academic and Student Affairs
Robert G. Cramer, Vice President for Administration
Julie Gordon, Interim Vice President for Finance
Jessica Tormey, Interim Vice President for University Relations

The University of Wisconsin-Milwaukee Administration

Mark Mone, Chancellor
Johannes Britz, Provost and Vice Chancellor, Academic Affairs
Jim Hill, Senior Student Affairs Officer
Tom Luljak, Vice Chancellor, University Relations and Communications
Robin Van Harpen, Vice Chancellor, Finance and Administrative Affairs
Patricia Borger, Vice Chancellor, Development and Alumni Relations
Joan Prince, Vice Chancellor, Global Inclusion and Engagement

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Scott Emmons, Peck School of the Arts
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Alan Shoho, School of Education
Brett Peters, College of Engineering and Applied Science

Val Klump, School of Freshwater Sciences
Marija Gajdardziska-Josifovska, Graduate School
Ron Cisler (Interim), College of Health Sciences
Tomas Lipinski, School of Information Studies
Dave Clark, (Acting) College of Letters and Science
Kim Litwack, (Interim) College of Nursing
Ron Perez (Interim), Joseph J. Zilber School of Public Health
Stan Stojkovic, Helen Bader School of Social Welfare
Paula Rhyner (Interim), School of Continuing Education

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ADMINISTRATIVE POLICIES

The University of Wisconsin-Milwaukee is an equal opportunity, affirmative action institution, and does not discriminate on the basis of race, sex, color, creed, national origin, disability, or any other protected status recognized by Wisconsin or federal law. In 1990, s. 36.12, Wisconsin Statutes, was enacted, which provides as follows: No student may be denied admission to, participation in, or the benefits of, or discriminated against in any service, program, course, or facility of the (UW) System or its institutions or centers because of the student's race, color, creed, religion, sex, national origin, disability, ancestry, age, sexual orientation, pregnancy, marital status, or parental status.

University policies also prohibit harassment or retaliation against complainants on any of these bases. These policies are in compliance with all relevant Wisconsin and federal laws, rules, and regulations.

Questions about the application of any of these policies, or complaints about violations, may be directed to the appropriate admitting or employing office, or to the campus Office of Equity and Diversity Services, Mitchell Hall, Room 359, or phone (414) 229-5923.

An information booklet on the UWM Disciplinary Guidelines and the appropriate sections of the Wisconsin Administrative Code covering conduct on University lands and student disciplinary procedures is available in the lobby of Mellencamp Hall and in several offices, including the Office of the Dean of Students, Mellencamp Hall, Room 118. Board of Regents rules require adherence by students and others present on the campus. Failure to comply with these rules may subject students to disciplinary action and to civil forfeitures. State of Wisconsin Statutes and Federal Law also apply on the campus of the University.

Under the provision of the Family Educational Rights and Privacy Act of 1974, a student is entitled to review the education records related to the student that the University maintains. A student may request a hearing regarding any alleged inaccurate, misleading, or inappropriate information contained in the record.

The University may not disclose information from a student's record to a third party unless the student gives consent, or unless permitted to do so by the Family Educational Rights and Privacy Act of 1974. A student may contact the Undergraduate Records Office or the Office of the Dean of Students, both in Mellencamp Hall, for further information.

You may restrict the release of your address and phone number and other limited information by checking a box on your registration form. If you do this, your address and phone number will not appear on most mailing lists used by UWM student organizations, campus departments, or on mailing lists obtained from UWM by non-University groups.

The various academic units at UWM have set up appeals and grievance procedures. Students may avail themselves of these procedures by contacting a department chair, the dean's office of the school or college from which the course was taken, or the Office of the Dean of Students.

UWM Equal Opportunity Policy

It is the policy of the University of Wisconsin-Milwaukee to provide equal opportunity and prohibit discrimination and harassment for its employees and students in all programs, activities, and employment. UWM is committed to actively implement all federal and state equal opportunity and affirmative action laws, executive orders, policies, plans, rules, and regulations.

UWM's Discriminatory Conduct Policy (Including Sexual Harassment) (S-47) defines discrimination as conduct that (1) adversely affects any aspect of an individual's employment, education, or participation in activities or programs at UWM; and (2) is based on one or more characteristics of the individual that are protected under federal, state, or local laws. Characteristics that are protected under federal, state, or local law (protected statuses) may include age; ancestry; arrest or conviction record; color; disability; gender identity/expression; identity as a veteran, disabled veteran, or Vietnam veteran; marital status; membership in the National Guard, state defense force, or any other reserve component of the military forces of the United States or this state; national origin; pregnancy; political affiliation; race; religion; sex; sexual orientation; or use of lawful products off the premises during non-working hours (e.g., smoking cigarettes).

Harassment is a form of prohibited discrimination. UWM defines harassment as conduct that (1) is of any type (oral, written, graphic, or physical); (2) is directed towards or against a person because of the person's protected status (as listed above); and (3) unreasonably interferes with the individual's work, education, or participation in activities or programs at UWM, or creates a working or learning environment that a reasonable person would find threatening or intimidating. Sexual harassment includes unwanted sexual advances, requests for sexual favors, and other verbal and physical conduct of a sexual nature.

Speech or expressive behavior (e.g., use of visual, recorded, or written materials) used in the context of an instructional setting may be found to constitute harassment only if the speech is persistent, pervasive, and not germane to the subject matter, or so singularly severe as to create a hostile environment. Protected Expressive Behavior in an instructional situation is explained in UWM Selected Academic and Administrative Policies No. S-44, Public Expression of Opinion.

In addition, the University prohibits retaliation against individuals who engage in protected activities under the policy. Retaliation is defined as employment or academic decisions that are made because a student, employee, or applicant for employment has made a complaint, assisted with or served as a witness in an investigation, or instituted proceedings alleging discrimination.

UWM maintains a written affirmative action plan in order to meet its commitment to the principles of equal opportunity and affirmative action. The plan is available to all persons for inspection and is on reserve in the University Library and on UWM's website.

To protect the rights of employees and students, numerous grievance procedures have been developed on this campus. Although all grievants are encouraged to resolve complaints by working with the relevant parties and administrators, inquiries involving complaints of discrimination or harassment based on protected class status may be directed to the UWM Office of Equity and Diversity Services, Mitchell Hall 359, (414) 229-5923.

Hate/Bias Incident Reporting

In the last few years, there has been an increased focus on the reporting of hate- and bias-motivated incidents on university campuses across the nation. UWM defines a hate- or bias-motivated incident as any disruptive conduct (oral, written, graphic, or physical) that is against an individual, or individuals, because of their actual, or perceived, race, color, national origin/ancestry, religion, sex, age, disability, sexual orientation, gender identity/expression, veteran and National Guard status, marital status, pregnancy, political affiliation, or arrest/conviction record. If you believe the incident involves criminal conduct, please call 911 or 9-911 (UWM campus police) from a UWM phone, in addition to completing the [Hate/Bias Incident Reporting Form](#). You may use this form to report any hate/bias incident that has

occurred 1) on UWM property, buildings, or housing; and/or 2) at UWM-sponsored events or activities, regardless of location.

University Policies and Programs Concerning Illicit Drugs and Alcohol

Consistent with the federal Drug Free Schools and Communities Act, the University of Wisconsin-Milwaukee (UWM) maintains a comprehensive alcohol and other drug abuse prevention program. This includes interventions that target at-risk individuals, programs that target the student body as a whole, and environmental-level strategies that impact the college and surrounding community. UWM prohibits the unlawful possession, use, distribution, manufacture, or dispensing of illicit drugs and alcohol on university property or as part of university activities. Each semester, students receive information that describes pertinent laws, rules, and sanctions, as well as the health effects of abuse, and a list of treatment resources.

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For the latest admissions information, visit our website at <http://uwm.edu/admission/>

*Office of Undergraduate Admissions
Vogel Hall, 3253 North Downer Ave.
(414) 229-2222*

Undergraduate Admission: General Information

If you wish to apply as a degree candidate (freshman, re-entry, or transfer student), visit the University of Wisconsin System application website at <https://apply.wisconsin.edu>. You will need to supply the necessary documents like test scores and transcripts separately. We will accept transcripts and test results submitted electronically from a vendor or testing agency. You will be notified of any additional materials needed to complete your application (including what we still need from you to make an admission decision) and can track the receipt of these documents as well as the progress of your application review online via PAWS (Panther Access to Web Services) at <paws.uwm.edu>.

If you wish to apply as a non-degree or summer guest student, you also may use the electronic applications available at <https://apply.wisconsin.edu>. If you require a paper application, you can download a PDF of any applications from this site.

Students may get in touch with us at <http://uwm.edu/contact/> for easy access to an online information request form, as well as phone, email, live chat, and social media contact information. We are able to respond to any questions about visiting UWM, the application process, materials required, which application to submit, or any other concerns you might have.

Freshman Admission Policy Statement

UWM will consider applicants who present evidence of appropriate preparation and potential for intellectual development. Both academic and non-academic factors will be assessed in an individualized, comprehensive applicant review. Academic factors considered include high school graduation or the equivalent, completion of an appropriate college preparatory curriculum, and evidence of academic ability and readiness based on the applicant's high school record and performance on standardized tests. Relevant non-academic factors include characteristics or experiences that will contribute to UWM's diversity, support the University's educational mission, and provide additional evidence of the applicant's academic potential.

Freshman Admission Standards

Freshman applicants will typically demonstrate an appropriate level of preparation and potential by providing evidence of the following:

1. High school graduation or its equivalent

Graduation from a recognized high school or its equivalent (e.g., high school equivalency certificate or a diploma based on the GED or Wisconsin High School Equivalency Examination) is required. All freshman applicants must submit an official high school transcript with their application.

Those who have completed the General Educational Development or Wisconsin High School Equivalency Examination are required to submit official test results, in addition to ACT or SAT test results, and an official transcript of any high school work they have completed. Applicants who are home-schooled, who have completed an alternative high school curriculum, or whose secondary school credentials are otherwise non-traditional, will be given full consideration for admission but may be required to present additional evidence demonstrating academic preparation.

2. Completion of an appropriate college preparatory curriculum

Satisfactory completion of at least 17 credits (1 credit = 1 year) of high school courses, distributed as shown in the following chart, is the minimum expectation. Additional coursework beyond this minimum level is strongly encouraged and will increase the applicant's likelihood of academic success at the university. Some academic programs have additional academic preparation requirements.

Course	Credits Required
English Including at least 3 years of literature and composition.	4
Mathematics College prep courses at or above algebra level. Additional math is strongly recommended, particularly for engineering and science majors.	3
Natural Science Including at least 1 year of lab science.	3
History/Social Science	3
Additional Academic Courses May be chosen from any of the above areas, foreign language,	2

speech/communication, or other academic areas. At least two years of foreign language is strongly recommended.

Additional Academic Courses or Other Electives

2

Chosen from above areas, computer science, fine arts, or other appropriate courses.

Total

17

3. Evidence of academic ability and readiness as demonstrated by academic performance in high school

All relevant academic factors are considered, including grades and grade point average; high school class rank (if available); choice of curriculum; and strength of the academic program relative to the course offerings available to the student in the high school.

4. Evidence of academic ability and readiness as demonstrated by performance on standardized test

All freshman applicants except those who are age 21 or older the semester they wish to enter UWM must submit official ACT or SAT scores. Students over the age of 21 may submit standardized test scores if they so desire. In some cases, applicants may be asked to undergo additional testing or supply additional materials before an admission decision is made.

5. Additional factors considered

Additional factors will be considered as part of the application review process. These might include, but are not limited to: evidence of leadership, creativity, special talents or abilities; membership in an underrepresented racial or ethnic group; veteran status; involvement in community service; educational or economic disadvantage; evidence of motivation and maturity; or other relevant factors that provide evidence of the applicant's readiness for university-level study. If we need to obtain additional information from you, we will communicate this to you after the initial review of your application.

Applicants lacking some of the specific academic qualifications listed in sections 1-4 above may be offered admission if, on the basis of other factors, they appear to have a reasonable probability of success.

Application Deadlines

UWM begins accepting undergraduate applications on September 15 for the following fall term, with a priority application deadline of March 1. After the priority deadline, the Office of Undergraduate Admissions will continue to review applications on a case-by-case basis until enrollment capacity has been reached. Applications for the spring term (classes start in January) are typically accepted until December 15. **However, some programs have earlier deadlines and/or additional requirements. See below and check our website for up-to-date information.**

It is to your advantage to apply early so that you receive important information as soon as possible, not to mention scholarship consideration.

Variations in Admission Requirements and Deadlines

Architecture and Urban Planning

Admission to the School of Architecture and Urban Planning is selective and competitive. Most students admitted to the School will have a high school cumulative grade point average of 3.0 on a 4.0 unweighted scale and have a composite ACT score of at least 23 (SAT 1070). The application priority date for Architecture and Urban Planning is **March 1** (for the subsequent fall term) or **December 1** (for the spring term), but earlier application is advised. Performance on standardized tests, grade point average, and class rank is only a portion of the admission decision. Other factors include

the applicant statements, rigor of high school curriculum, letters of recommendation, and extra-curricular activities.

Engineering and Applied Science

Admission to the College of Engineering and Applied Science is selective. The primary review factors are the strength and quality of the high school curriculum, high school class rank if available, grade point average, and ACT or SAT results. Well-prepared applicants will have four years of high school mathematics at the level of algebra and above and four years of natural science including biology, chemistry, and physics. Relevant non-academic factors are also considered. See the CEAS section of this *Catalog* for additional specific information.

Nursing

High school science units must include at least one year of high school chemistry. Admission to the pre-nursing program is selective. The application priority date is **March 1** for fall applicants. Apply as early as possible; applications will be accepted only until program capacity has been reached.

Peck School of the Arts

- **Dance:** An audition is required for entry into both the Dance BFA and BA. Audition dates are scheduled during the fall, spring, and summer terms. More information at: uwm.edu/arts/dance.
- **Art & Design:** The Department of Art & Design requires all incoming students to submit a portfolio for review. The portfolio is required in order to be considered for the Art & Design Incoming Student Scholarship. Portfolio deadlines are **October 15** (for spring admission) and **March 1** (for summer or for fall admission with consideration for scholarships). More information at: uwm.edu/arts/art-and-design.
- **Music:** Students wishing to enter the UWM Music Department must interview and/or audition for admittance to any of the Music degree programs. You must arrange for an instrument or voice audition in person, online, or with a tape/CD submission. More information at: uwm.edu/arts/apply.

Application Process

It is strongly recommended that you apply online at <https://apply.wisconsin.edu/>. Most applicants find it faster and more convenient, and applications are received and processed much more quickly. To apply for admission as a new freshman, refer to [Undergraduate Admission: General Information](#).

For the latest admissions information, visit the UWM website at uwm.edu/undergrad-admission or call the Office of Undergraduate Admissions at (414) 229-2222.

Four-Year Graduation Guarantee

Many students choose to attend classes part time, but for others, attending full time in order to obtain their degree as quickly as possible is the top priority. If that is your goal, UWM's Four-Year Graduation Guarantee may be for you.

To qualify, students must enter UWM as new freshmen during the fall term and must have appropriate academic preparation and placement test scores. They then sign a contract agreeing to satisfy other specified academic progress requirements while following the prescribed program of study. UWM, in turn, guarantees that students who fulfill these requirements will be able to complete their undergraduate degree within four years of initial enrollment at UWM. This program is available within all of UWM's baccalaureate programs, although specific requirements may vary. Your academic advisor can provide more information about this option, or contact the academic advising office of the school or college to which you will be seeking admission.

Special Admission Programs for Students Still Enrolled in High School

The High School Special Student Program and the Youth Options Program are designed to allow qualified high school juniors and seniors to enroll in university courses concurrently with high school classes. Applicants must generally rank in the upper 10% of their high school class and have completed an appropriate pattern of academic courses. For further information, contact your high school guidance counselor or the UWM Office of Undergraduate Admissions at (414) 229-2222. You also may want to review the information available on the website at uwm.edu/undergrad-admission/student-type/new-freshmen.

Admission to Pre-professional Programs

Students pursuing pre-professional programs in the School of Architecture and Urban Planning, Peck School of the Arts, Sheldon B. Lubar School of Business, School of Education, College of Engineering and Applied Science, College of Health Sciences, College of Nursing, and Helen Bader School of Social Welfare are admitted directly into those schools and colleges and are advised there. However, admission to a pre-professional program does not guarantee subsequent admission to the professional program or major.

Admission to the professional program/major occurs only after a student has completed the specific pre-professional requirements outlined in the school and college sections of this catalog. Admission to the pre-professional program does not imply or guarantee that a student will be able to enter or complete a professional program/major within any specific time period and, in fact, admission to some professional programs/majors is very competitive. Enrollment in required courses is subject to limitation.

Requirements for employment, licensing, or professional organizations: Students should be aware that some professions and occupations are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records prior to acceptance by the placement site. Students are responsible for obtaining the information necessary to become knowledgeable about special requirements such as these and should plan their studies accordingly.

Transfer Student Admission and Acceptance of Transfer Credit

TRANSFER ADMISSION STANDARDS

Admission to UWM as a transfer student typically requires at least an overall C (2.0 on a 4.0 scale) grade point average on 12 or more **transferable** credits. However, this is the minimum standard. Some academic programs have higher standards and/or additional requirements (see examples below).

Each transfer application receives a comprehensive review. In addition to reviewing the student's record of post-secondary work for evidence of appropriate academic preparation, other factors considered may include the student's high school record, test scores, grade patterns, and evidence of motivation, maturity, and/or other relevant non-academic information.

Additional Specific Requirements

Transfer admission to the **College of Engineering and Applied Science**, the **School of Architecture and Urban Planning**, and the **College of Nursing** is selective. Many programs in the **Peck School of the Arts** have audition or portfolio requirements. In addition, admission to many other individual programs/majors is competitive and subject to capacity limitations, with higher standards or additional criteria considered. For more details, check the admission requirements listed for the particular academic program in which you are interested.

International students have additional application requirements; see that section for details.

APPLICATION PROCESS

Apply electronically via the University of Wisconsin System electronic application website at

<https://apply.wisconsin.edu>. If you apply electronically, you will need to submit the necessary supporting documents separately. Electronic transcripts sent from schools and third party vendors should be sent to: undergraduateadmissions@uwm.edu. Transfer applicants must submit, at minimum:

- a completed application form;
- official high school transcript(s);
- official transcript(s) from any post-secondary institution(s) attended; and
- the application fee (if required).

You will be notified of any additional materials needed to complete your application. Complete instructions and information about applicable deadlines are available on the website.

If you are unable to apply online, a PDF may be downloaded from <https://apply.wisconsin.edu> to print and mail in.

The Registrar's Office will review your prior college coursework and post your transfer credit equivalencies to your PAWS account. This process can take 1-2 weeks following admission to the university, so it is important that you apply early in order to have this information in time for academic advising and registration prior to your desired term of enrollment (see dates and deadlines below).

Recommended Filing Dates for Transfer Students

Filing and completing your application for admission (including all transcripts and the application fee) as early as possible is recommended so that transfer students are able to receive an appointment to register for classes at approximately the same time as continuing students. In general, a decision on a complete application is made by the Office of Undergraduate Admissions within 2-4 weeks, and transfer credit evaluations are completed within four weeks of the date of admission. Recommended dates by which a completed application should be on file are as follows:

February 15 (summer and fall terms) and **September 15** (spring term).

Application Deadlines for Transfer Students

Fall term: UWM begins accepting undergraduate applications on September 15 for the following fall term, with a priority deadline of March 1. After the priority deadline, the Office of Undergraduate Admissions will continue to review applications on a case-by-case basis until enrollment capacity has been reached.

Spring term: Applications for the spring term (classes start in January) are typically accepted until December 15. **However, some programs have earlier deadlines and/or additional requirements. See below and check our website for up-to-date information.**

Earlier deadlines apply for certain programs and applications received after enrollment capacity has been reached may not be reviewed. The application priority date for Nursing and Architecture and Urban Planning is **March 1** (for the subsequent fall term) or **November 1** (for the spring term). For Art & Design or Music, apply by **March 1** for scholarship consideration. Check our website at uwm.edu/undergrad-admission for up-to-date information and for applicable deadlines for other terms.

Transfer Credit Acceptance

Credit is generally awarded for relevant and appropriate college-level coursework successfully completed at institutions accredited by a **regional accrediting association**. Credit also may be awarded for college-level work successfully completed at degree-granting institutions accredited by other **national accrediting organizations** that are recognized by the Council for Higher Education Accreditation (CHEA), assuming the provisions outlined below also are met. (Foreign institutions must be recognized by the Ministry of Education, or equivalent, of the home country.)

In order for credit to be awarded, courses must typically be similar in nature, level, and content to a course in UWM's undergraduate curriculum, and be applicable to one of UWM's academic programs at the baccalaureate level. Credit generally is not awarded for continuing education coursework or for courses that are remedial, vocational, technical, or doctrinal in nature.

Additional transfer credit may be awarded to students who enter specific programs for which UWM has established articulation agreements or other program-specific transfer credit agreements, with a partner institution.

Seventy-two (72) credits is the maximum total number of credits that may be awarded for coursework earned at one or any combination of two-year (associate degree level) institution(s).

In addition to credit for courses completed at other schools, students can also receive transfer credit for previous education or training or by testing on their current knowledge. See uwm.edu/transfer-information/transfer-credit/ for more information.

Credit Transfer from the Wisconsin Technical College System (WTCS)

Students enrolled in the Wisconsin Technical College System who wish to continue their education at UWM may transfer credits toward their bachelor's degree in the following ways:

- Students enrolled in a WTCS liberal arts program (at present, these are offered at Chippewa Valley Technical College, Madison Area Technical College, Milwaukee Area Technical College, Nicolet Area Technical College, and Western Technical College) may be eligible to transfer up to 72 credits toward the baccalaureate degree.
- Students enrolled at other WTCS programs or campuses may be eligible to transfer some appropriate general education coursework toward the baccalaureate degree.
- There also are many program-specific transfer credit agreements governing acceptance of credit from some WTCS programs. For details, uwm.edu/transfer-information/transfer-credit/.
- The UWM Office of Undergraduate Admissions maintains an office at the MATC-Milwaukee downtown campus in order to assist students with transfer-related questions. For more specific information, get in touch at uwm.edu/contact for easy access to an online information request form, as well as phone, email, live chat, or social media contact information.

For more information about these or other transfer opportunities, students should consult with their Wisconsin Technical College advisor, the UWM Office of Undergraduate Admissions, or the UWM Registrar's Office.

Another helpful resource is the online Transfer Information System (TIS), located at tis.uwsa.edu. TIS shows students how courses can transfer from one public Wisconsin institution to another.

International Student Admission

UWM's Center for International Education is responsible for the admission of students with significant education from outside the U.S., and any student who requires a student visa to study at UWM

Applicants are encouraged to apply online at <https://apply.wisconsin.edu/>. Application materials are located on the Center for International Education website at uwm.edu/cie/international-admissions/ or can be requested via email to iss@uwm.edu. Prospective students may visit the Center for International Education, located in Garland Hall, Room 138, or write:

The Center for International Education, International Student and Scholar Services
Garland Hall 138
P.O. Box 413
University of Wisconsin-Milwaukee
Milwaukee, WI 53201-0413

Application materials sent via express mail should be addressed to:

The Center for International Education, ISSS
2441 E. Hartford Ave.
Milwaukee, WI 53211
The telephone number is (414) 229-4846.

Students are encouraged to apply a year in advance of the term in which they wish to enroll at UWM. The length of the application process can vary depending on how quickly the applicant provides all required materials to complete the application. The following materials are required to be considered for admission to UWM.

1. A completed and signed application form.
2. A \$90 fee (\$50 state-required application fee plus a \$40 evaluation fee for applicants with non-U.S. academic credentials). These fees cannot be waived, refunded, or applied to any other University fee or bill. Fees are subject to change.
3. Original or officially certified copies of all grade reports, transcripts, or marks sheets for all secondary and higher studies undertaken, as well as original or officially certified attested copies of all academic diplomas, certificates, and national or other major examination results. Official records must be submitted in the native language and must be accompanied by an official English translation. Notarized copies are not accepted. Whenever possible, academic records must be sent directly to the Center for International Education from the issuing institution.
4. All non-native speakers of English are required to meet the University's English proficiency requirement. Information on how to meet this requirement is available on the Center for International Education website: uwm.edu/cie/international-admissions/
5. Additional departmental requirements may be required for certain applicants to particular programs. Please inquire with the Center for International Education for more information.

After admission to UWM, International students who require an F or J visa must submit proof that they have adequate financial support to live and study full time at UWM. Updated financial figures can be found at uwm.edu/cie/. Financial verification is required before the University will issue the U.S. government form (Form I-20 or DS-2019) necessary to obtain a foreign student visa or to transfer from another U.S. institution.

Re-entering and Re-admitted Students

Students who have not been enrolled at UWM for more than two semesters must file a re-entry application to return to the University. Official transcripts of all college work taken during the absence from UW-Milwaukee must be submitted. This application is available at <http://uwm.edu/undergrad-admission/forms-resources/>.

UWM begins accepting undergraduate applications on September 15 for the following fall term, with a priority deadline of March 1. After the priority deadline, the Office of Undergraduate Admissions will continue to review applications on a case-by-case basis until enrollment capacity has been reached. Applications for the spring term (classes start in January) are typically accepted until December 15. **However, some programs have earlier deadlines and/or requirements. See below and check our website for up-to-date information: uwm.edu/undergrad-admission.**

In addition to filing a re-entry application to the University, a student who has been dropped from the University because of poor academic performance must be approved for re-admission by the dean of the school or college from which the student was dropped. Students should schedule an appointment with their academic advisor to begin the school or college approval process.

For more information about re-entry procedures or to request an application form, contact the Office of Undergraduate Admissions at (414) 229-2222.

Summer Sessions Enrollment

Students admitted as degree candidates at UWM for the summer term may attend summer sessions and continue in the fall semester, provided they continue to satisfy established academic standards. Admission requirements are the same as for other semesters. Students enrolled for the spring semester automatically receive registration information for summer sessions.

New freshmen or transfer students admitted for the fall semester also may request a change of term to the preceding Summer Session in order to begin their studies earlier at UWM. For more information about a term change, call the Office of Undergraduate Admissions at (414) 229-2222. Or go to uwm.edu/undergrad-admission/forms-resources to print off a term change form and submit it for processing.

Students enrolled at another college or university during the academic year who wish to attend UWM during the summer term only may qualify for admission as Summer Guest students. See [Non-degree Students](#) section below for specific information.

For more information about summer sessions enrollment go to uwm.edu/schedule.

Non-degree Students

There are a number of different options, described below, for students who wish to attend classes at the University but who are not seeking a degree. Please note that in most cases, non-degree students are not eligible for financial aid.

Non-Degree Students. This program is designed for individuals interested in taking undergraduate courses for personal enrichment, career change, preparation for admission to graduate school, or as a first step into a degree program. Non-degree students earn college credit for courses successfully completed and pay tuition at the same rate as degree-seeking students.

If you wish to be admitted as a non-degree student and do not have a bachelor's degree, you must have graduated from a recognized high school at least one year prior to the desired semester of enrollment. All students out of high school less than two years must present official transcripts and meet regular admission requirements for undergraduate degree students.

If you already have completed an undergraduate degree at an accredited institution, you must still complete the non-degree ("Special Student") application form, but you will not be required to submit transcripts in order to be admitted.

Non-degree students need to maintain a C grade point average in order to continue in good standing. Individuals who enter a degree program at UWM in the future will be able to transfer all undergraduate credits into their program. With a few exceptions, no credits earned will be considered now or in the future as graduate credits.

Many courses are open to non-degree students, but there are some restrictions in high-demand areas. Information on courses open to non-degree students can be found in the *Schedule of Classes* at uwm.edu/schedule/.

Admission and enrollment information and advising services for non-degree students are available in the Office of Undergraduate Admissions, Vogel Hall, 3253 N. Downer Ave., (414) 229-2222.

Summer and UWinteriM Guest Students. Most Guest students attend another college or university during the academic year, but take summer or UWinteriM courses at UWM for personal enrichment or for credit transfer to the institution where they are pursuing a degree. This category also is used for individuals who have an undergraduate degree but wish to enroll during a summer or UWinteriM term only. Guest students may qualify for admission without providing official university transcripts. For more information, contact the Office of Undergraduate Admissions, Vogel Hall, 3253 N. Downer Ave., (414) 229-2222.

School/College Non-degree Students. Students who do not wish to enroll in a degree program, but who want to take courses in a specialized area of study such as business administration, engineering, or certain majors within the College of Letters and Science, may be admitted as Special Students by a specific UWM school or college.

Non-degree students admitted under these classifications may be eligible to enroll in certain high-demand courses that are not open to other non-degree students. In the College of Letters and Science, students who have not completed an undergraduate degree are expected to meet the regular requirements for admission and submit transcripts. For more information, contact the specific UWM school or college in which you wish to enroll.

Education Non-degree Students. Students with bachelor's degrees who are interested in pursuing a teacher certification program may be admitted as Education Certification Non-degree ("Special") Students. Admission to the teacher certification program requires approval from the School of Education. For more information, contact the Curriculum and Instruction Office at (414) 229-4904.

Audit-Only Students/Auditors. Students may opt to audit courses rather than enroll for credit. Students who are only auditing courses will typically pay lower fees for audited courses and in some cases may audit courses free of charge, subject to space availability and instructor approval. Additional information about auditing classes is found in this catalog in the "Academic Opportunities" section. Or, contact the Office of Undergraduate Admissions, Mellencamp Hall, Room 212, (414) 229-2222.

Information for Out-of-State Students

Residency. Residency, for tuition purposes, is governed by Wisconsin statute. It is the mutual responsibility of the University and the student to make certain that he or she is correctly classified as a resident or non-resident for tuition purposes. If an error is discovered, the student will be notified that he or she must pay the non-resident portion of the tuition immediately. Students who question their status should contact the Office of Undergraduate Admissions in Mellencamp Hall, Room 212, (414) 229-4672. A student who wishes to appeal the nonresident classification should request a non-residency appeal form prior to the tuition due date for the semester. For more information regarding residency, go to the website at uwm.edu/undergrad-admission/student-type/out-of-state/.

Minnesota/Wisconsin Reciprocity Agreement. Minnesota residents may be eligible to participate under the Minnesota/Wisconsin Reciprocity Agreement. Students certified under this program pay tuition at a special rate that is less than non-resident tuition. A certification year runs from July 1 through June 30, although degree students are normally certified once during the full duration of their academic career if they remain continuously enrolled.

Persons not certified by the date on which fees are due will be required to pay non-resident tuition and fees. The appropriate amount will then be refunded upon certification by the State of Minnesota Office of Higher Education Reciprocity Program. For more information, contact the State of Minnesota Office of Higher Education Reciprocity Program, 1450 Energy Park Dr., Suite 350, St. Paul, MN 55108, (651) 642-0567, (800) 657-3866, or www.ohe.state.mn.us.

Midwest Student Exchange Program. UWM participates in the Midwest Student Exchange Program (MSEP), a collaborative program that enables qualified students to attend a participating college or university in another MSEP state at a substantial discount from the usual tuition rate. Students attending UWM as part of the MSEP will pay 150% of the Wisconsin resident rate. For more information, visit www.msep.uwm.edu.

Milwaukee Advantage Program (MAP)

Illinois students are eligible to receive an additional \$1,000 award each year through the Milwaukee Advantage Program (MAP). The MAP award is renewable.

- MAP will be offered at both fall/spring terms. Spring term admits will be eligible for \$500.
- Must be enrolled full time in order to be eligible. Falling below full-time status will result in cancellation of award.

Advising and Orientation for New Students

All new students are assigned an academic advisor upon admission to UWM. New freshmen are **required** to participate

in an advising, registration, and orientation program prior to their first semester of enrollment. These programs are held during the summer for students entering in the fall semester and during January for students entering in the spring semester. A family and guest orientation program is held concurrently with the student program.

In order to be invited to an orientation, new freshmen must take their Placement Tests, complete their University Housing contract or exemption form, pay their University Housing down payment (if applicable), and pay the \$150 New Student Confirmation Deposit. More detailed information about this process will be mailed to you upon admission to the University. For more information, go to uwm.edu/admitted. Advising and enrollment programs for transfer and non-traditional students also are conducted each year. Participation is strongly encouraged. For more information, go to faso.uwm.edu.

Placement Testing

All incoming freshmen admitted to UW-Milwaukee are **required** to complete placement testing in math and English. Depending on your course of study, you also may be required to take an exam in chemistry and/or a foreign language. These tests help determine appropriate placement in your college courses and must be completed before you can enroll for classes. Transfer students and re-entry students may be required to take placement tests also, depending on previous coursework and intended degree plan. Check with your advisor to determine if you need to complete placement tests.

English Placement Test (EPT). The English placement test consists of three subtests in the following areas: English Usage, Sentence Correction, and Reading Comprehension. The English Placement test takes 90 minutes to complete.

OR

English Placement Test for Non-Native Speakers of English (EPT NNSE). If you grew up speaking a language other than English, you should take this test. As a non-native writer of English, you can complete your English writing requirement by taking English for Academic Purposes (EAP) writing courses instead of the English writing courses designed for native speakers of English. The support provided in the EAP writing courses can also help you do better in all of your university courses. This test lasts 75 minutes and includes a 50 minute essay and a 25 minute reading comprehension test. You may bring a print dictionary to check your spelling. Electronic dictionaries are not allowed.

Math Placement Test (MPT). The Mathematics Placement Test measures three different sets of skills: Math Basics, Algebra, and Trigonometry. The test takes 90 minutes to complete. Students are allowed to use a scientific calculator. Graphing calculators may not be used and will not be permitted in the testing room. **Only non-graphing, non-programmable calculators are permitted for use on this test.**

Foreign Language Placement Tests. These are tests of grammar and reading comprehension, and take 60 minutes to complete. Students who have taken French, German, or Spanish in high school and plan to continue in the same language should take the appropriate foreign language test. Students are allowed to enroll in a course one semester more advanced or one semester less advanced than the recommended one. Students may be eligible for retro-credits upon completion of that UWM course. For example, if you place into the third semester course and complete that course with a grade of B or better, you can apply to receive credits for that course in addition to the retro-credits for the first semester and second semester courses.

The Japanese language program has its own placement test administered in the Testing Center. Students who take this test are required to consult with the coordinator of Japanese prior to testing. For most other languages, students who wish to enroll in a course beyond the introductory one should confer with the relevant language coordinator. Students will be asked to complete a test administered through that particular office. For example, if you wish to be placed into the third semester course, you will be asked to take the final exam from the second semester course.

Chemistry Placement Test. The purpose of this test is to assist with placement in college-level general chemistry courses. Student preparation is assumed to include one full year of high school chemistry and one full year of high school algebra. Certain plans require completion of the Chemistry placement test if a student wants to test out of the first semester chemistry course (Chemistry 100). Check the *Schedule of Classes* for course prerequisites or contact the

Testing Center to determine if you need to complete the test. There are three parts to the test: General Mathematics, General Chemical Knowledge, and Specific Chemical Knowledge. This test is 55 minutes. **Only non-graphing, non-programmable calculators are permitted for use on this test.**

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FINANCIAL INFORMATION

- [Financing Your Education](#)
- [Military Educational Benefits](#)
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Please Note: For the latest Financial and Financial Aid Information, as well as current advising hours, please visit uwm.edu/financialaid/.

Financing Your Education

Department of Financial Aid, Student Employment, and Military Education Benefits

*Mellencamp Hall, Room 162
(414) 229-4541*

finaid@uwm.edu

uwm.edu/financialaid/

Attending college is one of the most exciting and challenging times of your life, and paying for college may be one of the largest expenditures you ever make. But college is not just an expenditure, it is an investment – an investment in you and your future. This should be one of the best investments you ever make. The typical bachelor's degree recipient can expect to earn about 66% more over a 40-year working career than a high school graduate.

Most students (and their families) need to use a combination of tools to help finance their college education. Information is provided here and on our website to help you develop a financing plan. In addition, please feel free to contact our staff for help with any questions you may have about the process. We are confident you will find UWM very affordable as you compare your out-of-pocket costs with other colleges.

Costs

Before you can create a financing plan, you need to know how much money you will need. Unfortunately, tuition costs are often not available until mid- to late summer. However, you can look at the prior semester/year's costs and use them as an estimate. In fact, the budgets used by the Financial Aid Department are all based on estimates. If increases in expenses are anticipated, those are built into the estimates each year. You are encouraged to become familiar with the [Bursar Office](#) website, which contains detailed information on costs and how to pay your bill.

You can review University Housing cost and meal plan information on the [University Housing](#) website.

To consider the full picture of costs that may be incurred during the nine-month academic year, the Financial Aid Department develops an "Estimated Cost of Attendance" (COA) that can be found on our website. The COA itemizes

allowable costs that will be used in determining your budget if you apply for financial aid. These numbers include direct charges (those due the University) and indirect expenses you may incur. The COA is used in determining your eligibility for financial aid. Even if you don't apply for financial aid, you may find the numbers useful as a starting point in determining your own individual budget. For 2017-18, the estimated direct costs for a dependent student living on campus are \$20,094. Once you have an idea of the expense, you will want to review and finalize your resources.

Resources

Savings. Parents (and students) are encouraged to incorporate college savings as one component of their overall financial plan. While you may not be able to save enough to pay the entire cost of a college education, any savings will mean that much less that you have to worry about financing.

Families with a desire to save for future college expenses have more options than ever before. Powerful investment vehicles, including Section 529 college savings programs and Coverdell education savings accounts, were added to traditional investment options – savings accounts, taxable investment accounts, annuities, and U.S. Savings Bonds – as a means to save for college. You may wish to review www.savingforcollege.com, which contains information on the basics of saving for college. Of course, the earlier you start saving for college, the better. If the tuition bill is right around the corner, you may need to supplement any savings you have accumulated with other resources.

Scholarships. Numerous scholarship opportunities are available through the Financial Aid Office, academic departments, and UWM Foundation. For a complete listing of all campus scholarships, visit scholarships.uwm.edu. You will also find links to free scholarship searches on our website. If you are in high school, don't forget to check with your guidance counselor for potential scholarship opportunities.

Financial Aid. All students are strongly encouraged to apply for financial aid. It is free, easy, and should be done online at fafsa.ed.gov (Free Application for Federal Student Aid site). As of the 2017-18 academic year, October 1 prior to the start of the fall semester is the earliest date you can apply for the upcoming academic year, and you will be using income and tax information from one year earlier. This means you will most likely be able use the IRS Data Retrieval Tool (DRT). Using the DRT means copies of your tax returns will not be requested. It could also mean a lower chance of being selected for verification, which may cause delays in determining your aid eligibility. Many programs have a limited amount of funding and aid is awarded on a first-come, first-served basis, so file as early as possible to receive the best aid package available. In most cases, it will take a minimum of one month from the date the FAFSA is submitted to complete the process of applying for aid and having your eligibility determined. Applicants waiting until after May 1 to file a FAFSA or submit a loan application will most likely experience longer processing times. You are required to complete a new FAFSA each year.

Many parents of college-bound students don't file a FAFSA because they think they make too much money to qualify for any financial assistance. In reality, many underestimate their eligibility for financial aid. More than 80% of UWM students receive financial assistance. Minimally, most students can receive a Federal Direct Loan (with a low fixed interest rate), but only after filing a FAFSA. To receive an early estimate of your expected family contribution as well as aid eligibility, select FAFSA4caster under Thinking for College at fafsa.gov, use the [UWM Total Cost Estimator](#) or our [Net Price Calculator](#).

A student qualifies for need-based aid if the total [cost of attendance](#) (which includes tuition and fees, an allowance for room and meals, transportation, books and supplies, and personal miscellaneous expenses) is greater than their expected family contribution (EFC). Students who do not qualify for need-based aid may still be eligible for a non-need-based loan. To be eligible for financial aid, a student must also maintain satisfactory academic progress, be a United States citizen or an eligible non-citizen, be admitted to the University, and, in most cases, attend UWM on at least a half-time basis.

Financial aid falls into three broad categories, any or all of which may be offered to a student as part of his or her financial aid package: grants and scholarships (gift aid that does not need to be repaid), loans (money borrowed at low interest rates that must be repaid), and Federal Work-Study (a program that provides employment opportunities for students). For details on grants, scholarships, student employment, and loans, please visit the [various subsections of our](#)

[website](#).

Many students work while attending college. Although some students, based on the results of their FAFSA, will be offered employment through the Federal Work-Study program, many more find employment on their own – both on and around campus. Current listings can be found on Panther Jobs at <http://uwm.edu/careerplan/>.

A great way to increase the affordability of a college education is to take advantage of [federal tax breaks aimed at families/students saving and paying for college](#).

Installment Payment Plan. This plan is offered by the University through the Bursar Office to eligible students who are unable to pay their bill in full (minus any financial aid) by the tuition due date.

Additional Loans/Resources

Many students (and often their parents) have no choice but to borrow. There are steps that can be taken to reduce the amount owed at graduation. To start, reduce your budget wherever possible. You may have heard the saying, “Live like a poor college student now so that you don’t have to live like one after you graduate.” Also, make sure you take full advantage of the Federal Direct Stafford Loan program before you take out any private loans. Additional information on the Direct Loan program can be found in the [loan area of our website](#).

Parent PLUS Loan. A FAFSA must be completed before a Parent PLUS Loan can be certified. Parent PLUS Loans have a fixed interest rate that is determined in early June for the upcoming academic year. [Click here](#) for the current interest rate and fees for Parent PLUS Loans. Parents must borrow this loan through the Federal Direct Loan program. A credit check is required. The Parent PLUS application is found online at www.studentloans.gov.

Private Alternative Loan. These are private student loans, usually in the student’s name, and are not guaranteed by the federal government. Some have fixed interest rates, but most have variable rates that are typically tied to the prime rate or another benchmark. Rates range from about 6% to more than 14%. These loans should only be used as a last resort. Students usually need to apply with a co-signer.

Financial Aid Satisfactory Academic Progress (SAP) Standards

Regulations require that a student be making satisfactory academic progress (SAP) toward a degree to be eligible for financial aid. SAP consists of two components of measurement: qualitative and quantitative. A student's SAP is reviewed on a semester-by-semester basis.

Qualitative: Financial aid recipients are governed by the performance standards of the school or college in which they are enrolled. Failure to meet the required standards may make a student ineligible to continue enrollment and therefore ineligible for financial aid.

Quantitative: Students are expected to be making satisfactory "pace" toward a degree by passing two-thirds, 66.67%, of the classes they enroll in. Students' aid eligibility will be limited to 180 attempted credits for their first undergraduate degree. Students not meeting these standards will be notified of their status shortly after grades are posted after the end of each semester. For more information about the SAP policy, please refer to the [Academic Progress Standards](#) page of our website.

Military Education Benefits

Students may be eligible for military education benefits if the criteria are met under one of the programs listed: Post-9/11 Veterans Education Assistance Act of 2008, Montgomery GI Bill - Vocational Rehabilitation, and Dependent Educational Assistance. Wisconsin veterans also may be eligible for educational assistance under the Veterans Education Grant Program and the Wisconsin GI Bill. The Wisconsin GI Bill also allows for tuition and fee waivers for eligible spouses and children of Wisconsin veterans who are deceased or 30% or more disabled. For detailed

information about each program, please refer to the [UW-Milwaukee Military Educational Benefits](#) website.

Members of the National Guard also may be eligible for tuition reimbursement under the National Guard Tuition Grant Program. Guard members should contact their unit for additional information on eligibility.

Members of the Reserves or students attending school while on active duty may be eligible for Federal Tuition Assistance to help with tuition costs.

To determine qualifications under these programs or to apply, contact the staff in the Military Educational Benefits Office (located west of the Financial Aid Office) in Mellencamp Hall, Room 168A, by phone at (414) 229-6627, or via email at vets@uwm.edu.

Fees/Tuition

Rates. The base undergraduate fees/tuition rate for Wisconsin residents during the 2016-17 academic year was approximately \$9,500 for a full-time (12-18 credits) student. The full-time rate for non-residents was approximately \$19,850. These tuition amounts do not include the differential tuition charged for some programs, additional special course fees for online/distance education classes, or special course fees related to materials, equipment rental, or field trips. Consult the Bursar Office website (uwm.edu/business-financial-services/bursar) for the fee/tuition rates currently in effect.

Financial Obligation and University Credit Agreement. Students make a financial commitment when enrolling in classes at UWM. All students are required to sign a University Credit Agreement. The University Credit Agreement is now available online from the Student Center (Home Page) in PAWS. Students can click on the Credit Agreement link located in the Finances section to view and complete the agreement.

NOTE: It is recommended that students check their Finances section on PAWS to make sure they have no outstanding financial obligations with a prior due date. If there are charges with a prior due date, payments posted to PAWS will apply to those charges first.

Due Date. Payment is due on the date specified on the student PAWS account. General tuition and fee due dates are available from the Bursar Office website (uwm.edu/business-financial-services/bursar). You must view your PAWS account for exact due dates. **Failure to view PAWS does not negate the student's responsibility to pay by the due date. Past due PAWS charges are subject to late fees, finance charges, and Bursar holds.** Continued enrollment at UWM is contingent on full payment of tuition and fees and any outstanding charges on the PAWS account.

Payments on PAWS. To review PAWS accounts, view payment due dates, or make payments online, select the Finances option on PAWS at paws.uwm.edu. All PAWS charges may be paid with webCheck, an electronic check payment option. MasterCard and American Express credit cards also are accepted. A 2.5% convenience fee is charged for PAWS online credit card payment transactions. For more payment options, visit the Bursar Office website (uwm.edu/business-financial-services/bursar).

Installment Payment Plan. The Bursar Office administers the Installment Payment Plan, primarily for students who do not have sufficient funds at the start of the semester to pay in full by the fee due date. To use the Installment Payment Plan, you must pay all prior term PAWS charges plus \$100 toward fall charges (fall semester) or \$100 toward spring charges (spring semester) by the tuition date. For more information about the Installment Payment Plan, contact the Bursar Office, Mitchell 295, phone (414) 229-4914, or see the Bursar Office website (uwm.edu/business-financial-services/bursar).

Withdrawal. Charges are assessed for withdrawal beginning with the first day of the class session. **Nonattendance does not constitute withdrawal.** Students who fail to formally withdraw by dropping all classes online via PAWS or submitting a withdrawal form will remain responsible for full fees/tuition and will be subject to failing grades. In accordance with UW System policy, proof of withdrawal rests with the student.

Students' financial aid eligibility will be recalculated if they withdraw, are dismissed, or take a leave of absence prior to completing 60% of the semester. The recalculation is based on the equation "aid minus earned aid equals unearned aid." Unearned aid is returned to the funding source. When unearned aid for institutional costs is returned, students may incur a tuition, housing, or food service balance with the University. If students need to repay unearned aid for non-institutional costs, they will be contacted by the Department of Financial Aid.

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- [Concurrent Enrollment](#)
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Please Note:

For the latest enrollment information, check online at uwm.edu/onestop.

Eligibility to Enroll

You can review the full [Enrollment Eligibility Policy](#) online.

Enrollment is the process of signing up for classes, which is typically completed electronically in [PAWS](#). Continuing students are generally able to enroll in classes as long as these requirements are met:

- Enrollment in classes at UWM within the past two fall/spring terms (if not, an application for [re-entry to UWM](#) must be submitted)
- An application for graduation was not submitted for the current semester (if so, the [Registrar's Office](#) must be contacted to postpone graduation or an application must be submitted for a new program to pursue after graduation)
- No [Holds](#) exist in [PAWS](#) (view Hold details in PAWS)

New students must be officially admitted in order to be eligible to enroll. New freshmen enroll during [New Student Orientation](#). See [Advising and Orientation for New Students](#) for more information.

For more information about the application and admission processes, see the [Admission section](#) of this catalog.

Academic Advising Prior to Enrollment

All students are assigned an academic advisor upon admission to UWM and all new freshmen must meet with their advisor before they will be permitted to enroll for their first term. Academic advising prior to enrollment is strongly encouraged for all students.

These requirements are subject to change. If you are unsure of the requirements for your particular program, or do not know who your academic advisor is, consult your school/college advising office. See [Advising and Orientation for New Students](#) for more information.

Enrollment Procedures and Deadlines

The initial enrollment cycle begins in October for the winter term, November for the spring term, March for the summer term, and April for the fall term. The *Schedule of Classes* may be viewed online at uwm.edu/schedule.

Continuing students are assigned enrollment appointment times that can be viewed on PAWS. Enrollment appointments indicate the first opportunity to enroll online using PAWS after priority enrollment begins. New and re-entering students will receive enrollment information as soon as appropriate after admission. New freshmen enroll as part of New Student Orientation (see [Advising and Orientation for New Students](#)).

Students are assigned an "earliest possible" enrollment date and time based on their level and total earned credits within their level (e.g., graduate student, senior, junior, sophomore, freshman, special/non-degree student). More information may be found online at uwm.edu/onestop.

Details about the enrollment process, deadlines for a particular term, and penalties for late enrollment are described at uwm.edu/onestop. Please ensure that you are taking advantage of your earliest opportunity to enroll, as well as complying with necessary procedures and deadlines.

Change of Enrollment/Add and Drop or Withdrawal from Classes

After initial enrollment, students have the opportunity to modify their class schedule by adding, dropping, or withdrawing from classes during specific periods prior to the start of the semester. Such changes can be made without financial penalty until the start of the term (or before the start of a particular summer session). However, significant financial penalties can apply for changes made beyond the appropriate deadline, and some departments have unique deadlines and approval requirements governing how and when students may add and drop particular courses. Some academic programs also require their students to obtain specific approval for adding or dropping courses. Consult uwm.edu/schedule and uwm.edu/onestop for dates, deadlines, and procedures.

Late Enrollment and Late Payment Fees

Additional fees and penalties will be assessed of students who enroll after published deadlines or who pay their fee/tuition assessments late. Consult uwm.edu/onestop or uwm.edu/business-financial-services/bursar/ in order to avoid these penalties.

Concurrent Enrollment

Students wishing to enroll concurrently at UWM and at another college or university may do so only with the advance approval of their UWM school/college advising office.

Students enrolled part time at more than one UW campus normally pay fees separately to each campus. Students enrolled full time at one campus and part time at another generally pay full-time tuition at their full-time campus and only segregated fees at the part-time campus. However, some specialized programs or courses with special class fees may require payment above the full-time fee rate. Contact the Registrar's Office for additional details at uwm.edu/registrar/contact-us.

ID Cards

UW System regulations require that each student have a picture ID card. This card is used in the UWM Library, the Klotsche Center, the Union, and other places to verify student status and eligibility for participation or service. Students are expected to obtain their ID during their first semester at UWM. ID cards may be obtained in the PantherCard Office,

Union 143.

If you are enrolled only in online courses and wish to obtain an ID card verifying your affiliation with UWM, go to uwm.edu/onestop for more information.

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Athletics

Pavilion
(414) 229-5151
mkepanthers.com

UWM offers 15 NCAA Division I sports that are highly competitive both regionally and nationally. The teams compete in the Horizon League and the Panthers have won the league's all-sports trophy five times while also regularly ranking among the top schools in the league for academic accomplishment.

UWM men's sports offerings include baseball, basketball, cross country, soccer, swimming and diving, tennis, indoor and outdoor track, and volleyball. Women's intercollegiate sports are basketball, cross country, soccer, swimming, tennis, indoor and outdoor track, and volleyball.

To be eligible for intercollegiate competition, you must be admitted to a degree-granting program, be enrolled with 12 degree credits during competition, and maintain satisfactory progress toward a degree.

Students also can get involved in athletics by attending events throughout the year. UWM students are admitted free to all games with their student ID. Home events take place on campus in the Klotsche Center and at Engelmann Stadium, as well as off campus at the UW-Milwaukee Panther Arena, Henry Aaron Field, and Elite Sports Clubs.

A wide range of intramural sports for individuals and teams also are offered by the Department of Recreational Sports and Facilities. Most sports are offered both semesters. For more information, contact the intramural office at (414) 229-6433.

Career Planning and Resource Center (CPaRC)

Mellencamp Hall, Room 128

(414) 229-4486

uwm.edu/careerplan

The Career Planning and Resource Center (CPaRC) helps students choose satisfying majors, build career skills, and make successful transitions from campus to career. Through a variety of programs, students can plan an education that is both rewarding and marketable. They also can plug into the largest job market in the state. Nearly two out of three jobs in Wisconsin are found in the Milwaukee metropolitan area.

CPaRC offers several services, including career counseling; walk-in advising/resume review; classroom and student organization workshops on a variety of topics like Choosing a Major/Career Direction, Resume Writing, Networking, Securing Internships, Using Social Media, and Interview Preparation; Career Days, which bring more than 100 employers to campus; two-credit courses in College Major Career Decision Making and Successful Career Transitions; a comprehensive website that serves as a virtual career center; and a Career Information Library and Media Center, Computer Labs, and personal assistance from a trained group of Peer Advisors (Career Resource Assistants).

Employer partnerships are a significant aspect of the CPaRC program. Representatives from companies like BMO Harris Banks, The Milwaukee Bucks, Northwestern Mutual, Roundy's, Direct Supply, Kohl's, Target, Coca-Cola, Best Buy, General Mills, and Metropolitan Life, as well as the Milwaukee Public Schools and non-profit organizations, often interview and participate in events on campus. PantherJobs, a web-based technology, connects UWM students and alumni with employers at all levels, including internships and part-time opportunities and campus jobs.

Center for International Education

Garland Hall, Room 102

(414) 229-3757

uwm.edu/cie

The Center for International Education offers a full array of international learning opportunities that help students develop the knowledge and skills necessary to understand and succeed in today's increasingly interconnected world. CIE coordinates several of UWM's international academic majors, minors, and certificate programs, as well as its study abroad programs. Film series, public lectures and conferences, and internationally focused student organizations further engage students with critical global issues. The Beyond Borders: International Living and Learning Community connects new freshmen with peers who share an interest in learning about the broader world.

CIE also coordinates UWM's international student admissions and immigration services. Specialized orientation programs and advising help to ensure that international students experience a smooth transition to and positive experience while at UWM.

For more information about CIE programs, please see our website or visit us in Garland Hall, Room 102.

Dean of Students/Office of Student Life

Mellencamp Hall, Room 118

(414) 229-4632

uwm.edu/deanofstudents

The Dean of Students (DOS) Office is a central resource for students and is here to support their success as members of the University of Wisconsin-Milwaukee community. Students might come to DOS to seek help resolving problems or to seek support in times of crisis. We help students navigate University offices and processes and find appropriate resources. We also work with students to resolve fee appeals and support individuals who need to withdraw for severe medical reasons. Additionally, the Dean of Students Office promotes students' rights and responsibilities by addressing

student behavior on campus and in the surrounding communities.

The Dean of Students Office publishes a Panther Planner & Undergraduate Student Handbook that provides students with information about the range of campus activities and resources available, as well as access to important policies and procedures. Planners are available from the Office in Mellencamp Hall, Room 118.

Contact the DOS Office if there is an incident or problem you'd like to report; if you need someone to listen, help, or lend a hand; or if you just can't figure out where to go.

University Information Technology Services

UWM Help Desk, 7 a.m. to midnight

(414) 229-4040; toll-free 877-381-3459; uwm.edu/technology/help

Mon.-Fri., 8 a.m.–5 p.m.: Help with wireless and clickers at the UWM Walk-in Help Desk, Bolton 225; help with UWM WiFi at Library Learning Commons IT Consultant desk

uwm.edu/technology

Technology services are provided to assist students with their coursework, in the classroom, and with their research.

An ePantherID and password are assigned to applicants so they can track their application online. Once enrolled in classes, the ePantherID and password provide access to UWM online services such as email and calendar services; PAWS student services to register for classes, view final grades, and pay tuition; D2L online course management system for coursework; and other IT services and resources. To assist in their research, students have access to a powerful online survey tool and UWM's High Performance Computing service.

Computer hardware and software services are available to students via the UWM TechMall. There, students will find information about and access to the UWM TechStore to purchase computers with an educational discount, iPads, iPods, printers, and technology-related peripherals and accessories. Students can also use the UWM TechRepair computer repair facility in Bolton 218, purchase discounted software through the online Wisconsin Integrated Software Catalog (WISC), and get in-person training and on-demand how-to videos for UWM technology services and commonly used software from Learning TECHniques.

Wireless service is offered in University buildings via PROWLnet and UWM WiFi. Students will find Campus Computer Labs (CCLs) with Macs, PCs, printers and scanners; and Web Kiosks located in many UWM buildings for a quick check of the Internet. The UWM Mobile app provides real-time information and is available for free download at the Apple App Store or the Android Market.

Intensive English Program (IEP)

Curtin Hall, Room 672

(414) 229-5757

esl@uwm.edu

uwm.edu/esl/programs/intensive-english-program

The Intensive English Program (IEP) is a non-credit, pre-university program that offers intensive English language training to students who are preparing for either undergraduate or graduate university studies and overall English fluency. The instruction is designed to strengthen listening, reading, writing, and speaking skills. Elective courses are offered in grammar and TOEFL (Test of English as a Foreign Language) preparation as well as in additional skill areas. Five eight-week sessions of English as a Second Language (ESL) classes are available every year: two consecutive sessions in the fall and spring semesters and one in the summer. For more information about IEP courses and

enrollment, contact the ESL office in Curtin Hall 672 at (414) 229-5757 or esl@uwm.edu.

Services for Adult and Returning Students

Vogel Hall, 3253 North Downer Ave.

(414) 229-2222

uwm.edu/undergrad-admission/student-type/adult-returning

Have you followed another life path and now want to explore your college options? Been away from school long enough to realize it's time to come back? Enrolling in college coursework after a long time away from school can be a daunting task.

The Office of Undergraduate Admissions staff is here to help adult students navigate through the back-to-school transition and find their niche at UWM. Advisors help prospective students identify their educational goals, assist non-degree undergraduates through the application and course selection process, and provide a home base to which adult students return for support and referrals. If the prospective adult student does not meet admission standards, advisors provide information about available options and assistance appropriate to the person's specific circumstances.

Applications are encouraged from veterans, educationally disadvantaged students, and other non-traditional applicants. Pre-admission advising for adults and other non-traditional students is available by appointment through the Office of Undergraduate Admissions. For more information or to schedule an appointment with an advisor, call (414) 229-2222. Or, feel free to connect with us at uwm.edu/contact for easy access to an online request form, phone, email, live chat, or social media, all in one convenient location.

Accessibility Resource Center

Mitchell Hall, Room 112

(414) 229-6287 (V/TTY)

uwm.edu/arc/

The Accessibility Resource Center's (ARC) mission is to create an accessible and inclusive campus environment for students with disabilities that fosters the development of each student's full potential. ARC facilitates reasonable academic accommodations to promote equal access to students in their educational programs at UWM.

Reasonable accommodations are determined on an individual basis and need to be supported in current documentation of disability submitted to ARC. Accommodations may include, but are not limited to: note taking, sign language interpreting and captioning services, adaptive equipment and materials, electronic textbook service, priority registration, and alternative testing.

ARC encourages students with disabilities to contact the office upon acceptance to UWM or immediately following diagnosis of disability. Early notification assists in arranging services that begin the first day of class, and is critical for students using sign language interpreters, captioning or note-taking services, and for those students requiring textbooks and materials in alternative formats.

Student Health

Norris Health Center

(414) 229-4716

uwm.edu/norris

The Norris Health Center can help you stay healthy while coping with the demands of college life. The center provides high quality medical, mental health, and wellness services, at low cost, to enrolled students.

Diagnosis and treatment of illnesses and injuries are provided Monday through Friday. Center services include counseling, gynecological care, immunizations, allergy injections, sports medicine, men's health, physical examinations, confidential STD counseling and testing, and a variety of health promotion and wellness services. Laboratory testing and pharmacy are provided on site at a nominal charge. Appointments preferred; same-day options available.

UWM Children's Learning Center

2114 E. Kenwood Blvd.
(414) 229-5384
uwm.edu/children/

The UWM Children's Learning Center provides high-quality care for the children of UWM students, faculty, staff, UWM Alumni Association members, and Hartford University School families and teachers. The Center serves children six weeks through 12 years of age, and is accredited by the National Association for the Education of Young Children (NAEYC).

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CAMPUS TOURS

Walking tours of campus are offered year-round 10 times per week (Monday, Wednesday, and Friday at 10 a.m. and 1 p.m.; Tuesday and Thursday at 10 a.m. and 3 p.m.) and Saturdays during the academic year (10:30 a.m. and 1:30 p.m.). Tours last approximately two hours and include a general information presentation. Due to limited space, reservations are required. For more information on visit opportunities or to make a tour reservation, go to www.visit.uwm.edu, contact the [Department of Admissions and Recruitment](#) at (414) 229-2222, or email uwmtours@uwm.edu.

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ABOUT UWM

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The University of Wisconsin-Milwaukee offers a world of intellectual, social, and personal possibilities. Whether you study at UWM for one semester or all the way through to an undergraduate degree, this catalog can help you make the most of those possibilities. UWM features:

- 103 bachelor's degree programs, 63 master's programs, one specialist degree, and 34 doctoral programs.
- 14 schools and colleges.
- More than 3,000 different courses, including evening and off-campus classes.
- Faculty members who are nationally recognized for research and publication and are active citizens of the metropolitan community.
- A community of 30,000 students, 1,674 faculty and instructional staff, and more than 2,000 staff members.

UWM was established more than 60 years ago, in 1956, with the merger of Wisconsin State College, Milwaukee, and the University of Wisconsin Extension Center in Milwaukee. (Wisconsin State College traces its origin to the Milwaukee State Normal School, founded in 1885.) Since then, UWM has become a major part of the intellectual, cultural, and economic life of Southeastern Wisconsin.

Academic Worlds

The academic worlds at UWM include:

- [School of Architecture and Urban Planning](#)
 - [Peck School of the Arts](#)
 - [Sheldon B. Lubar School of Business](#)
 - [School of Education](#)
 - [College of Engineering and Applied Science](#)
 - [School of Freshwater Sciences](#)
 - [College of Health Sciences](#)
 - [School of Information Studies](#)
 - [College of Letters and Science](#)
 - [College of Nursing](#)
 - [Joseph J. Zilber School of Public Health](#)
 - [Helen Bader School of Social Welfare](#)
 - [Graduate School](#)
 - [School of Continuing Education](#)
-

The Student Community

With increasing regularity, the world's students are making UWM a first-choice destination. UWM's diverse student body, representing 80 countries and all 50 states and the District of Columbia, is attracted by UWM's academic excellence and urban setting, convenient to the professional, cultural, and recreational advantages only a large metropolitan area can offer.

There's a lot for students to do at UWM. In the Peck School of the Arts complex and elsewhere on campus, you can enjoy concerts, art exhibitions, dance performances, and films by student and faculty artists and by distinguished visitors from the broader art world. You can cheer for UWM athletic teams, work off your tensions in organized or pickup sports, or keep in shape at the Klotsche Center. The Center, and the campus in general, are accessible to disabled students. As a student, you're also eligible for medical services at the Student Health Center.

At UWM, social life centers on the Union, where students can see internationally acclaimed authors, buy Panther gear, dine at restaurants from very fast to sit-down-and-stay, view French and Latin American film festivals, or wait for the bus. UWM's four residence halls house mostly first-year students in suite-style accommodations. Residents have access to a variety of dining and activity options in all complexes.

The Student Association and hundreds of other campus groups give students a voice in University life and opportunities to explore interests ranging from politics to sailing. Students are represented on University committees, publish newspapers, and are involved in radio station WUWM-FM 89.7.

The Milwaukee Community

As a student at Wisconsin's major urban university, you have access to the employment, social, cultural, and recreational opportunities of a large city, while enjoying the closeness of the UWM community.

UWM's 104-acre main campus is located on Milwaukee's upper East Side, one of the city's most attractive residential areas and home to many faculty, staff, and students. UWM also is just a short walk from historic Lake Park and the beautiful Lake Michigan shoreline, and a short drive or bus ride from a wealth of cultural and recreational resources.

Our location in the cultural and economic heart of Wisconsin puts students in the center of a growing metropolitan area that doubles as a learning laboratory.

Student Right to Know

The University has created a website to notify prospective and current students and their parents about their rights and responsibilities, as well as the services and programs offered at UWM. The items available include information about campus safety, academics, financial aid, and graduation rates. To access this website, go to uwm.edu/studentrighttoknow. If you require paper copies, feel free to print the information directly off the Web or contact the department that provides that information, and a copy will be sent to you.

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ARCHITECTURE AND URBAN PLANNING

Student Advising Office
Architecture and Urban Planning Building, Room 225
(414) 229-4015
uwm.edu/sarup

Degree Programs

Bachelor of Science, Architectural Studies

Master of Architecture

Master of Science, Architecture

Master of Urban Planning

Doctor of Philosophy, Architecture

The School of Architecture and Urban Planning (SARUP) at UWM offers the only professional program in architecture in Wisconsin that is accredited by the National Architectural Accrediting Board; one of the two graduate planning programs in the state accredited by the Planning Accreditation Board (PAB) of the American Planning Association; and one of very few doctoral programs in architecture in the United States. SARUP offers a four-year Bachelor of Science in Architectural Studies (BSAS) undergraduate pre-professional degree that prepares students for professional, masters-level training in architecture and other design fields. As the urban center of the state with strong ethnic communities, Milwaukee makes an appropriate setting for the study of architecture and urban planning.

In addition to the degrees listed above, SARUP offers a Master of Architecture/Master of Urban Planning, a coordinated professional degree program designed for persons seeking integrated study in both areas. A non-professional Master of Science in Architecture is available for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. A PhD in Architecture is offered for persons who seek careers in research and teaching in architecture and allied fields, in consulting, or in roles in government and professional practice requiring advanced skills and research experience. For more information on the SARUP graduate programs, refer to the *Graduate School Bulletin*.

Most states require that an individual intending to become an architect hold an accredited degree. There are two types of degrees that are accredited by the National Architectural Accrediting Board: (1) the Bachelor of Architecture, which requires a minimum of five years of study, and (2) the Master of Architecture, which requires a minimum of three years of study following an unrelated bachelor's degree or two years following a related pre-professional bachelor's degree. These professional degrees are structured to educate those who aspire to registration/licensure as architects.

The four-year, pre-professional degree, where offered, is not accredited by NAAB. The pre-professional degree is useful for those wishing a foundation in the field of architecture, as preparation for either continued education in a professional degree program or for employment options in architecturally related areas.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

Faculty and Staff

Administration

Robert Greenstreet

Dean

Jarad Parker

Assistant Dean, Business Affairs

Joan Simuncak

Assistant Dean, Student Affairs

Graduate Advisor

Tammy Taylor

Undergraduate Advisor

Erica Chappellear

Educational Outreach & Recruiting Advisor

Architecture

Sherry Ahrentzen, Prof. Emerita, PhD

Jasmine Benyamin, Asst. Prof., PhD

Princeton University

Nikole Bouchard, Asst. Prof., MArch

Princeton University

Uriel Cohen, Prof. Emeritus, PhD

Chris T. Cornelius, Assoc. Prof., MArch

University of Virginia

Kevin Forseth, Assoc. Prof. Emeritus, MArch

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Mark Keane, Prof., MArch
University of Illinois

Linda R. Krause, Assoc. Prof. Emerita, PhD

Whitney Moon, Asst. Prof., BArch
California Polytechnic, San Luis Obispo

Jeffrey Ollswang, Prof. Emeritus, MSc

Harvey Rabinowitz, Prof. Emeritus, MArch

Amos Rapoport, Distinguished Prof. Emeritus, MArch

Kyle Reynolds, Asst. Prof., MArch
Princeton University

Douglas Ryhn, Prof. Emeritus, MS

Brian Schermer, Assoc. Prof., PhD
University of Michigan

Anthony Schnarsky, Assoc. Prof. Emeritus, MArch

Arijit Sen, Assoc. Prof., PhD
University of California, Berkeley

James W. Shields, Assoc. Prof., MArch
University of Wisconsin-Milwaukee

Gil Snyder, Assoc. Prof., MArch, Associate Dean
Columbia University

Josef Stagg, Assoc. Prof., DArch
University of Michigan

Kyle Talbott, Assoc. Prof., MArch
Texas A&M

Filip Tejchman, Asst. Prof., MSAAD
Columbia University

Michael Utzinger, Assoc. Prof., MSE
University of Wisconsin-Madison

Karl Wallick, Assoc. Prof., MArch, Chair
University of Pennsylvania

James H. Wasley, Prof., MArch
Rice University

Gerald Weisman, Prof. Emeritus, PhD

Larry Witzling, Prof. Emeritus, PhD

Maureen Zell, Assoc. Prof., MArch
Yale University

Urban Planning

Ernest Alexander, Prof. Emeritus, PhD

Carolyn Esswein, Adjunct Asst. Prof., MArch, MUP
University of Wisconsin-Milwaukee

Enrique Figueroa, Assoc. Prof., PhD
University of California, Davis

Nancy Frank, Assoc. Prof., PhD, Chair
State University of New York at Albany

Kirk Harris, Assoc. Prof., PhD
Cornell University

Lingquan Hu, Assoc. Prof., PhD
University of Southern California

William Huxhold, Prof. Emeritus, MS

Mordecai Lee, Prof., PhD
Syracuse University

Joseph Mangiamele, Prof. Emeritus, PhD

Robert Schneider, Asst. Prof., PhD
University of California, Berkeley

Sammis White, Prof. Emeritus, PhD

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SHELDON B. LUBAR SCHOOL OF BUSINESS

*Student Services Center
Lubar Hall, N297
(414) 229-5271
uwm.edu/business*

Degree Programs

Bachelor of Business Administration (BBA): Accounting, Finance, Human Resources Management, Information

Technology Management, Marketing, Supply Chain & Operations Management

Bachelor of Arts in Global Studies: Global Management Track: Jointly offered by Lubar School of Business and College of Letters and Science

Master of Business Administration (MBA): With career focus concentrations available in Business Analytics, Entrepreneurship, Finance, Health Care Management, Marketing, and Supply Chain Management

Master of Management (MS): Accounting, Professional Accounting, Finance Analysis, Management, Marketing, and Taxation

MBA/MS in Information Technology Management: A coordinated degree program combining MBA and MS in ITM curricula

Master of Science in Human Resources and Labor Relations (MHRLR): Jointly offered by Lubar School of Business and College of Letters and Science

Master of Science in Information Technology Management (MS in ITM): Innovative, STEM-designated program combining technical, managerial, and business knowledge

Master of Science in Non-profit Management and Leadership: Jointly offered by Lubar School of Business and College of Letters and Science

Master of Public Administration (MPA): Jointly offered by Lubar School of Business and College of Letters and Science

MBA-Doctor of Nursing Practice: Administered collaboratively by the UWM College of Nursing and the Lubar School of Business

MBA-Master of Arts in Language, Literature, and Translation (MALLT): program for the MALLT Professional Translation track jointly offered by Lubar School of Business and the College of Letters and Science

Doctor of Philosophy in Management Science (PhD): Accounting, Finance, Management Information Systems, Marketing, Organizations & Strategic Management, Supply Chain & Operations Management

The UWM Sheldon B. Lubar School of Business is a major metropolitan business school committed to academic excellence. Because of its metropolitan location, the School offers several advantages. Milwaukee-area firms provide an exciting, real-world laboratory for students to gain valuable insights and skills in their chosen professional fields as well as providing part-time or full-time employment opportunities. Students can also gain practical work experience by participating in internship programs. Business leaders from the community participate in School activities, both in the classroom and on the School's advisory councils.

High-quality management education that incorporates state-of-the-art technology is delivered to a diverse group of graduate and undergraduate students and practicing executives and professionals. We address the professional development and lifelong learning needs of individuals.

Through scholarly research, we advance knowledge pertaining to management decision making and practice and further enrich our teaching effectiveness.

Our **undergraduate degree programs** provide students with a career foundation leading to managerial advancement and/or entrepreneurial careers.

Our **master's degree programs** prepare students to assume general management or functional specialist positions, with potential for senior-level leadership positions or entrepreneurial careers.

Our **doctoral degree programs** prepare students for research and teaching careers in higher education and research careers in industry.

Our **executive education programs** provide customized problem solving for organizations.

We also employ our professional skills in service to the School, University, scholarly and professional organizations, and the regional business community. We capitalize on the diversified resources of the Metropolitan Milwaukee business community and use them as a living laboratory to enrich our scholarly and instructional pursuits.

The Lubar School of Business undergraduate and graduate degree programs are accredited by the Association to

Advance Collegiate Schools of Business (AACSB-International), the internationally recognized accrediting body for business schools.

Completion of the accounting major, which is accredited by the Wisconsin State Board of Accountancy, serves as basic preparation for the CPA exam.

The BBA in Finance has been accepted into the CFA Institute University Recognition Program. For further information, see the Finance major description.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records prior to acceptance of a student by the placement site. Students are responsible for obtaining the necessary information about these requirements and for planning their studies accordingly. Please contact the appropriate department or program office for further information.

Admission

The Bachelor of Business Administration degree is based on two years of college work in pre-business, followed by two years of study in the business curriculum. Potential applicants should consult the Department of Admissions and Recruitment, Vogel Hall, (414) 229-2222, for current information.

New Freshmen. Admission of freshmen into the Lubar School of Business would be granted to students who fulfill the UWM admission standards. All new freshmen are admitted into intended business programs. Intended business students who meet additional requirements will be admitted to a major in the Lubar School of Business (see "Admission to a Major" below).

New Freshmen Scholarships. New freshman applicants with a composite ACT of 25 or better, a math subscore of 23 or better, and a high school GPA of 3.5 or higher are eligible for scholarship awards ranging from \$10,000-\$39,500 during the course of four years. Eligible students will be contacted based on their admission data. Contact Lubar School of Business Scholarship Coordinator, Andrea Wrench, for further information (awrench@uwm.edu).

Transfer Students. Students seeking to transfer to the School with fewer than 56 transfer credits will be admitted into intended business major if they meet the UWM admission requirements for transfer.

Applicants with 56 or more transfer credits will be admitted to the major if a review of their academic record indicates that they meet the admission criteria for the major requested (see "Admission to a Major" below).

At least 50% of the business credit hours required for the business degree must be earned at UWM, and at least 12 credits in each major must be completed in residence.

Students from two-year institutions (community colleges and two-year UW Colleges) are limited to the transfer of up to 72 credits required for the bachelor's degree.

Admission to a Major

Intended business students may apply for admission to the major after completing all of the following requirements:

1. Complete at least 56 credits and satisfy the UWM Oral and Written Communication-Part A and Quantitative Literacy-Part A requirements; and
2. Successfully complete (with a cumulative grade point average of 2.25 or higher) the **Business Foundation Course Group**: Commun 103 (Public Speaking) or Commun 105 (Business and Professional Communication); Econ 103 (Principles of Microeconomics); Econ 104 (Principles of Macroeconomics); Math 211 (Survey of Calculus and Analytic Geometry) or equivalent; Bus Adm 201 (Introduction to Financial Accounting); and Bus Adm 230 (Introduction to Information Technology Management); and

3. Obtain a cumulative grade point average equal to or higher than the standard established by the Lubar School of Business each semester. Students who have a 2.5 cumulative grade point average or higher (including transfer work, if any) are guaranteed admission.

Students must be admitted to the major in order to enroll in 400-level and above business coursework. Please see the Lubar School of Business academic advising staff in LUB N297 for more information.

Course of Study

All students must meet the UWM General Education Requirements (GER). Detailed information is provided at www.uwm.edu/academics/ger.cfm. Satisfaction of the Lubar School of Business GER requirements fulfills UWM GER requirements. The following degree requirements apply to students who begin at UWM in fall 2012 or thereafter. Other students should contact Undergraduate Student Services, Lubar Hall, Room N297, for details regarding their degree requirements.

GER Competency Requirements

Oral and Written Communication: Part A - English 102 (or equivalent) and Part B - English 205

Quantitative Literacy: Part A - Math 105 or 108 (or equivalent) and Part B - Math 211 (221 or 231)

Foreign Language Requirement: Refer to the website listed above for details describing satisfaction of this requirement.

GER Distribution Requirements

Arts: 3 cr

Humanities: 6 cr (excluding Commun 103 if used to satisfy a Foundation course requirement)

Social Science: 6 cr (excluding Commun 105 if used to satisfy a Foundation course requirement), only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding Econ 103 and 104). Human Resources majors must complete Psych 101.

Natural Science: 6 cr must complete at least two courses, one of which must be a lab or field experience (excluding Math 211, 221, 226, or Math 231).

Cultural Diversity: At least 3 credits of a designated cultural diversity course must be taken as part of the arts, humanities, or social science requirement.

Business Elective Credits

All business majors must complete a minimum number of business elective credits, which varies by major. Finance, Human Resources Management, Marketing, and Supply Chain & Operations Management majors are required to complete a minimum of 12 business elective credits; Accounting and ITM majors are required to complete a minimum of 9 business elective credits.

General Elective Credits

All business majors are required to complete a minimum of 18 general elective credits.

Business Core Courses (25 cr)

Accounting Majors

Bus Adm 210	Introduction to Management Statistics*	4
Bus Adm 330	Organizations*	3
Bus Adm 350	Principles of Finance*	3
OR		

Bus Adm 380	Introduction to Real Estate Markets	3
OR		
Bus Adm 451	Investment Finance**	3
Bus Adm 360	Principles of Marketing*	3
Bus Adm 370	Introduction to Supply Chain Management*	3
Bus Adm 391	Business Law I	3
Bus Adm 450	Intermediate Finance	3
Bus Adm 600	Management Analysis	3
TOTAL		25
Non-Accounting Majors		
Bus Adm 210	Introduction to Management Statistics*	4
Bus Adm 302	Managerial Accounting	3
Bus Adm 330	Organizations*	3
Bus Adm 350	Principles of Finance*	3
Bus Adm 360	Principles of Marketing*	3
Bus Adm 370	Introduction to Supply Chain Management*	3
Bus Adm 391	Business Law I	3
Bus Adm 600	Management Analysis	3
TOTAL		25

* *Business Scholars course option*

** *Bus Adm 451 cannot be used to substitute for Bus Adm 350 if a student is also completing the Finance major.*

International Business Component (3 cr)

All business majors must complete one course from the list of international business-related courses: Bus Adm 456 (International Financial Management), Bus Adm 465 (International Marketing), Bus Adm 496 (International Business), Bus Adm 498 (Study Abroad: Business Topics), Bus Adm 535 (Global Information Technology Management), Bus Adm 541 (Cross-Cultural Management), or Bus Adm 551 (International Investments).

Major (21-24 cr)

The major prepares students for productive careers in business and provides specialized analytical skills and understanding for professional advancement. See individual majors for required courses. Please check with Undergraduate Student Services (LUB N297) regarding the frequency of major course offerings.

Business Scholars Program (23 cr)

The Business Scholars Program allows outstanding business students to build a rich portfolio of academic, extracurricular, and professional achievements. Students will build strong business competencies as well as enhanced communication and quantitative skills. International study is encouraged through the use of two-week study abroad opportunities.

Eligibility. To be admitted to the Business Scholars Program, the following requirements must be met: 1) A student must complete 24 credits with an overall cumulative grade point average of 3.3 (on a 4.0 scale), including completion of Math 211 (or equivalent) with a grade of B or better, completion of English 101 and 102 with a grade of B or better (or attainment of placement score of 525 or higher), and completion of Econ 103 with a grade of B or better; and 2) A student must submit an application that includes a one-page essay. The application is available in Undergraduate Student Services (LUB N297).

Requirements

Foundation Courses: Bus Adm 207 (Business Scholars: Introduction to Financial Accounting), Bus Adm 211 (Business Scholars: Introduction to Management Statistics), and Bus Adm 231 (Business Scholars: Introduction to Information Technology Management).

Core Courses (choose 2 from the following): Bus Adm 331 (Business Scholars: Organizations), Bus Adm 351

(Business Scholars: Principles of Finance), Bus Adm 361 (Business Scholars: Principles of Marketing), and Bus Adm 371 (Business Scholars: Introduction to Supply Chain Management).

Business Scholars Seminars: Complete two 400-level seminar courses or one 400-level seminar course and Bus Adm 498 (Study Abroad: Business Topics).

Continuation and Graduation Requirements. Students must maintain a cumulative UWM GPA of 3.25 or higher, complete a minimum of 23 credits of Business Scholars coursework, participate in Business Scholars activities, and meet with the Business Scholars academic advisor during the final semester before graduation to verify degree requirements are met.

Degree Requirements

Credits. A minimum of 123 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

Grade Point Average. Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to maintain a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

Residence Requirements. A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Accounting

An accounting degree provides graduates with a challenging career path clearly pointed toward growth and opportunity. The new economy is creating new ways of working, living, and growing. Position yourself with a career that understands the questions the new economy poses.

Accounting graduates who take positions in public accounting firms provide management consulting, tax, and audit services to external clients. Other accounting graduates, who take positions with industry and not-for-profit organizations, work as part of the management team providing information for decision support and performance evaluation. Accountants within organizations specialize in tax reporting and planning. Students desiring to become a Certified Public Accountant (CPA) must complete 150 credits. In most cases, a student will combine a 123-credit undergraduate accounting degree with a graduate degree program.

For the major in accounting, 24 credits are required beyond the 4 credits of Bus Adm 201 (Introduction to Financial Accounting) or Bus Adm 207 (Business Scholars: Introduction to Financial Accounting). A minimum 3.0 cumulative GPA, completion of Math 211 (Survey in Calculus and Analytic Geometry), Bus Adm 230 (Introduction to Information Technology Management) or 231 (Business Scholars: Introduction to Information Technology Management), and a grade of B or better in Bus Adm 201/207 are required to enroll in Bus Adm 301 (Intermediate Accounting). A grade of B or better in Bus Adm 301 is required to enroll in Bus Adm 402, 404, and 409.

Required Core Courses

All students majoring in accounting must complete the following accounting core courses:

Bus Adm 300 Career and Professional Development: Accounting*

1

Bus Adm 301	Intermediate Accounting	4
Bus Adm 402	Advanced Financial Accounting	3
Bus Adm 404	Cost Management	3
Bus Adm 405	Income Tax Accounting I	3
Bus Adm 406	Income Tax Accounting II	3
Bus Adm 408	Accounting Information Systems	3
Bus Adm 409	Auditing: Procedures and Applications	3
Bus Adm 410	Accountants' Ethical Responsibilities*	1
TOTAL		24

* *Note: Part-time students who are employed on a full-time basis may substitute Bus Adm 402 (Consolidations and Governmental Accounting) for Bus Adm 300 and 410 with the approval of assigned Lubar academic advisor.*

Business Electives (9 cr): Students must complete an additional 9 credits in the Lubar School of Business. Bus Adm 400 (Accounting Professional Internship) may be utilized in this area.

Additional Notes: Students who have completed Bus Adm 404 will not be allowed to complete Bus Adm 302 for credit.

Finance

The finance major provides the needed tools to work in investment management, corporate financial management, and banking. Position titles for finance majors include loan officers, mortgage review officers, stockbrokers, bond and security analysts, and ultimately, chief financial officers. Finance majors are increasingly taking and passing the Chartered Financial Analysts (CFA) examination. Thorough training in finance and related fields provides the practical and theoretical background needed to succeed in the fast-paced and fascinating world of domestic and international finance.

The finance major highlights two tracks of concentration: investments and corporate finance. Investment management has been revolutionized by rapid advances in computerization. Modern investment theory of portfolio selection, asset pricing models, pricing of options and other derivative securities, and views on the efficiency of security markets has provided major improvements in investment management practice.

Other finance majors may concentrate in corporate finance. Corporate financial officers oversee the efficient allocation of funds within enterprises and borrow funds on the most favorable terms through banks, corporate paper, bonds, or new stock issues. Corporate financial managers examine corporate policies toward dividends, debt leverage, and agency conflicts between firm stakeholders.

For the major in finance, a minimum of 21 credits is required beyond the 3 credits of Bus Adm 350 (Principles of Finance) or Bus Adm 351 (Business Scholars: Principles of Finance). A minimum C grade must be earned in Bus Adm 350/351 to pursue the finance major. It is recommended that Bus Adm 350 be taken in the first semester of junior status. Bus Adm 450 (Intermediate Finance) is a prerequisite or co-requisite for several courses in the finance major. Accordingly, finance majors should enroll in Bus Adm 450 soon after completing Bus Adm 350 or 351.

Required Courses (9 cr)

Bus Adm 450	Intermediate Finance	3
Bus Adm 451	Investment Finance	3
Bus Adm 455	Financial Institutions	3

Major Electives (12 cr)

Choose four courses from the following list:

Bus Adm 301	Intermediate Accounting	4
Bus Adm 452	Applied Portfolio Management	3
Bus Adm 453	Corporate Finance Seminar	3
Bus Adm 454	Analysis of Options and Futures	3
Bus Adm 456	International Financial Management*	3
Bus Adm 457	Financial Modeling	3
Bus Adm 458	Venture Finance	3
Bus Adm 459	Finance Professional Internship	3
Bus Adm 481	Real Estate Finance	3
Bus Adm 551	International Investments*	3
Total		21-22

The following finance major courses represent foundational material for the CFA Level 1 Exam: Bus Adm 301, 450, 451, 452, 454, 455, 456 or 551, and 481.

Business Electives (12 cr): Students must complete 12 additional credits in the Lubar School of Business. The Finance Internship (Bus Adm 396) may be utilized in this area.

**If Bus Adm 456 or 551 is selected as the International Business Component course, students must choose a different finance elective to complete the major.*

Human Resources Management

Human resource managers are increasingly relied upon to make optimal decisions about such topics as motivation and productivity of employees, compensation, and performance appraisals. This field is particularly challenging due to the diverse interests of management, labor, consumers, regulatory agencies, political constituents, and environmental issues in a competitive, global economy.

This major prepares students for entry-level careers in either generalist or specialist areas of human resources management. The curriculum provides a framework through which students learn how human resource management decisions affect and are affected by virtually all other management decisions.

Human Resources Management majors are required to complete Psych 101 (Introductory Psychology) as part of their Social Sciences requirement.

The major in human resources management requires 21 human resources management credits beyond the 3 credits of Bus Adm 330 (Organizations) or Bus Adm 331 (Business Scholars: Organizations).

Required Course (3 cr)

Bus Adm 444	Human Resources Management*	3
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Core Courses (9 cr)

Choose three courses from the following list:

Bus Adm 440	Compensation Management*	3
Bus Adm 441	Diversity in Organizations*	3
Bus Adm 443	Special Topics in HRM (Topic: Employment Law)*	3
Bus Adm 445	Training and Development in Organizations*	3
Bus Adm 448	Staffing Human Resources*	3
Econ 415	Economics of Employment & Labor Relations	3

HRM Elective Courses (9 cr)

Choose three courses from the Core Courses listed above or from the following list of courses:

Bus Adm 442	Industrial Psychology	3
Bus Adm 443	Special Topics in HRM (subtitle)	3
Bus Adm 449	Human Resources Management Professional Internship	3
Commun 300	Interviews and Interviewing	3
Commun 310	Communication in Organizations	3
Econ 448	Economics of Human Resources	3
Psych 325	Research Methods in Psychology	3
Total		21

* These HRM major courses represent foundational material for the SHRM Assurance of Learning Certification exam.

Business Electives (12 cr): Students must complete 12 additional credits in the Lubar School of Business. The HRM Internship (Bus Adm 394) may be utilized in this area.

Information Technology Management

The Information Technology Management (ITM) degree provides undergraduate students with the knowledge needed to develop creative and effective business solutions, based on a thorough comprehension of business problems and opportunities.

To that end, students are provided with a strong technical foundation in contemporary approaches to business application systems development – which includes planning, analysis, design, project management, programming, maintenance, and support – using state-of-the-art technologies, tools, and techniques, as well as an essential background in various business functional areas, such as management, marketing, accounting, finance, supply chain, and economics. In addition, there is an emphasis on the communication skills and teamwork critical to client understanding and satisfaction.

The ITM program is intended to be the first step in a lifelong learning experience in the exciting and dynamic field of ITM. It provides a strong foundation for advancement and success in ITM careers and ventures.

The major requires 24 ITM credits beyond the 3 credits of Bus Adm 230 (Introduction to Information Technology Management) or 231 (Business Scholars: Introduction to Information Technology Management). A grade of C or better in Bus Adm 230/231 is required to enroll in Bus Adm 335; a grade of C or better in Bus Adm 335 is required to enroll in advanced ITM courses.

Required Courses (12 cr)

Bus Adm 335	Visual System Development	3
Bus Adm 432	Object-Oriented Systems Development	3
Bus Adm 434	Database Management Systems	3
Bus Adm 436	Systems Analysis and Design	3

Major Electives (12 cr)

Choose at least four of the following courses:

Bus Adm 433	Information Technology Project Management	3
Bus Adm 438	Information Technology Management Topics	3
Bus Adm 439	Information Technology Management Professional Internship	3
Bus Adm 530	Introduction to eBusiness	3
Bus Adm 531	Developing Web Applications Using Web Services	3

Bus Adm 532	Web Development for Open Business Systems	3
Bus Adm 533	Information Technology Infrastructure for Business	3
Bus Adm 534	Advanced Information Technology Project Management	3
Bus Adm 535	Global Information Technology Management**	3
Bus Adm 536	Business Intelligence*	3
Bus Adm 537	Enterprise Systems Concepts and Issues*	3
Bus Adm 538	Business Process Integration*	3
Bus Adm 539	Web Application Server Development*	3
Total		24

* These ITM courses represent foundational material for the TERP 10 Certification preparation course exam.

** If Bus Adm 535 is selected as the International Business Component course, students must choose a different ITM elective to complete the major.

Business Electives (9 cr): Students must complete 9 additional credits in the Lubar School of Business. Bus Adm 336 (Enterprise Systems and Data Analytics) may be utilized in this area.

Marketing

Marketing is a key factor contributing to the success of any business organization. It is the dynamic and creative process of the development, pricing, promotion, and distribution of products and services to satisfy customer and organizational objectives. Effective marketing requires an integration of eclectic knowledge and the skills pertinent to understanding consumer behavior, planning and analyzing marketing research data, thinking strategically, and managing people. Graduates of the marketing major find an exciting and broad spectrum of career opportunities in brand/product management, industrial selling, retailing, sales management, advertising, marketing research, customer-service management, and other areas.

The major in marketing requires 21 marketing credits beyond the 3 credits of Bus Adm 360 (Principles of Marketing) or Bus Adm 361 (Business Scholars: Principles of Marketing).

Required Courses (9 cr)

Bus Adm 461	Consumer Behavior	3
Bus Adm 462	Marketing Research	3
Bus Adm 463	Marketing Management	3

Major Electives (12 cr)

Choose four courses from the approved list below:

Bus Adm 447	Entrepreneurship	3
Bus Adm 460	Retail Management	3
Bus Adm 464	Management of Promotion	3
Bus Adm 465	International Marketing*	3
Bus Adm 466	Business to Business Sales and Marketing	3
Bus Adm 467	Marketing Seminar: (subtitle)	3
Bus Adm 468	Internet Marketing	3
Bus Adm 469	Marketing Professional Internship	3
Total		21

* If Bus Adm 465 is selected as the International Business Component course, students must choose a different marketing elective to complete their major.

Business Electives (12 cr): Students must complete 12 additional credits in the Lubar School of Business. The Marketing Internship (Bus Adm 397) may be utilized in this area.

Supply Chain and Operations Management

Supply chain management is the integration of all key business processes from original suppliers through end users, and provides products, services, and information that add value for customers and other stakeholders. It includes the supply, storage, and movement of materials, information, personnel, equipment, and finished goods within the organization and between the organization and its environment. The operations function, within the supply chain, relates to the creation of goods and services through efficient and effective use of personnel, material, and machines, and includes acquisition of resources, planning of production and inventory levels, scheduling of work assignments, and the control of production and quality. Recent concepts in supply chain and operations management include lean operations, Six Sigma, ERP, and mass customization.

The major in Supply Chain and Operations Management (SCOM) requires 21 credits beyond the 3 credits of Bus Adm 370 (Introduction to Supply Chain Management) or Bus Adm 371 (Business Scholars: Introduction to Supply Chain Management).

Required Courses (12 cr)

Bus Adm 475	Operations Planning and Control	3
Bus Adm 476	Logistics and Transportation Management	3
Bus Adm 477	Purchasing and Supply Management	3
Bus Adm 478	Supply Chain Analytics	3

Elective Courses (6 cr)

Choose two courses from the following list:

Bus Adm 447	Entrepreneurship	3
Bus Adm 450	Intermediate Finance	3
Bus Adm 460	Retail Management	3
Bus Adm 466	Business to Business Sales and Marketing	3
Bus Adm 472	Special Topics in Supply Chain and Operations Management (subtitle)	3
Bus Adm 479	Supply Chain and Operations Management Professional Internship	3
Bus Adm 537	Enterprise Systems Concepts and Issues	3
Bus Adm 538	Business Process Integration	3
Bus Adm 571	Quality and Six Sigma Tools	3
Bus Adm 577	Supply Chain Applications, Policy, & Strategy	3

Capstone (3 cr)

Bus Adm 576	Enterprise Planning in the Supply Chain	3
Total		21

The SCOM major required courses represent foundational material for the APICS CPIM certification preparatory course.

Business Electives (12 cr): Students must complete 12 additional credits in the Lubar School of Business. The Supply Chain & Operations Management Internship (Bus Adm 398) may be utilized in this area.

Double Majors

Students majoring in business administration may pursue a double major in a second area of the Lubar School of Business. The double major can be declared in Lubar Hall N297; the advising staff in Undergraduate Student Services will explain this option and discuss the curriculum required.

General Business Minor

A General Business Minor consisting of 29 credits in business and economics is available to provide a professional business education dimension to non-business students at UWM schools and colleges.

Required Courses

Econ 103	Principles of Microeconomics	3
Econ 104	Principles of Macroeconomics	3
Bus Adm 201	Introduction to Financial Accounting	4
Bus Adm 210	Introduction to Management Statistics*	4
Bus Adm 230	Introduction to Information Technology Management*	3
Bus Adm 330	Organizations	3
Bus Adm 350	Principles of Finance	3
Bus Adm 360	Principles of Marketing	3
Bus Adm 370	Introduction to Supply Chain Management	3
Total		29

* Or equivalent. *Consult an academic advisor in Undergraduate Student Services for a list of equivalent courses.*

At least 15 credits for the General Business Minor must be completed at UWM. You must also complete all 29 credits with an overall grade point average of at least 2.25. No courses may be taken on a credit/no credit basis.

Post-baccalaureate General Business Minor

The General Business Minor is available at the post-baccalaureate level. Students requiring no more than 6 credits to complete the minor are eligible. At least 15 credits for the post-baccalaureate General Business Minor must be completed at UWM. A minimum of 3 post-baccalaureate credits must be completed at UWM. A minimum overall GPA of 2.25 on all General Business Minor courses must be earned; a minimum UWM post-baccalaureate GPA of 2.0 is required.

Interested students should contact the academic advisors in Room N297 of Lubar Hall, (414) 229-5271, for further details.

Certificate Programs

Certificate in Enterprise Resource Planning

The Certificate in Enterprise Resource Planning is designed for business students who desire a sequence of courses that focus specifically on the Enterprise Resource Planning (ERP) area. The certificate is designed for non-Information Technology Management majors. This five-course sequence prepares students for the SAP TERP 10 certification exam. The market demand for professionals with skills in this area is high.

To obtain the certificate, a student must complete 15 credits of required coursework while fulfilling all requirements of the baccalaureate degree.

Required Course (3 cr)

Bus Adm 336	Enterprise Systems and Data Analytics	3
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Elective Courses (12 cr)

Choose four of the following courses:

Bus Adm 536	Business Intelligence	3
Bus Adm 537	Business Systems Concepts and Issues	3
Bus Adm 538	Business Process Integration	3
Bus Adm 539	Web Application Server Development	3
Bus Adm 540	TERP 10 Certification	3
Total		15

Note: A business student may count no more than 6 credits from a major towards the Certificate in Enterprise Resource Planning.

Eligibility. To apply to the Certificate in Enterprise Resource Planning program, students must be admitted to Lubar School of Business and have completed the foundation courses.

Graduation. Students must complete all coursework required for the certificate with at least a 2.25 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

Certificate in International Business

The Certificate in International Business is designed to offer UWM students the opportunity to complement their major field of study with an additional concentration in international business. Students will take a coordinated series of international courses and receive a certificate that signifies their knowledge in this area.

To obtain the certificate, the student must complete a minimum of 15 approved international business credits while fulfilling all requirements of the baccalaureate degree, including UWM's foreign language requirement. The certificate is open to all undergraduate business and non-business majors and to students who have previously earned a bachelor's degree from UWM or any accredited college or university. Non-business majors will need at least 17 prerequisite credits of business coursework, in addition to Econ 103 and 104, to complete this certificate.

Completing the certificate requires the following:

The following three courses:* (9 cr)

Bus Adm 456**	International Financial Management	3
Bus Adm 465**	International Marketing	3
Bus Adm 496*	International Business	3

and at least two additional internationally-oriented courses (6 cr) from the following list:

Bus Adm 467**	Marketing Seminar (International topics only)	3
Bus Adm 494	International Business Internship	3
Bus Adm 495***	Special Topics in Business (International topics only)	3
Bus Adm 497***	Study Abroad (International topics only)	3
Bus Adm 498	Study Abroad: Business Topics	3
Bus Adm 535**	Global Information Technology Management	3

Bus Adm 541	Cross-Cultural Management	3
Bus Adm 551**	International Investments	3
Econ 351	Introduction to International Economic Relations	3
Econ 454	International Trade	3
Pol Sci 316	International Law	3
Pol Sci 330	The Politics of International Economic Relations	3
Pol Sci 339	European Integration	3
Pol Sci 343	Asian International Relations	3
Pol Sci 346	U.S.-Latin American Relations	3
Global 311	Contexts for Global Management	3
TOTAL		15

* Students majoring in business administration and completing an International Business Certificate can count Bus Adm 496 toward their International Business component.

** A business student may count no more than 6 credits from a major towards a business certificate.

*** Repeatable for credit with a change in topic up to 6 credits.

Note: Non-business students will need at least 17 prerequisite credits from the Lubar School of Business, in addition to Econ 103 and 104, to complete this certificate. Bus Adm 456 requires Bus Adm 350 (which requires Econ 103, Econ 104, Bus Adm 201, and Bus Adm 210 or equivalent); Bus Adm 465 requires Bus Adm 360 (which also requires Econ 104); and Bus Adm 496 requires Bus Adm 330 (plus 350 and 360).

Students must complete all coursework required for the certificate with at least a 2.5 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.

Certificate in Real Estate

The Real Estate Certificate is designed to offer business students the opportunity to complement their major field of study with an additional concentration in real estate. Students completing the Real Estate Certificate will have coursework in real estate finance, valuation, environmental real estate issues and property development, as well as real estate law. This background, when added to a business major, opens career opportunities to students in mortgage banking and commercial real estate lending, commercial leasing and brokerage, appraisal and valuation, real estate investment analysis, and property development and management.

The certificate is open to all students in good standing seeking a bachelor's degree at the University of Wisconsin-Milwaukee (UWM) and to all students who have previously received a bachelor's degree from UWM or any other accredited college or university.

Required Courses:

Bus Adm 380	Introduction to Real Estate Markets	3
Bus Adm 481	Real Estate Finance	3
Bus Adm 482	Valuation of Real Estate	3
Bus Adm 483	Property Development and Management	3

Choose one elective course from the list below (3 cr):

Bus Adm 389	Real Estate Internship	3
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Bus Adm 484	Real Estate Law	3
Bus Adm 485	Environmental Issues in Real Estate	3
TOTAL		15

* Business students completing a real estate certificate may utilize the courses as part of their business elective requirements. Note: Non-business majors are required to complete Econ 104 (Macroeconomics) in order to fulfill requirements for this certificate. It also is recommended that students complete Bus Adm 201 (Introduction to Financial Accounting) and Bus Adm 350 (Principles of Finance) prior to taking Bus Adm 481 (Real Estate Finance). A business minor also satisfies the prerequisite coursework for non-business students.

All coursework required for the Real Estate Certificate must be completed with at least a 2.5 GPA in order to post the certificate on the transcript. At least half of the credits required for the certificate must be taken in residence at UWM. Real Estate Certificate courses may not be taken on a credit/no credit basis except for Bus Adm 389, Real Estate Internship. Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

Certificate in Entrepreneurship

The Entrepreneurship Certificate is designed to offer UWM students the opportunity to complement their major field of study with an additional concentration in entrepreneurship. Students will take a coordinated series of courses and receive a certificate that signifies their knowledge in this area.

To obtain the certificate, the student must complete a minimum of 15 approved entrepreneurship credits while fulfilling all requirements of the baccalaureate degree. The certificate is open to all students in good standing seeking a bachelor's degree at the University of Wisconsin-Milwaukee and to all students who have previously received a bachelor's degree from UWM or any other accredited college or university. Non-business majors will be required to complete prerequisites for the required courses and electives to fulfill the requirements for this certificate.

Required (12 cr)

Bus Adm 447	Entrepreneurship	3
Bus Adm 458*	Venture Finance	3
Bus Adm 466*	Business to Business Sales and Marketing	3
Bus Adm 492	Business Modelings of New Ventures	3

Elective (3 cr)

Choose one of the following courses:

Bus Adm 380	Introduction to Real Estate Markets	3
Bus Adm 444*	Human Resources Management	3
Bus Adm 450*	Intermediate Finance	3
Bus Adm 462*	Marketing Research	3
Bus Adm 465*	International Marketing	3
Bus Adm 467*	Marketing Seminar: (subtitle)	3
Bus Adm 490	Entrepreneur Internship	3
Bus Adm 495	Special Topics in Business (Entrepreneurship topics only)	3
Total		15

* A business student may count no more than 6 credits from a major towards a business certificate.

Students must complete all coursework required for the certificate with at least a 2.5 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.

Certificate in Investment Management

The Investment Management Certificate is designed to offer business students the opportunity to enhance their major field of study in finance (or additional major including finance) with an additional certificate in investment management. Students completing the Investment Management Certificate will have coursework in investment-related subjects and three special courses comprising intensive research and real-time practical training in investment portfolio management. This training will utilize the David O. Nicholas Applied Finance Lab located in the Sheldon B. Lubar School of Business. Finance majors who have completed this certificate will gain a substantial competitive edge in pursuing a career initially as a financial analyst and as an investment advisor, later as an investment portfolio manager, possibly as a chief investment officer, and ultimately, as an independent financier.

To obtain the certificate, a student must complete 18 credits of required coursework while fulfilling all requirements of the baccalaureate degree. It is recommended that students complete Bus Adm 301 (Intermediate Accounting) and Bus Adm 451 (Investment Finance) prior to admission to the program. If not completed prior to admission to the program, Bus Adm 301 and Bus Adm 451 must be taken as co-requisites with Bus Adm 552 (Investment Management Practice I). Due to the intensity of the coursework in the Investment Management Certificate, the program will be of most interest to students pursuing the finance major.

Required Courses (18 cr)

Bus Adm 452*	Applied Portfolio Management	3
Bus Adm 454*	Analysis of Options and Futures	3
Bus Adm 551*	Global Investments	3
Bus Adm 552*	Investment Management Practice I	3
Bus Adm 553	Investment Management Practice II	3
Bus Adm 554	Investment Management Practice III	3
Total		18

** Note: A business student may count no more than 6 credits from a major towards the Certificate in Investment Management.*

Eligibility. To apply to the Certificate in Investment Management program, students must be admitted to the Lubar School of Business, have earned a minimum B grade in Bus Adm 201 (Introduction to Financial Accounting) or Bus Adm 207 (Business Scholars: Intro to Financial Accounting), be eligible to enroll in Bus Adm 301 (Intermediate Accounting), and have completed or be enrolled in Bus Adm 450 (Intermediate Finance). Admission is competitive and is based on cumulative GPA, quantitative-related course grades, personal statement, a possible interview and interview essay, interest in investments and finance, and other considerations.

Internship Requirement. Students completing the certificate also are required to have an internship experience prior to graduation from the certificate program. The internship experience must be approved by the IMCP director.

Graduation Requirements. Students must complete all coursework required for the certificate with at least a 3.0 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414)

229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

Certificate in Technology Entrepreneurship

The online Certificate in Technology Entrepreneurship is designed for business or engineering students who desire a sequence of undergraduate level courses that focus specifically on Technology Entrepreneurship and that are delivered through an online instructional environment. The focus of the certificate is to prepare students to meet the growing global need for individuals who can think innovatively and successfully pursue the commercialization of their innovative ideas and technological solutions, either independently or within the confines of an established organization. Students who complete this certificate will gain a substantial competitive edge in pursuing a career – either as an engineer or as a business specialist – by combining their entrepreneurial skills and capabilities with their particular field of expertise. The program will prepare students for fast-track leadership positions in technology-based and/or manufacturing companies.

Required Courses (15 cr)

Bus Adm/MechEng 542	Introduction to Technology Entrepreneurship	3
Bus Adm/MechEng 543	Introduction to Technology Management and Innovation	3
Bus Adm/MechEng 544	New Product Development	3
Bus Adm/MechEng 546	Global Innovation Management	3
Bus Adm/MechEng 548	Technology Venturing Project	3
Total		15

In addition, to fulfill graduation requirements, students will complete pre-approved, zero-credit professional activities.

A maximum of 6 credits from the Undergraduate Certificate in Technology Entrepreneurship may also count toward other UWM undergraduate degrees.

Eligibility. Students currently enrolled in a UWM business or engineering undergraduate program (or at any other accredited engineering or business baccalaureate program) are eligible to earn the Certificate in Technology Entrepreneurship. This certificate is also open to business and engineering graduates. For more information regarding the application process, business majors may contact Undergraduate Student Services (LUB N297) or call 414-229-5271, and CEAS majors may contact the Student Advising Office (EMS E386) or call 414-229-4667.

Graduation Requirements. Students must complete all coursework required for the certificate with at least a 2.5 GPA to have the certificate posted on the transcript at graduation. Students must complete all certificate courses within 3 years of initial enrollment in the certificate program.

Joint Degree Program

A student who plans to pursue a joint degree business program with another UWM college or school should seek advising early to design an appropriate program. The student must concurrently complete all requirements for the degree in the area other than the Lubar School of Business, as well as the requirements in the Lubar School of Business, as indicated below in the requirements for a second bachelor's degree.

A student electing to pursue a joint degree should submit a proposed program of study to the Lubar School of Business as soon as possible.

Academic Regulations

For information on the University-wide Academic Action Policy and honors for scholarship, see [Academic Information](#).

Semester Course Load. A full-time undergraduate student in business administration takes a class load of 12 to 18 credits.

Other Options

Second Bachelor's Degree. A student with an accredited bachelor's degree may work toward a second bachelor's degree in the Lubar School of Business. Interested students should contact the academic advisors in Room N297 of Lubar Hall for further details. The second bachelor degree program is not offered in accounting.

Degree requirements include completion of these BBA requirements: functional courses, administrative analysis and techniques courses, a professional major, and mathematics and economics courses. Of these, at least 30 credits must be earned in residence at UWM while classified as a second-degree candidate. Students may receive credit towards a second bachelor's degree for coursework taken in equivalent areas at other institutions. However, at least 50% of the business credit hours required for the business degree must be completed at UWM.

Business Special Student Opportunities. Business Special Student status is available to applicants who have earned a baccalaureate degree at an accredited university or college. Also eligible for consideration are students needing one or two courses to complete a degree from another accredited institution. Business Special Students are eligible to take undergraduate courses only.

Applications should be submitted directly to the Lubar School of Business (Room N297, Lubar Hall) and should include: 1) an official degree transcript of undergraduate work; 2) official transcripts of graduate and other work completed; and 3) a statement of goals and objectives as a special student, along with a listing of requested courses. Applications are reviewed weekly. Applicants without a degree who wish to take one or two courses in order to graduate from another institution must also submit a statement from their advisor, on official letterhead, verifying the circumstances and courses required.

Post-baccalaureate Opportunities. Students who have completed a BBA degree at UWM can return to the campus and complete an additional business major. Students who have completed a bachelor's degree in business at another accredited university can earn a Certificate of Major in the School. The Certificate of Major consists of a minimum of 12 UWM degree credits. The additional major option is not available in accounting.

Academic and Career Counseling

To meet the needs of a diverse student population, the Lubar School of Business schedules classes throughout a 14-hour day, offers access to many internship and part-time job opportunities, and provides an array of services.

Academic Advising Services. Undergraduate Student Services, Lubar Hall Room N297, (414) 229-5271, offers academic counseling with professional staff members who are familiar with the curriculum and the special needs of business students. They provide services such as new student orientation, program advising, course selection, registration guidance, and credit transfer. The Center's full-time academic advisors are trained to provide all the technical information needed for students to make their own decisions regarding their education.

It is, however, the responsibility of the student to satisfy all requirements for graduation from the Lubar School of Business. All students should meet with an academic advisor at least once a semester. The advisors are a knowledgeable and supportive resource for students. The Center has late hours on Mondays and Tuesdays during the academic year, and the staff is available on an appointment or walk-in basis.

Career Services. The Lubar School of Business Career Services Center, located in Room N203 of Lubar Hall, complements the services offered by UWM's Career Planning and Resource Center and meets the special needs of business students. Interview facilities are provided to firms hiring Business School graduates, and the Center's staff

helps students prepare for professional employment through internship programs and part-time employment referrals. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas.

Online national job searches and an alumni placement service are other services offered. Please call (414) 229-5445 for further information.

Student Organizations

There are many professional fraternities, clubs, and honorary organizations for students interested in business administration. These organizations offer the student an opportunity to gain practical understanding from professionals working in a chosen field. Examples of student organizations in the Lubar School of Business include:

Alpha Kappa Psi - national professional business administration fraternity.

American Marketing Association - campus chapter of the national professional organization of the same name.

Beta Alpha Psi - national professional honor society for students majoring in accounting.

Beta Gamma Sigma - national scholastic honor society for business administration students.

Collegiate Entrepreneurs Organization - national network for students interested in owning and running a business.

Delta Sigma Pi - professional fraternity open to all business or economics students.

Future Healthcare Executives (FHE) as part of the American College of Healthcare Executives (ACHE) - student chapter of national organization for students in MS-Health Care Management program.

Graduate Business Association - open to all MBA, MS, and PhD students.

Lubar School of Business Black & Gold Committee - business students interested in enhancing the student experience.

Logistics, Operations, and Management Information Systems - for students interested in professional development and increasing exposure to supply chain and operations management and information technology industries.

National Association of Black Accountants, Inc. - campus chapter of the national professional organization of the same name.

Society for Human Resources Management - campus chapter of the national organization for students interested in careers in personnel/human resources.

Student Investment Club - for undergraduate students interested in finance.

Women in Business (WIB) - Women in Business is a community for career- and academically-driven women that provides resources and opportunities for members and empowers women in the business community. Activities include networking and career development events, professional speaker events, community outreach and volunteer activities, social events for members, and annual fundraising.

Student Academic Appeals

Students may appeal an academic action to the appropriate curriculum committee. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to Lubar Undergraduate Student Services. Undergraduate student appeals are

reviewed by the School's Undergraduate Program Committee's Appeals Subcommittee. Students are advised in writing of the decision of the Committee. The Appeals Subcommittee considers individual cases concerning the degree requirements and other academic rules and regulations established by the Lubar School of Business faculty.

The Lubar School of Business has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Student Services Center. As a first step, students must discuss the grievance with the faculty member or administrator within 30 working days from the date of the action that prompted the grievance.

Faculty and Staff

[List of Faculty and Staff](#)

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Sheldon B. Lubar School of Business

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EDUCATION

*Office of Student Services
Enderis Hall, Room 209
(414) 229-4721*

Degree Programs

Bachelor of Science Community Engagement and Education, Education, Exceptional Education

Master of Science Administrative Leadership, Curriculum & Instruction, Educational Psychology, Exceptional Education, Cultural Foundations of Education

Educational Specialist School Psychology

Doctor of Philosophy Urban Education, Educational Psychology

The School of Education prepares educators who seek careers in schools, and offers training for educators who want to work in non-school settings such as business, industry, and community agencies.

The faculty provide consulting and inservice assistance to school systems at the local and national levels. Practitioners have opportunities to update knowledge and extend expertise through inservice work and through enriched study in five master's degree programs and Wisconsin's only PhD in Urban Education.

Programs in the School of Education leading to professional roles in public schools are approved by the Wisconsin Department of Public Instruction (DPI).

Requirements for Employment, Licensing, or Professional Organizations. Applicants to School of Education programs that involve student teaching, practicum, internship, or other field placements must complete an information disclosure statement and be subject to a criminal background check to comply with placement site requirements and state regulations. Criminal background checks are required by state law to help employers and government officials in making employment and licensing decisions. The Wisconsin Department of Public Instruction (DPI) conducts a check as part of licensing. Agencies regulated by the Division of Health and Family Services must have on file a criminal background check for persons who have access to clients within caregiving organizations, including students.

Students in a program with a clinical experience must undergo a criminal background check at the time of admission to the School of Education, or prior to placement in a major clinical experience if that occurs earlier. The student will be charged the cost of the background check administered through School of Education procedures. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Contact the Office of Clinical Experiences for further details.

Teacher License Applications

Wisconsin Department of Public Instruction License Application Forms and information about applying for a teaching license may be obtained from the Office of Student Services, Enderis Hall, Room 209, or by calling (414) 229-4153.

A departmental recommendation for certification is required. This recommendation is not automatic upon graduation or completion of a post-baccalaureate certification program. After all program requirements have been completed, a student may submit a license application to the Office of Student Services, Enderis 209, for processing.

The DPI conducts a criminal background check of each applicant for a teaching license. If you have ever lived, worked, or attended school outside of Wisconsin since the age of 18, you are also required to complete fingerprint cards as part of your criminal background check. Based on this information, an applicant may be denied a license even if recommended for certification by the University. The DPI takes 12 to 16 weeks to process an endorsed license.

Advising

Advisors provide students with the academic advice and information that will assist them in completing degree programs and becoming professionals in urban education. Advisors are available on a walk-in basis, by appointment, by phone, or online.

Field Experience

Students are required to complete a full-day/full-semester student teaching experience during the final year in the teacher education program. However, many programs require more than one semester of student teaching. For information, please call (414) 229-4352.

Post-Baccalaureate Certification Program

Students who already hold a bachelor's degree and seek certification must meet the following minimum criteria when submitting an application: completion of a bachelor's degree, a cumulative undergraduate grade point average of 2.5, and passing basic skills test scores. Applicants to the Early Adolescence Through Adolescence programs are required to have a minimum GPA of 2.75 in their majors.

Students interested in a post-baccalaureate certification program in Curriculum and Instruction will be denied admission if they have a grade of C- or below in any prior student teaching experience, or if they have been previously counseled out of student teaching and/or have graduated without certification from a teacher education program because of poor performance in student teaching.

Additional criteria may be required for some programs. For specific admission and program information, contact the Office of Student Services.

Programs of Study Leading to Certification

Early Childhood Level. Teachers are prepared to teach at the approximate ages of birth through 8.

Middle Childhood Through Early Adolescence Level. Teachers are prepared to teach pupils at the approximate ages of 6 through 12 or 13. Students who are interested in pursuing exceptional education certification have the option of doing so as a fifth year post-baccalaureate student.

Early Adolescence Through Adolescence Level. Teachers are prepared to teach pupils at the approximate ages of 10 to 21. Several teaching subjects, such as English, mathematics, science, and social studies, fall into this licensure category.

Early Childhood Through Adolescence Level. Teachers are prepared to teach at the ages of birth through 21. Several teaching subjects, such as world languages and English as a Second Language, fall into this licensure category.

Exceptional Education. Teachers are prepared to work at the early childhood, middle childhood through early adolescence, and early adolescence through adolescence levels. The Deaf and Hard of Hearing program prepares students for teaching early childhood through adolescence.

Other School Service Positions: Reading teacher, school counselor, school psychologist, school administrator.

Programs of Study Not Leading to Certification

Community Engagement and Education. A non-certification bachelor's degree program for community-based educators. For admission and program information, contact the Office of Student Services at (414) 229-4721.

Interpreter Training Program (ITP). Offered through the Department of Exceptional Education, this program prepares students to meet the needs of deaf and hard of hearing individuals in a variety of settings. It is available as a two-year post-baccalaureate certificate or as part of an undergraduate bachelor's degree. Contact the Office of Student Services at (414) 229-4721.

American Sign Language Studies. Offered through the Department of Exceptional Education, the ASL Studies program provides a rich educational experience that allows for students to develop both linguistic proficiency and a deep respect for the Deaf culturo-linguistic community. For information, contact the Office of Student Services at (414)

229-4721.

DPI Certification Programs in Other Schools and Colleges

Specific degree programs are managed by schools and colleges outside of the School of Education. The certification process is handled by the School of Education.

Fine Arts Education. Programs leading to a Bachelor of Fine Arts degree with certification to teach art, dance, music, or theater are offered by the Peck School of the Arts. For additional information, contact the office of the Administrator of Student Affairs, Peck School of the Arts. Post-baccalaureate programs are available in art, music, dance, and theater.

Communication Sciences and Disorders. State certification as a speech pathologist requires completion of a master's degree. Work toward this license should be started at the undergraduate level. Undergraduate students, as well as those who already hold a bachelor's degree, should contact the Department of Communication Sciences and Disorders in the College of Health Sciences.

Instructional Library Media. The School of Information Studies, in collaboration with the School of Education, offers post-baccalaureate programs leading to State of Wisconsin licensing as Initial Instructional Library Media Specialist and Instructional Library Media Supervisor.

School Social Work. The Helen Bader School of Social Welfare, in conjunction with the School of Education, offers a program leading to State of Wisconsin licensing as a school social worker.

Continuing Education for Teachers

Teachers who need to earn credits to renew a teaching license to meet local school system or state Department of Public Instruction requirements should contact the Office of Student Services at (414) 229-4271 for information and admission.

Enrollment Plans for Undergraduate Programs

Community Engagement and Education students enroll in the School of Education through the Department of Educational Policy and Community Studies. Students planning to major in Educational Studies or in any teacher education program register as pre-education students. They follow the general curriculum requirements of their proposed major in the School of Education and are advised by faculty and staff in the School. All academic actions such as adds, drops, permission to continue, withdrawals, etc., are approved by designated staff in the School of Education.

Admission

Students in all programs except Community Engagement and Education must apply for admission to the School of Education. Students who apply to the School of Education must meet the minimum admission requirements of the School and of their program that exist at the time of their admission application.

Individual Program Requirements. *Specific program requirements are listed in each program section.* To be admitted, students must apply to and be accepted into a specific program. Academic major/minor forms for early adolescence through adolescence education majors and proposal forms for all other programs require the faculty advisor's signature prior to submitting the application to be accepted into a specific program. Applicants should follow specific admission procedures for their program.

Application Submission. Application periods for admission vary by program. Most programs have September and January deadlines. Contact the Office of Student Services each semester for details.

Application Review. All applications are reviewed by faculty of the appropriate department. If admission is deferred or denied, the student may consult with the appropriate department chairperson and/or request a hearing under appeals procedures. The School of Education reserves the right to limit admission due to staffing and space limitations. Enrollment as a pre-education student and/or meeting the minimum requirements does not guarantee admission to a

professional education major in the School of Education.

A student who transfers from one program to another within the School must re-apply and meet requirements in effect for that program at the time of transfer.

Re-entering Students. Students who do not maintain continuous enrollment/registration at the university should meet with their advisor upon re-entry. It is possible that the program requirements were revised in their absence.

If a student is out for more than one full semester (not including Summer Session), the student must meet the program and graduation requirements in effect at the time of his or her return. Options will be discussed on a case-by-case basis.

An admitted student who has not been enrolled for two or more semesters may be required to re-apply for admission. Students admitted into the post-baccalaureate program have five years from the semester of admission to complete their program.

Please refer to specific programs for additional information on admission requirements.

Degree Requirements

1. Satisfactory completion of a minimum of 128 credits or 120 credits, depending on program and the requirements of the student's curriculum.
2. Satisfactory completion of the School of Education core curriculum requirements and the University's General Education Requirements. See individual department and program general education core curriculum requirements for the credits required and the distribution.
3. For professional education certification programs, a minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as any grades earned in student teaching or field experiences. General education coursework and/or electives that do not fulfill requirements towards certification will not be included in the cumulative GPA calculation.
4. Completion of the last year of work (30 credits) in residence at UW-Milwaukee. Special permission to earn credits on another campus of the UW System, at another institution, or through correspondence work from the UW Extension must be obtained in advance. Students should meet with their academic advisor. Students who transfer to UWM from any accredited institution must take a minimum of 18 hours of graded credits at UWM to establish a GPA for graduation.

Substitution for Requirements. Any variations from the approved curriculum in the student's program must be approved in writing by the student's faculty advisor, department chair, and the Associate Dean for Academic Affairs. This must be done in advance of course selection.

Change in Requirements. When a change in program or graduation requirements is adopted, students currently enrolled may complete either the new requirements or those in effect at the time of their admission to the School of Education, but not a combination. Changes in state requirements for teacher certification may lead to changes in requirements in a student's program. Satisfaction of state requirements is necessary for eligibility for teacher certification.

Advisement Report. Students who have been admitted to a major will have an Advisement Report indicating course requirements completed as well as those needed. The Advisement Report assists students in planning future semesters, and is one of the documents used in clearing Education students for graduation. Community Engagement and Education students contact the Department of Educational Policy and Community Studies for their summaries and graduation clearance.

Curriculum for Teacher Education Programs

All teacher education programs in the School of Education follow a basic pattern of required courses as described in the following sections. For each standard, a set of knowledge and performance indicators is given to students so that they understand the expectations of the program.

Portfolio. Each student will be required to keep a portfolio of evidence to document progress toward the standards. The portfolio is developmental and will be reviewed at several points during a student's program to ensure that appropriate progress is being made. The portfolio will play a critical part in determining final recommendations for certification.

Praxis Subject Assessment. The State of Wisconsin requires all certification students to pass the Praxis II exam. This test covers the subject matter that the teacher is expected to teach. Students should consult an advisor or program director about the specific exam from the Praxis II series that is required for their certification. A passing score on the appropriate content test is required for admission into student teaching.

edTPA (Teacher Performance Assessment). The State of Wisconsin requires all certification students who complete after August 31, 2015, to pass the edTPA. The edTPA is a multiple-measure assessment system aligned to state and national standards. Students should consult an advisor or program coordinator for specific information.

Foundations of Reading Test. Students in the Early Childhood, Middle Childhood-Early Adolescence, Special Education, Reading Teacher, and Reading Specialist certification programs will be required to pass the Foundations of Reading Test. This applies to any license received by the Wisconsin DPI starting January 1, 2014. Students should consult an advisor or program coordinator for specific information.

General Requirements. The core curriculum requirement, which is part of the general education component of all teacher education programs, includes credits from the categories of fine arts, humanities, natural sciences, and social sciences. General requirements are chosen to provide a broad general education background.

Subject Specialization Requirements. See individual program requirements.

Human Relations Certification Requirement. The Human Relations Requirement provides prospective teachers with awareness and understanding of intercultural relations within the educational setting. The requirement is met with coursework and classroom experience.

Effective July 1, 1992, a license to teach may not be granted unless the applicant has received instruction in the study of minority group relations, including instruction in the history, culture, and tribal sovereignty of American Indian tribes and bands located in this state. Currently, this requirement is met through satisfactory completion of Ethnic 203, Anthro 213, Hist 263, or English 276, or seminar attendance. Questions regarding this requirement should be directed to the student's academic advisor.

Exceptional Education Requirement. Persons applying for an initial license to teach any subject in Wisconsin elementary and secondary schools must demonstrate knowledge and understanding of procedures used for assessing and providing education for children and youth with disabilities, including the roles and responsibilities of regular and special education providers. See the program requirements for your teaching major for information about meeting the requirement.

Statutory Requirements for Teachers of Early Adolescence Through Adolescence Science and Social Studies. A student may satisfy the requirement in environmental education by taking Geog 350, CES 471, or CES 201, or by submitting evidence that the statutory requirement has been otherwise fulfilled. Teachers of science must have coursework in the history and philosophy of science. Early adolescence through adolescence social studies students may satisfy the requirement in cooperative marketing and consumers' cooperatives by taking CurrIns 313, or by submitting evidence that the statutory requirement has been otherwise fulfilled. Econ 100 is a prerequisite for CurrIns 313. The Phonics Requirement is met with a variety of Curriculum and Instruction courses.

Statutory Requirement for Early Childhood and Middle Childhood Through Early Adolescence Teachers. Effective July 1, 1985, adequate preparation in conservation of natural resources (environmental education) is required for these majors.

Student Teaching

Student teaching experiences are designed to promote a student's ability to integrate learning and practice and to give the student opportunities to teach independently and collegially in urban school settings. Students are required to complete a full-day/full-semester student teaching experience during the final year in the teacher education program. However, many programs require more than one semester of student teaching.

Early Childhood. Please see an advisor or program coordinator for specific requirements.

Middle Childhood Through Adolescence. Please see an advisor or program coordinator for specific requirements.

Early Adolescence Through Adolescence. Early Adolescence through Adolescence program students typically complete a middle school student teaching placement as their first placement in conjunction with subject area methods, middle school curriculum, and "Fieldwork in Reading in the Content Area." During the final placement they are assigned to a high school for a full-day, full-semester experience in which the calendar and daily schedule of the cooperating school district is followed. Assignments and grade levels may vary by program.

Exceptional Education. Students are required to complete a full semester of student teaching unless they have a current Wisconsin teaching license. Field experiences are required for most programs.

Student Teaching: General. The number of student teachers that each program can accommodate in any given semester is limited by the availability of approved placements and supervisors; therefore, departments in the School of Education reserve the right to limit their student teaching enrollment. Admission to the School of Education does not automatically guarantee admission to student teaching.

The field experience coordinator for the School of Education makes all necessary administrative arrangements for student teaching placements and communicates placement information to students in writing. Because of the number of individuals involved in the placement process, and because established procedures have been approved by cooperating school personnel, students should not contact schools to arrange placements.

Students must earn a grade of C or better in all student teaching courses to be eligible for recommendation for certification.

Application for Placement. Students who plan to register for any student teaching course in the fall or spring must apply by February 15 of the academic year preceding placement(s). Applications for student teaching are available in the Office of Clinical Experiences, Enderis 371, or online at <http://uwm.edu/education/academics/clinical-experiences/>.

Student Teaching Eligibility Requirements for All Programs. Listed below are the minimum eligibility requirements for admission to student teaching. Some subject areas require a higher grade point average and/or additional coursework as prerequisites to student teaching.

1. Admission to a School of Education Certification Program.
2. Completion of all required coursework, including teaching methods and pre-student teaching fieldwork, as outlined for each program during the semester prior to student teaching.
3. An overall cumulative GPA of at least 2.5 and a GPA requirement of the student's specific program. A GPA of 2.75 in all professional and major/minor courses is required to qualify for student teaching.
4. Passing score on the Praxis II content test. For Exceptional Education programs, a passing score is required for admission to the final semester of teaching experience.
5. Removal of all F or I (incomplete) grades in courses that count toward graduation or certification.
6. Evidence of freedom from tuberculosis.

7. Some school districts require a criminal background check prior to accepting a student for clinical placement in the district.

Please refer to specific programs for additional requirements.

Certification Requirements

Applicants for certification in the State of Wisconsin are required to achieve a minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as any grades earned in student teaching or field experiences. General education coursework and/or electives that do not fulfill requirements towards certification will not be included in the cumulative GPA calculation.

Applicants for certification in the State of Wisconsin are subject to a criminal background check prior to the granting of a teaching license.

The State of Wisconsin requires a content test for certification. This test covers the subject matter that the teacher is expected to teach. Students should consult an advisor or program director about the nature of the tests that are required.

Academic Regulations

For information on academic actions for unsatisfactory grades and honors for scholarship, see [Academic Information](#), University-Wide Academic Action Policy and Honors for Scholarship.

Semester Course Load. An overload for undergraduate and special students in the School of Education is 18 or more credit hours during a regular semester. Students who want to take an overload during a regular semester should contact their academic advisor.

Any student in the School of Education who takes an unapproved overload will not be permitted to count the overload credits toward graduation and/or certification. The particular credits that would not be counted toward graduation will be designated by the student's advisor and approved by the Associate Dean for Academic Affairs.

Substitution for Requirements or Courses. Any variations from the approved curriculum in the student's program must be approved in writing by the student's faculty advisor, department chair, and the Associate Dean for Academic Affairs. This must be done in advance of course selection.

Special Opportunities

Departmental Examinations. Departments may grant degree credit to a student who, instead of taking a course, requests and passes an examination administered by the department on the content of that course.

Permission to take such examinations must be obtained from the Associate Dean for Academic Affairs, Enderis Hall 583, who will require a recommendation from the department chairperson or program director to whom evidence of work justifying an examination must be presented by the student.

Study Abroad. Qualified students can complete equivalent coursework in another country. For information, consult the Office of Student Services, Enderis Hall 209.

ADMINISTRATION

Alan Shoho

Dean

Hope Longwell-Grice

Associate Dean, Academic Affairs

ADMINISTRATIVE LEADERSHIP

Delbert K. Clear, Assoc. Prof. Emeritus

Carol Colbeck, Prof., PhD

Stanford University

Simone Conceição, Assoc. Prof., PhD

University of Wisconsin-Madison

Barbara Daley, Prof., PhD

Cornell University

James Fisher, Assoc. Prof. Emeritus, PhD

William Kritek, Prof. Emeritus, PhD

Larry Martin, Prof. Emeritus, PhD

Liliana Mina, Asst. Prof., PhD

Michigan State University

Gail Schneider, Prof. Emerita, PhD

Alfonzo Thurman, Prof. Emeritus, PhD

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Craig Berg, Prof., PhD

University of Iowa

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Nancy File, Prof., PhD

Purdue University

Randolph Goree, Sr. Lect. Emeritus, MA

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Richard Haney, Prof. Emeritus, PhD

Jeffrey Hawkins, Assoc. Prof., PhD
University of San Francisco

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Hope Longwell-Grice, Assoc. Prof., PhD
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Tania Mertzman, Assoc. Prof., PhD
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Lawrence Moburg, Assoc. Prof. Emeritus, EdD

Jennifer Mueller, Assoc. Prof., PhD
University of Michigan

Donald Neuman, Prof. Emeritus, PhD

Donna Pasternak, Prof., PhD
New York University

Bette Peltola, Prof. Emerita, PhD

Tracy Posnanski, Assoc. Prof., PhD
University of Wisconsin-Milwaukee

Linda Post, Assoc. Prof., PhD
Syracuse University

Marleen Pugach, Prof. Emerita, PhD

Randall Ryder, Prof. Emeritus, PhD

Mark Schug, Prof. Emeritus, PhD

Ray Scolavino, Sr. Lect., PhD
University of Wisconsin-Milwaukee

Tom Scott, Lect., PhD
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Ruth Short, Assoc. Prof. Emerita, PhD

Cyrus Smith, Assoc. Prof. Emeritus, EdD

John Stewig, Prof. Emeritus, PhD

John Zahorik, Prof. Emeritus, PhD

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Frank Besag, Prof. Emeritus, PhD

Michael Bonds, Assoc. Prof., PhD
University of Wisconsin-Milwaukee

Edgar Epps, Prof. Emeritus, PhD

Raquel Farmer-Hinton, Assoc. Prof., PhD
University of Illinois at Urbana-Champaign

Walter Farrell, Prof. Emeritus, PhD

Ian Harris, Prof. Emeritus, EdD

Julie Kailin, Assoc. Prof., PhD
University of Wisconsin-Madison

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Marie Sandy, Assoc. Prof., PhD
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Aaron Schutz, Prof., PhD
University of Michigan

Rajeswari Swaminathan, Assoc. Prof., PhD
Syracuse University

Javier Tapia, Assoc. Prof., PhD
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Gary Williams, Adj. Asst. Prof., PhD
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Henry Woessner, Assoc. Prof. Emeritus, PhD

EDUCATIONAL PSYCHOLOGY

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University of Toronto

Thomas Baskin, Assoc. Prof., PhD
University of Wisconsin-Madison

Shannon Chavez Korell, Assoc. Prof., PhD
The Pennsylvania State University

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Roberta Corrigan, Prof. Emerita, PhD

Jerry Davis, Prof. Emeritus, PhD

Anne Ellison, Prof. Emerita, EdD

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Anthony Hains, Prof., PhD

University of Notre Dame

Kyongboon Kwon, Asst Prof., PhD

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Susie Lamborn, Assoc. Prof., PhD

University of Denver

Ronald H. Lingren, Prof. Emeritus, PhD

Ann Meyer, Prof. Emerita, PhD

Doug Mickelson, Assoc. Prof. Emeritus, PhD

Martin Sapp, Prof., EdD

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Philip Smith, Prof. Emeritus, PhD

Karen Stoiber, Prof., PhD

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Stephen Wester, Prof., PhD

University of Florida

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Bo Zhang, Assoc. Prof., PhD

University of Pittsburgh

EXCEPTIONAL EDUCATION

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Northwestern University

Dave L. Edyburn, Prof., PhD

University of Illinois

Eve Dicker Eiseman, Clinical Assoc. Prof. Emerita

Alison Ford, Assoc. Prof., PhD
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Richard Fox, Assoc. Prof. Emeritus, PhD

Elise Frattura, Assoc. Prof., EdD
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Judith Winn, Assoc. Prof., PhD
Michigan State University

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School of Freshwater Sciences

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School of Freshwater Sciences

*School of Freshwater Sciences
University of Wisconsin-Milwaukee
600 E. Greenfield Ave.
Milwaukee, WI 53204*

[Contact Information](#)

uwm.edu/freshwater

About Freshwater Sciences

The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas: Freshwater System Dynamics; Human and Ecosystem Health; Freshwater Technology; and Freshwater Policy and Economics. Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic, and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills, and experience to anticipate and address the freshwater issues of the future.

Applied Urban Aquaculture Certificate

Dr. Jhonatan Sepulveda, *Assistant Professor of Freshwater Sciences, Certificate Coordinator*, GLRF 3017, (414) 382-1740, sepulveo@uwm.edu.

The Certificate in Applied Urban Aquaculture is open to all students seeking a bachelor's degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students who are not currently enrolled and have not applied to UW-Milwaukee in the past need to fill out an online application and pay the \$44 application fee. All applicants must submit transcripts that provide evidence of the following required coursework (or equivalent) prior to admission:

- Chemistry 104: General Chemistry & Qualitative Analysis
- Biology 152: Foundations of Biological Sciences II
- Math 116: College Algebra

To formally declare your intent to pursue the Certificate in Applied Urban Aquaculture, complete the Declaration Form and make an appointment with the certificate coordinator.

Program Requirements

Students must complete 15 credits (5 courses) with a minimum grade point average of 2.75. Courses for this certificate may not be taken on a credit/no credit basis.

- Freshwater 511: Ichthyology
- Freshwater 562: Principles of Aquaculture Systems
- Freshwater 563: Finfish Aquaculture & Nutrition Principles
- Freshwater 564: Water Quality in Aquaculture
- Freshwater 565: Fish Health

Credits earned at other accredited institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee. This information should be included on the Declaration Form for approval when you apply to the certificate program.

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- [Global Studies, Bachelor of Arts in](#)
 - [Courses: Global Studies \(Global\)](#)

Bachelor of Science in Applied Mathematics and Computer Science

Bruce Wade, *Professor of Mathematics, Coordinator*, EMS E447, (414) 229-5225, wade@uwm.edu

This course of study leads to a Bachelor of Science in Applied Mathematics and Computer Science awarded jointly by the College of Letters and Science and the College of Engineering and Applied Science. As such, it contains in-depth study in both colleges. The degree retains the flavor of a liberal arts degree through humanities and social science course requirements that go beyond the minima required by the University's general education requirements. The liberal arts coursework will enhance the analytical skills that are the focus of the applied mathematics portion of the curriculum. The computer science coursework will both strengthen the application of mathematics in problem solving and, in turn, be enhanced by the analytical skills acquired through the applied math coursework.

Students who intend to complete the program in four years will need to begin taking mathematics in their first semester. Such students should have a University of Wisconsin-Milwaukee mathematics placement level of B (ready for precalculus) or better.

Admission

As soon as students realize their interest in the AMCS degree, they should consult with an AMCS advisor either in CEAS or L&S, who assists in planning a program. Students may be given the AMCS classification at any point in their studies; however, they are not formally admitted to the major until their junior year. Admission to the junior year of the program requires a GPA of at least 2.500 in 8 credits of mathematics courses at or above the 200 level and 6 credits of computer science courses at or above the 200 level.

General Requirements

For the BS (AMCS) degree, 120 credits are required, of which 80 must be taken from the College of Letters and Science. Students must satisfy the general education requirements (GER) of the University. They must complete at least 6 credits each from humanities and social sciences, 3 credits from the arts, and 6 additional credits in any of these three areas or in foreign languages. Students also must take at least 8 credits of natural sciences outside of mathematics or mathematical statistics, including at least one laboratory course from biological sciences, chemistry, or physics. A cultural diversity course must be included among the humanities and social science courses selected.

An overall GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve a 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.0 GPA must be earned on all 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree by completing at UWM both a minimum of 15 credits of the required advanced courses and one of the following:

- The last 30 credits;

- 45 of the last 60 credits;
- Any 90 credits.

Core Requirements

CompSci 250	Introductory Computer Programming	3
CompSci 315	Introduction to Computer Organization and Assembly Language Programming	3
CompSci 317	Discrete Information Structures	3
CompSci 251	Intermediate Computer Programming	4
Math 231, 232, 233	Calculus and Analytic Geometry	4 each sem (or equivalent)
Math 234 or	Linear Algebra and Differential Equations	4
Math 240	Matrices and Applications	3
Math 341	Seminar: Introduction to the Language and Practice of Mathematics	3

Advanced Requirements

At least 48 credits selected from CompSci, Math, and MthStat courses at the 300 level or above, beyond those listed above, including the following:

CompSci 351	Data Structures and Algorithms	4
CompSci 535	Algorithm Design and Analysis	3

9 additional credits in CompSci

12 credits from Math and/or MthStat, including one of the following two-course sequences:

Math 313/315	Linear Programming and Optimization/Mathematical Programming and Optimization	3 cr each sem
Math 320/322	Introduction to Differential Equations/Introduction to Partial Differential Equations	3 cr each sem
Math 413/415	Introduction to Numerical Analysis/Introduction to Scientific Computing	3 cr each sem
Math 521/522	Advanced Calculus	3 cr each sem
Math 531/535	Modern Algebra/Linear Algebra	3 cr each sem
Math 631/632	Modern Algebra	3 cr each sem
MthStat 361/362	Introduction to Mathematical Statistics I & II	3 cr each sem

Honors in the Degree

Students in AMCS who meet all of the following criteria can be awarded honors in the degree upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses attempted that count toward the AMCS degree;
3. A 3.500 GPA over all upper division UWM courses counting toward the AMCS degree;
4. A grade of B+ or better in one of: Math 599 (Capstone Experience), Math 699 (Independent Study), CS 595 (Capstone), or CS 699 (Independent Study);
5. Completion of 3 credits in Mathematical Sciences (curricular areas MATH or MTHSTAT) or Computer Science in a course numbered 600 or higher that is different from Math 699 and CS 699.

Potential Course of Study

Fall I: 14 credits

CompSci 250	Introductory Computer Programming	3
English 101	Introduction to College Writing	3
Math 116	College Algebra	3
Math 117	Trigonometry	2

Humanities or Social Science 3

Spring II: 17 credits

CompSci 251	Intermediate Computer Programming	4
English 102	College Writing and Research	3
Math 231	Calculus and Analytic Geometry	4
Arts		3

Humanities or Social Science 3

Fall III: 17 credits

CompSci 315	Introduction to Computer Organization and Assembly Language Programming	3
CompSci 351	Data Structures and Algorithms	4
Math 232	Calculus and Analytic Geometry	4
Math 341	Seminar: Introduction to the Language and Practice of Mathematics	3

Humanities or Social Science 3

Spring IV: 14-15 credits

CompSci 317	Discrete Information Structures	3
Math 233	Calculus and Analytic Geometry	4
Math 234	Linear Algebra and Differential Equations	4

Natural Science with lab 3-4

Fall V: 15 credits

CompSci 535	Algorithm Design and Analysis	3
CompSci or Math elective		6
Math sequence course		3

Natural Science 3

Spring VI: 15 credits

CompSci advanced elective		3
Math sequence course		3
Math advanced elective		3

Math advanced elective	3
Math or CompSci elective	3

Fall VII: 15 credits

CompSci advanced elective	3
Math advanced elective	3
Math or CompSci elective	3
Humanities or Social Science	6

Spring VIII: 13-15 credits

CompSci or Math advanced electives	12
Elective	1-3

(Note: Select a sufficient number of elective credits from the College of Letters and Science to earn a minimum of 80 L&S credits.)

Food Studies Certificate Program

Lori Klos, *Assistant Professor, Kinesiology, Co-Coordinator*, END 455, (414) 229-3162, neighbol@uwm.edu
 Larry Kuiper, *Associate Professor, French, Co-Coordinator*, CRT 782, (414) 229-5966, kuiper@uwm.edu

The interdisciplinary undergraduate certificate program in Food Studies explores the many facets of food, from the field and sea to the table, through the lenses of the arts, humanities, and natural and social sciences. Combining courses in the Liberal Arts and Health Sciences, it addresses the production and consumption of food and its symbolic and ideological meanings, across cultures and over time, from the beginning of agriculture to globalization.

The Certificate in Food Studies is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular University admission requirements. The Certificate is awarded jointly by the College of Health Sciences and the College of Letters and Science.

Students concurrently enrolled in a degree program who successfully complete the certificate program requirements will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon completion of the program requirements. Graduate students are eligible to pursue the Food Studies certificate concurrently with their graduate studies, and they will be awarded the certificate upon completion of the program requirements.

Program Requirements

To earn the certificate, students must complete 18 credits in approved Food Studies courses, with a minimum grade point average of 2.500, including:

- FoodBev 101: Introduction to Food Studies (3 cr), with a grade of C or better.
- At least 12 credits selected from the approved courses list, including one course each in the humanities and the

social sciences.

- At least one course in natural or health sciences, nursing, or engineering.
- A senior research course, taken either as FoodBev 699 (independent study) or as a senior research or capstone course offered by another program and approved as a Food Studies content course.

Of the 18 required credits, at least 9 credits must be taken at the advanced level (courses numbered 300 and above) and at least 9 credits must be taken in residence at UWM. No more than 9 credits in one curricular code may be counted towards the certificate. Students are limited to 3 credits in independent studies and 3 credits in internships.

Approved Electives

The following courses are approved to count toward the Food Studies Certificate. Additional courses may be found each semester in the *Schedule of Classes*. In addition, students are encouraged to consult the Program Coordinators and to petition for the inclusion of relevant courses as appropriate.

Anthro 156	Food and Culture
Anthro 441	Nature, Knowledge, and Technoscience in Anthropological Perspective
BMS 232	Introduction to Nutrition
BMS 290	Topics in Health Sciences: "Introduction to Food Principles and Preparation"; "Life Cycle Nutrition" subtitles
BMS 332	Clinical Nutrition
BMS 590	Current Topics in Human Kinetics: "Community Nutrition in Action"; "Public Health Nutrition" subtitles
CES 571	Practical Approaches to a Sustainable Future
Chinese 160	A Taste of China: Learning Chinese Culture and Society Through Cuisine
CompLit 350	Topics in Comparative Literature: "Discovering Food" subtitle
CompLit 360	Seminar in Literature and Cultural Experience: "Cuisine, Community, and Literature" subtitle
CompLit 461	Film-Fiction: "Global Food Narratives" subtitle
English 515	Literature and the Other Arts: "Eating English Literature" subtitle
English 625	Seminar in Literary History: "Eating English Literature" subtitle
FoodBev 102	Taste: The Culture and Science of Fermentation
FoodBev 199	Independent Study
FoodBev 289	Internship in Food Studies, Lower Division
FoodBev 297	Study Abroad: (subtitle)
FoodBev 299	Ad Hoc: (subtitle)
FoodBev 489	Internship in Food Studies, Upper Division
FoodBev 497	Study Abroad: (subtitle)
FoodBev 499	Ad Hoc: (subtitle)
FoodBev 699	Advanced Independent Study
French 145	Views of France: "Learning French Culture Through Cuisine" subtitle
French 432	Seminar in French and Francophone Cultures: "Cuisines et Cultures Françaises" subtitle
German 145	Views of Germany: "Beer, Bread, and Brats" subtitle
Hist 600	Seminar in History: "Food, Culture, and Power"; "Food and the City" subtitles
Italian 256	Introduction to Italian Food Studies: A Cultural History
Italian 456	Topics in Italian Food Studies: (subtitle)
Japan 220	Introduction to Japanese Food Studies
Jewish 299	Ad Hoc: "Exploring Israel's Culture, Food, History, and Language" subtitle
Kin 241	Why We Eat What We Eat: An Ecological Approach

Kin 290	Special Topics in Human Movement Sciences: "Nutrition for the Health Professions" subtitle
ReligSt 350	Advanced Topics in Religious Studies: "Religion in Daily Life: Food, Drink, and Clothing" subtitle
Spanish 225	Understanding the Hispanic World: "Food and Culture: Beyond Tacos and Paella" subtitle
Urb Std 360	Perspectives on the Urban Scene: "You Are Where You Eat: Urban Food Geographies" subtitle

[Food Studies \(FOOD\)](#)

Forensic Sciences Certificate Program

- [Certificate in Death Investigation](#)
- [Certificate in Forensic Science](#)
- [Certificate in Forensic Toxicology](#)

Fred Anapol, *Professor of Anthropology, Director, Center for Forensic Sciences*, (414) 229-0510, cfs@uwm.edu

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Curricular Requirements

To receive one of the following certificates, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete Chem 100 (Chemical Science) or equivalent and Bio Sci 100 (Survey of Zoology) or equivalent.

Note: The abbreviation ABCC is used in the course listings below to represent the four departments/programs that are jointly offering these courses: Anthro/BMS/Chem/Crm Jst; students may enroll in the courses under any of the four curricular areas.

Certificate in Death Investigation

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

ABCC 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ABCC 285	Medicolegal Death Investigation	3
ABCC 481	Criminalistics	3
Anthro 403	The Human Skeleton	3
Anthro 405	Forensic Anthropology	3
Crj Jst 110	Introduction to Criminal Justice	3
Crj Jst 480	Criminal Evidence and Investigation	3
One of:		
BMS 610	Pharmacology	3
HCA 212	Drugs Used and Abused	3

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

ABCC 585	Internship in Forensic Toxicology	1-3
ABCC 589	Internship in Death Investigation	1-3
ABCC 594	Internship in Forensic Science	1-3
Anthro 404	Seminar in Human Evolutionary Physiology	3
Bio Sci 539 (663)	Laboratory Techniques in Molecular Biology	4
Chem 194	First-Year Seminar (with forensic subtitle)	3
Chem 524	Intermediate Analytical Chemistry	3-5
Chem 602	Biochemistry: Cellular Processes	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1
BMS 620	Forensic Pathology	2

Certificate in Forensic Science

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

ABCC 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ABCC 481	Criminalistics	3
Crj Jst 110	Introduction to Criminal Justice	3
Crj Jst 480	Criminal Evidence and Investigation	3
One of:		
Anthro 403	The Human Skeleton	3
Anthro 404	Seminar in Human Evolutionary Physiology	3
One of:		
BMS 610	Pharmacology	3
HCA 212	Drugs Used and Abused	3
One of:		
Bio Sci 539 (663)	Laboratory Techniques in Molecular Biology	4
Chem 602	Biochemistry: Cellular Processes	3
BMS 560/561	Molecular and Genetic Diagnostics/Molecular Diagnostics Laboratory	3

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

ABCC 285	Medicolegal Death Investigation	3
ABCC 585	Internship in Forensic Toxicology	1-3
ABCC 589	Internship in Death Investigation	1-3

ABCC 594	Internship in Forensic Science	1-3
Anthro 405	Forensic Anthropology	3
Chem 194	First-Year Seminar: (with forensic subtitle)	3
Chem 524	Intermediate Analytical Chemistry	3-5
One of:		
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 620	Forensic Pathology	2

Certificate in Forensic Toxicology

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

ABCC 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ABCC 481	Criminalistics	3
Chem 524	Intermediate Analytical Chemistry	3-5
BMS 610	Pharmacology	3
Crm Jst 110	Introduction to Criminal Justice	3
Crm Jst 480	Criminal Evidence and Investigation	3
One of:		
Anthro 403	The Human Skeleton	3
Anthro 404	Seminar in Human Evolutionary Physiology	3

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

ABCC 285	Medicolegal Death Investigation	3
ABCC 585	Internship in Forensic Toxicology	1-3
ABCC 589	Internship in Death Investigation	1-3
ABCC 594	Internship in Forensic Science	1-3
Anthro 405	Forensic Anthropology	3
Bio Sci 539 (663)	Laboratory Techniques in Molecular Biology	4
Chem 194	First-Year Seminar: (with forensic subtitle)	3
Chem 602	Biochemistry: Cellular Processes	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1
BMS 620	Forensic Pathology	2

Global Health Certificate

Anne Dressel, *Director, Center for Global Health Equity, Nursing, CUN 566, (414) 229-3995*, Certificate Coordinator
 Deatra Holloway, *Senior Advisor, Nursing, CUN 129, (414) 229-5484, hdd@uwm.edu*

Global Health is an interdisciplinary undergraduate certificate administered by the Director of the Center for Global Health Equity and the Global Health Advisory Committee (GHAC).

The world is economically, politically, culturally, and technologically connected and interdependent with increasingly mobile populations seeking economic opportunity, security, and safety as a result of civil unrest, regional conflicts, diminished natural resources, poverty, and disease. Although some health problems and issues remain specific to levels and contexts of socio-cultural, economic, and political development within countries, many of the same problems, issues, and concerns transcend geographic boundaries, as should appropriate approaches and solutions. The concept of “global health” describes and addresses these realities. An undergraduate certificate in Global Health will provide

students with academic inquiry into:

- the global burden of disease
- the social determinants of health in a global context
- the principles, language, and measurement tools used in global health
- ethics and global health
- the global cultural, religious, and historical contexts of health, disease, and health care

The Global Health Certificate will provide undergraduate students with an opportunity to focus on current global health issues and concerns, policies, processes, programs, and practices that contribute to and hinder global health improvement. A wide array of courses will help students better comprehend the interdisciplinary approach to understanding and addressing global health issues.

Eligibility

The Global Health Certificate is intended to enhance a bachelor's degree. The certificate is available to all students seeking a bachelor's degree from UWM and to students who previously have received a bachelor's degree from UWM or any other accredited college or university.

Program Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 21 credits in approved Global Health courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, 9 must be taken at the 300 level or above. A minimum of 6 credits must be taken in the College of Letters and Science. A minimum of 6 credits must be taken in the College of Nursing. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis. The following are required:

Core Course (6 cr)

Nurs 110	Introduction to Global Health	3
PH 101	Introduction to Public Health	3

World Regions (3 cr)

Select one of the following:

Geog 110	The World: Peoples and Regions	3
Hist 132	World History Since 1500	3
Pol Sci 106	Politics of the World's Nations	3
Sociol 103	World Society	3

Electives (minimum of 6 cr)

Select at least three courses from the following:

Africol 329	Economic Growth and Sustainable Development in Africa	3
Africol 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
Anthro 102	Introduction to Anthropology: Culture and Society	3
Anthro 104	Lifeways in Different Cultures: A Survey of World Societies	3
Anthro 440	Medical Anthropology	3
Anthro 447	The Global Politics of Human Rights	3
CES 210	Introduction to Conservation and Environmental Science	3
BMS 204	Plagues, Pandemics, and Epidemics	3
Econ 353	Economic Development	3
Ethnic 375	Global Violence, Disease, and Death	3
Nurs 440	Nursing Specialty: Vulnerable Populations: (subtitle)	2
Nurs 497	Study Abroad	3
PH 101	Introduction to Public Health	3
Sociol 472	Population and Society	3
Spanish 388	Health Issues in the Hispanic World	3

Fieldwork (3 cr)

Students are required to do an internship, self-designed research project, or study abroad (for a minimum of 3

credits) in the field of global health. The purpose of this requirement is to enable the student to engage in global health work through "practical" experience or research. The area of study must be approved by the coordinator of the Global Health Certificate and must meet the requirements of the department through which it is being completed.

The fieldwork requirement can be fulfilled in one of three ways:

- Internship – A number of global health internships are available through the International Studies Major (IntlSt 450), as well as other departments and organizations.
- Study Abroad – UWM offers a number of Global Health study abroad programs, through several departments.
- Independent Study – The student may propose a global health research project to a professor in an area of interest. The independent study also must be discussed with and approved by the Global Health Certificate Coordinator.

Capstone (3 cr)

Nurs 475

Global Health: Ethics and Human Rights

3

Independent study courses focusing on global health issues may be accepted with the approval of the Certificate Program Coordinator. Other courses not on this list but relevant to the study of global health may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the approval of this program may count those courses toward completion of the certificate requirements.

Awarding the Certificate

Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree will receive the certificate upon completion of the program requirements.

Bachelor of Arts in Global Studies

Coordinator: A. Aneesh, *Senior Director, International Affairs and Outreach, and Associate Professor of Sociology and Global Studies*

Christine Wolf, *Advisor*, Garland 111, (414) 229-6925, cawolf@uwm.edu

The College of Letters and Science and several of UWM's professional schools have formed a partnership to offer students a unique program of study that will prepare them for positions of global leadership in our increasingly interconnected world.

The Bachelor of Arts in Global Studies combines the considerable strengths of a liberal arts and sciences education with the specialized knowledge of professional studies enhanced by a thorough, integrated international emphasis. While graduates of the Global Studies program will have a competitive advantage, especially in areas of employment that benefit from an international education, the analytical, communication, and cultural awareness knowledge and skills acquired through the Global Studies degree will serve students well in any area of work.

Courses of Study

Global Studies at UWM is a four-year undergraduate program consisting of the following pre-professional tracks: Global Communications, Global Management, Global Security, Global Sustainability, and Global Urban Development.

Common to all tracks is the degree's core curriculum, which includes three foundational Global Studies core courses; one semester (12 cr minimum) of study abroad; an international internship; eight semesters (or equivalent) of foreign language study; and a course in world regions. In addition, students take specialized courses designated for their elected Global Studies track.

The **Global Communications** track focuses on the relevance of language, culture, and identity in understanding innovations in and applications of technology, media, communications, information science, and technology transfer. This track will allow students to build technical competencies while also grounding them in a broader understanding of technology's impact on human lives. This track affords a range of options that allows students to prepare for careers in fields such as marketing, international business, advertising, information technology, new media, and translation. The College of Letters and Science awards this degree. However, the College of Letters and Science and the School of Information Studies (SOIS) will award the degree jointly to students who complete at least 21 credits of elective courses through SOIS.

The **Global Management** track, focusing on the impact of globalization on business and the world economy, will prepare students as future managers capable of analyzing transnational issues; strategizing within a global, cross-cultural context; and implementing projects with a strong understanding of globalization's implications for the private and public sectors. This track will prepare students to assume leadership roles in many areas, but it will be advantageous especially in such fields as international business, consulting, education, government, and public policy. In addition, graduates of this track will meet all the requirements for admission to an MBA program. The College of Letters and Science and the Sheldon B. Lubar School of Business jointly award this degree.

The **Global Security** track examines the changing conceptions and conditions shaping security in a global context. In addition to exploring traditional notions of security based on the nation-state and the international system, coursework in this track considers a wide range of issues including global health, the environment, human rights, peace-building efforts, 21st-century conflict, social movements, migration, ethnicity, and identity. This track will prepare students to pursue careers in government agencies and non-governmental organizations addressing areas such as international development, global conflict management, and global sustainability. The College of Letters and Science awards this degree.

The **Global Sustainability** track develops student expertise in the diverse concepts of global sustainability and their application to development fields. Students following this track will be able to recognize and explain principles of sustainability in human, environmental, and governance systems; and evaluate and identify methods for planning and implementing sustainable development strategies in differing contexts. This track affords graduates a range of career options including positions such as sustainability specialists/coordinators/officers, educators/outreach coordinators, and project managers, working in industry, consultancy, utilities, regulatory agencies, non-profits, governmental agencies, and non-governmental organizations. Students are also prepared to enter graduate programs in sustainability. The College of Letters and Science awards this degree.

The **Global Urban Development** track will help students acquire a holistic understanding of the global dimensions and local variations of urban development, the histories and economy of global cities, the causes and implications of urban growth, and nuances of international development as applied to changing global scenarios. It will prepare students for further professional studies and careers in architecture, urban planning, public policy, community development, or Geographic Information Systems (GIS). The College of Letters and Science and the School of Architecture and Urban Planning (SARUP) jointly award this degree.

Enrolling in the Global Studies BA Degree Program

Students applying to the University of Wisconsin-Milwaukee and declaring a primary interest in Global Studies on their application forms will be assigned a Global Studies advisor at the Center for International Education. Students may enroll in the Global Studies degree program by declaring their major as global studies, which is possible after they have earned 56 credits. The process includes (1) reviewing the degree requirements with a Global Studies advisor and (2) signing the declaration of major form. Students who intend to pursue a Global Studies degree are strongly advised to declare before earning 75 credits.

Curriculum Requirements. To earn the Bachelor of Arts in Global Studies, students in all tracks must complete 120 credits, including a minimum of 36 credits in upper-division courses (numbered 300 or above), while fulfilling the requirements below. GPAs of at least 2.000 overall and 2.500 in the selected track are required for graduation. Students also are responsible for completing the University-wide General Education Requirements.

GENERAL STUDIES - CORE REQUIREMENTS FOR ALL TRACKS

Global Studies Core Courses (9 cr) - Introduction to the nature and impact of global processes.

Global 101	Introduction to Global Studies I: People and Politics	3 (SS)
Global 201	Introduction to Global Studies II: Economics and the Environment	3 (SS)
Global 202	Introduction to Global Studies III: Globalization and Technology	3 (SS)

Global Studies Capstone (3 cr) - Culminating experience in the senior year. Students must complete a capstone course appropriate to their track.

World Regions Course (3 cr) - Introduction to area studies.

One of the following:

Geog 110	The World: Peoples and Regions	3 (SS)
Hist 132	World History Since 1500	3 (HU)
Pol Sci 106	Politics of the World's Nations	3 (SS)

Foreign Language - The requirement may be satisfied in one of the following ways:

- **Option 1** One Language: Eight semesters (or equivalent) of a single foreign language with passing grades.
- **Option 2** Two Languages: First- through sixth-semester (or equivalent) of a first language other than English and two semesters (or equivalent) in a second language other than English, all with passing grades.

Study Abroad

Students must complete a minimum of 12 credits while studying abroad.

International Internship

Students must complete a 3-credit internship at a location outside of the U.S. The internship normally will be completed during the semester abroad, in the summer following the semester abroad, or in the senior year.

General Education Distribution Requirements

In order to establish core competencies in writing and communication, develop quantitative literacy, and build a foundation in the arts, humanities, social sciences, and natural sciences, students are required to take courses that satisfy the distribution areas of the UWM General Education Requirements (GER), as outlined below:

Core Competencies

Oral and Written Communication Parts A & B (OWC-A, OWC-B)

Quantitative Literacy Parts A & B (QL-A, QL-B)

Distribution Areas

Arts (A)	3 cr
Cultural Diversity (CD)	3 cr
Natural Sciences (NS), including one lab (NS+)	6-7 cr

Humanities (HU) (3 cr may be satisfied by selecting Hist 132 under the world regions course options)	12 cr
Social Sciences (SS) (9 cr are satisfied by Global core courses and 3 additional cr are satisfied by selecting Geog 110 or Pol Sci 110 under the world regions course options)	12 cr

A list of courses in each distribution area is provided in the UWM *Schedule of Classes* under "Courses Approved for GER Distribution."

TRACK CORE CURRICULA

Additional requirements designated for each track appear in the sections below. Under track core curriculum, students are required to complete only the requirements for their elected track.

Global Communications Track

To earn the Bachelor of Arts in Global Studies through the Global Communications track, students must complete the following requirements. At least one writing course (*) must be selected.

GLOBAL COMMUNICATIONS TRACK CORE COURSES (21 cr)

Choose two of the following courses (6 cr):

Bus Adm 230	Introduction to Information Technology Management	3
Commun 103	Public Speaking	3
Commun 105	Business and Professional Communication	3
English 205	Business Writing*	3
English 206	Technical Writing*	3
English 214	Writing in the Professions:* (with appropriate subtitle)	3
English 431	Topics in Advanced Writing:* (with appropriate subtitle)	3
English 435	Professional and Technical Writing*	3
English 436	Writing for Information Technology*	3
English 449	Writing Internship in English*	1-4
JAMS 201	Media Writing*	3
InfoSt 110	Introduction to Information Science and Technology	3
InfoSt 250	Internet Communications and Information Transfer	3

All five of the following courses (15 cr):

Econ 103	Principles of Microeconomics	3
Econ 104	Principles of Macroeconomics	3
Global 351	Language, Media, and Social Practice in Global Communications	3
Global 451	Access, Security, and Intercultural Contexts in Global Communications	3
Global 551	Global Communications Capstone: Future Trends	3

GLOBAL COMMUNICATIONS ELECTIVES (24 cr)

Students must complete 24 credits from the following lists of courses, with a minimum of 15 credits taken from List A. There is no minimum number of credits that must be selected from Lists B-E. Electives from Lists C-E should be courses about the country or region in which the student will pursue language study and/or study abroad. Any individual course may count only once toward degree requirements. Students in this track who are awarded their degree by L&S

only must complete at least 36 credits in L&S upper-division (numbered 300 or above) courses.

List A (A minimum of 15 credits must be completed from the following):

Anthro 349	Seminar in Ethnography and Cultural Processes	3
Anthro 570	Issues in Bilingualism (jointly offered with Linguistics)	3
Art 227	Design Workshop (with appropriate subtitle)	1-3
ART 309/305	Migration and Visual Art	3
Art 393 (293)	Digital Printmaking I	3
Bus Adm 230	Introduction to Information Technology (if not selected above)	3
Bus Adm 335	Visual System Development	3
Bus Adm 360	Principles of Marketing	3
Bus Adm 433	Information Technology Project Management	3
Bus Adm 465	International Marketing	3
Bus Adm 467	Marketing Seminar: (with appropriate subtitle)	3
Bus Adm 495	Special Topics in Business: (with appropriate subtitle)	1-3
Bus Adm 496	International Business	3
Bus Adm 530	Introduction to eBusiness	3
Bus Adm 531	Developing Web Applications Using Web Services	3
Bus Adm 532	Web Development for Open Business Systems	3
Bus Adm 533	Information Technology Infrastructure for Business	3
Chinese 441 (310)	Business Chinese	3
Commun 192	Freshman Seminar: "The Digital Mirror" subtitle	3
Commun 313	Human Communication and Technology	3
Commun 350	Intercultural Communication	3
Commun 380	Honors Seminar: "The Social History of the Internet" subtitle	3H
Commun 402	Gender and Communication	3
Commun 410	Organizational Communication Technology	3
Commun 413	Rhetoric and the Internet	3
Commun 450	Cross-Cultural Communication	3
Commun 550	International and Global Communication	3
Commun 655	Cultural Training and Adjustment	3
Commun 665	Introduction to Mediation	3
Commun 675	Communication in International Mediation and Peacebuilding	3
Dance 370	World Movement Traditions: All Topics	3
English 214	Writing in the Professions: (with appropriate subtitle) (if not selected above)	3
English 431	Topics in Advanced Writing (with appropriate subtitle) (if not selected above)	3
English 435	Professional and Technical Writing (if not selected above)	3
English 436	Writing for Information Technology (if not selected above)	3
English 437	Project Management for Professional Writers	3
English 439	Document Design	3
English 449	Writing Internship in English (if not selected above)	1-4
Film 202 (102)	Current Topics in Media Arts Production	3
Film 203	Media Workshop: (with appropriate subtitle)	1-3
Film 222	Introduction to Digital Filmmaking	3
Film 255	Introduction to Digital Arts	3
FineArt 327 (351)	Digital Media Workshop: (with appropriate subtitle)	3
FLL 216	Survey of Civilization: (with appropriate subtitle)	3
French 311	French for International Business/Professional Communication: Oral Emphasis	3
French 361	French for International Business/Professional Communication: Writing Focus	3
French 415 (425)	Introduction to Translation: French to English	3
French 465	Introduction to Translation: English to French	3
Geog 215	Introduction to Geographic Information Sciences	3

Geog 225	The Language of Maps	3
German 361	German for the Global World	3
German 425	Introduction to German Translation	3
German 525	Seminar in Advanced German Translation	3
German 672 (461)	German for Professional Purposes	3
Global 311	Contexts for Global Management	3
Global 448	Intellectual Property in the Global Information Economy	3
43Global 541 (411)	Cross-Cultural Management	3
Italian 313	Translation: Italian-English, English-Italian	3
JAMS 101	Introduction to Mass Media	3
JAMS 201	Media Writing (if not selected above)	3
JAMS 204	News Writing and Technology	3
JAMS 207	Introduction to Advertising and Public Relations	3
JAMS 225	Nature and Culture in the Information Age	3
JAMS 226	Religion, Media, and Culture	3
JAMS 231 (431)	Publication Design	3
JAMS 232	Photojournalism	3
JAMS 262	Principles of Media Studies	3
JAMS 307	Persuasive Media Writing and Production	3
JAMS 320	Print and Online News	3
JAMS 336	Media Graphics	3
JAMS 361	Media Ethics	3
JAMS 524	Advertising and Public Relations Campaigns	3
JAMS 562	Media Studies and Culture	3
InfoSt 110	Introduction to Information Science and Technology (if not selected above)	3
InfoSt 120	Information Technology Ethics	3
InfoSt 240	Web Design I	3
InfoSt 310	Human Factors in Information Seeking and Use	3
InfoSt 330	Electronic Information Retrieval Systems	3
InfoSt 340	Introduction to Systems Analysis	3
InfoSt 410	Database Information Retrieval Systems	3
InfoSt 430	Multimedia Application Development	3
InfoSt 440	Web Application Development	3
Linguis 410	Literacy, Grammar, and Methodologies in ESL Education	3
Linguis 420	Introduction to Second Language Acquisition	3
Linguis 430	Language and Society	3
Linguis 565	Introduction to Adult/University-Level TESOL	3
Linguis 570	Issues in Bilingualism (jointly offered with Anthro)	3
PeaceSt 201	Introduction to Conflict Resolution and Peace	3
Russian 419	Introduction to Translation: Russian to English	3
Sociol 327	The Social Organization of Technology: A Comparative Perspective	3
Spanish 348	Introduction to Translation: English to Spanish	3
Trnsltn 465	Introduction to Translation: English to French	3
Trnsltn 530	Business and Professional Aspects of Translation	3

List B Topical Electives:

Anthro 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3
Anthro 543	Cross-Cultural Study of Religion	3
Art 118	Digital Arts: Culture, Theory, and Practice	3
Art 317	3D Imaging I	3
ArtHist 111	Entertainment Arts: Film, Television, and the Internet (jointly offered with English and FilmStd)	3

Bus Adm 330	Organizations	3
Bus Adm 436	Systems Analysis and Design	3
CompLit 350	Topics in Comparative Literature: (with appropriate subtitle)	3
CompLit 365	Literatures and Cultures of the Americas: (with appropriate subtitle)	3
CompLit 461	Film-Fiction Interaction: (with appropriate subtitle)	3
CompSci 112	Introduction to the Internet and the World Wide Web	1
CompSci 113	Introduction to Web Document Production	1
CompSci 201	Introductory Computer Programming	3
CompSci 251	Intermediate Computer Programming	4
English 111	Entertainment Arts: Film, Television, and the Internet (jointly offered with ArtHist and FilmStd)	3
English 192	First-Year Seminar: (with appropriate subtitle)	3
English 210	International English	3
English 253	Science Fiction: (with appropriate subtitle)	3
English 290	Introduction to Film Studies	3
English 291	Introduction to Television Studies	3
English 316	World Cinema: (with appropriate subtitle)	3
English 320	Studies in Film Authorship: (with appropriate subtitle)	3
English 394	Theories of Mass Culture: (with appropriate subtitle)	3
English 402	Theories of Language and Literature: (with appropriate subtitle)	3
English 404	Language, Power, and Identity	3
English 434	Editing and Publishing	3
English 465	Women Writers: (with appropriate subtitle)	3
English 627	Seminar in Literature and Culture: (with appropriate subtitle)	3
English 630	Seminar in Literature and the Other Arts: (with appropriate subtitle)	3
Film 116	Listening and Recording	3
Film 201 (101)	Introduction to Experimental Media Arts	3
Film 302	Video in the Classroom	3
FilmStd 111	Entertainment Arts: Film, Television, and the Internet (jointly offered with ArtHist and English)	3
FineArt 511	Spatial Interactivity II	3
Hist 372	Topics in Global History (with appropriate subtitle)	3
InfoSt 150	Introduction to Information Resources on the Internet	3
InfoSt 210	Information Resources for Research	3
InfoSt 250	Internet Communications and Information Transfer	3
InfoSt 691	Special Topics in Information Science: (with approved subtitle)	3
IntlSt 550	Senior Seminar in International Studies: (with appropriate subtitle)	3
Japan 331	Reading Japanese Short Stories	3
JAMS 111	Gender and the Media	3
JAMS 112	Global Media	3
JAMS 113	Internet Culture	3
JAMS 114	Media and Popular Culture	3
JAMS 115	Introduction to Media and Politics	3
JAMS 116	Journalism, Documentary, and Democracy	3
JAMS 260	Contemporary Non-Fiction Media	3
JAMS 280	Selected Topics in Mass Communication: (with appropriate subtitle)	3
JAMS 360	History of Mass Media	3
JAMS 450	Race and Ethnicity in the Media	3
JAMS 559	Law of Mass Communication	3
JAMS 614	Seminar in Mass Media and Public Opinion	3
JAMS 615	Seminar in Media and Politics	3
JAMS 620	Seminar in Global Media	3
JAMS 659	Seminar in Comparative Media Law	3
Linguis 100	The Diversity of Human Language	3

Linguistics 200	Aspects of Language: (with appropriate subtitle)	3
Linguistics 210	Power of Words	3
Linguistics 350	Introduction to Linguistics	3
Linguistics 468	Language in Its Various Forms: (with appropriate subtitle)	3
Music 327	Analog and Digital Synthesis I	3
Music 328	Digital Synthesis and Systems II	3
Spanish 341	Introduction to Hispanic Linguistics	3

List C Area Studies Electives:

Africol 232	Survey of African Societies and Cultures	3
Africol 311	African Religious Thought and Social Organizations	3
Africol 320	Black Cultures in Latin America and the Caribbean	3
Africol 450	Cultural Transmissions: Black Africa and Black America	3
Anthro 315	Peoples and Cultures of Mexico and Central America	3
Anthro 320	Peoples and Cultures of Africa	3
Anthro 322	Europe in Anthropological Perspective	3
Anthro 325	Japanese Culture and Society	3
Anthro 326	Peoples and Cultures of South Asia	3
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3
Hist 345	The Modern Balkans: Nationalism, War, and Democracy	3
Hist 378	Revolution in China	3
Hist 382	Southeast Asia: The Age of Imperialism and Revolution Since 1800	3
Hist 392	The History of Southern Africa	3
Hist 393	History of Mexico	3
Hist 395	History of Japan Since 1600	3
Jewish 328	The Arab-Israeli Conflict	3
Jewish 358	The Jews of Modern Europe: History and Culture	3
Jewish 379	Introduction to Jewish History	3

List D Foreign Language Electives - Up to 6 credits beyond those taken to meet the foreign language requirement of upper-division courses (300 level or fifth semester and above) on contemporary culture or literature in a foreign language may count as electives for this track, provided that the language of instruction is not English. The following are recommended; however, see language program listings in this catalog for a complete list:

Chinese 320	Contemporary Chinese Societies Through Film	3
French 324 (327)	Contemporary French Language and Culture	3
French 426 (326)	Growing Up French	3
French 427	Advanced Written Expression	3
French 431	Seminar in Literature and the Francophone World: (with appropriate subtitle)	3
French 432	Seminar in French and Francophone Cultures: (with appropriate subtitle)	1-3
French 450	Institutions and Culture of Contemporary France	3
French 592	Seminar in French Language: (with appropriate subtitle)	3
German 331	Intermediate German Grammar and Usage	3
German 332	Intermediate Conversation and Composition	3
German 333	Analysis of German Texts	3
German 334	Introduction to German Literature and Culture	3
German 360	German for the Global World	3
German 410	German Cultural History	3
German 411	Modern-Day Germany	3
German 415	Topics in German Civilization: (with appropriate subtitle)	3
German 672	German for Professional Purposes	3

Italian 312	Contemporary Italian Language and Culture	3
Italian 629	Major Film Directors: (with appropriate subtitle)	3
Portugs 360	Brazilian Culture: (with appropriate subtitle)	3
Portugs 457	Seminar in Luso-Brazilian Literature	3
Spanish 315	Spanish Immersion Experience	3
Spanish 461	Topics in Hispanic Culture: (with appropriate subtitle)	3
Spanish 470	Survey of Hispanic Literature and Civilization	3
Spanish 472	Survey of Spanish-American Literature and Civilization	3
Spanish 474	Survey of Spanish Literature and Civilization	3

List E Literature-in-Translation – Credits in 100-level courses may be elected only prior to the student's study abroad:

Complit 208	World Literature in Translation: The 17th to the 21st Century: (subtitle)	3
CompLit 230	Literature and Society: (with appropriate subtitle)	2-4
CompLit 233	Literature and Film: (with appropriate subtitle)	2-4
CompLit 360	Seminar in Literature and Cultural Experience: (with appropriate subtitle)	3
CompLit 365	Literatures and Cultures of the Americas: (subtitle)	3
CompLit 457	Topics in French and Francophone Studies in Translation: (subtitle)	3
French 145	Views of France: (Subtitle)	3
French 357	Literature of the French-Speaking World in Translation: (subtitle)	3
French 451	Cinema of the French Speaking World: (with appropriate subtitle)	3
German 112	German Life and Civilization: Part II	3
German 115	Seminar on Scandinavian Culture	3
Hebr St 254	Studies in Hebrew Culture: (with appropriate subtitle)	3
Italian 145	Views of Italy: (with appropriate subtitle)	3
Italian 229	Italian Cinema	3
Italian 245	Italian Fictions: (with appropriate subtitle)	3
Italian 258	Contemporary Italian Society and Culture	3
Italian 357	Topics in Italian Culture in Translation: (with appropriate subtitle)	3
Italian 457	Topics in Italian Literature and Culture in Translation: (with appropriate subtitle)	3
Japan 200	Japanese Culture and Its Effect on Language	3
Polish 236	Polish Culture in Its Historical Setting	3
Portugs 225	Understanding Brazil: (with appropriate subtitle)	3
Portugs 380	Luso-Brazilian Literature in Translation: (with appropriate subtitle)	3
Russian 245	Russian Life and Culture	3
Spanish 225	Understanding the Hispanic World	3

Global Management Track

To earn the Bachelor of Arts in Global Studies through the Global Management track, students must fulfill the following requirements (49 credits):

Bus Adm 201	Introduction to Financial Accounting	3
Bus Adm 210	Introduction to Management Statistics	3
Bus Adm 230	Introduction to Information Technology Management	3
Bus Adm 330	Organizations	3
Bus Adm 350	Principles of Finance	3
Bus Adm 360	Principles of Marketing	3
Bus Adm 465	International Marketing	3
Bus Adm 496	International Business (capstone)	3
Econ 103	Principles of Microeconomics	3

Econ 104	Principles of Macroeconomics	3
Econ 351	Introduction to International Economic Relations	3
English 205	Business Writing	3
Global 541 (411)	Cross-Cultural Management	3
Math 211	Survey in Calculus and Analytic Geometry	4
<i>One of the following two courses (3 credits):</i>		
Bus Adm 535	Global Information Technology Management	3
Global 311	Contexts for Global Management	3
<i>One of the following three courses (3 credits):</i>		
Commun 350	Intercultural Communication	3
Commun 450	Cross-Cultural Communication	3
Commun 550	International and Global Communication	3

ELECTIVES (6 credits)

Complete a minimum of two courses from the approved list:

Bus Adm 456	International Financial Management	3
Bus Adm 495	Special Topics in Business: "Global Innovation Management" subtitle	3
Bus Adm 535	Global Information Technology Management (if not selected above)	3
Commun 350	Intercultural Communication (if not selected above)	3
Commun 450	Advanced Intercultural Communication (if not selected above)	3
Commun 365 (520)	Negotiation Skills Workshop	3
Commun 550	International and Global Communication (if not selected above)	3
Commun 665	Introduction to Mediation	3
Econ 325	Money and Banking	3
Econ 353	Economic Development	3
Econ 447	Labor Economics	3
Econ 454	International Trade	3
German 360	German for the Global World	3
German 672	German for Professional Purposes	3
Global 311	Contexts for Global Management (if not selected above)	3
Global 451	Access, Security, and Intercultural Contexts in Global Communications	3
Global 448	Intellectual Property in the Global Information Economy	3
JAMS 361	Media Ethics	3
Pol Sci 316	International Law	3
Pol Sci 330	The Politics of International Economic Relations	3
Pol Sci 339	European Integration	3
Pol Sci 343	Asian International Relations	3
Pol Sci 346	U.S.-Latin American Relations	3

Global Security Track

To earn the Bachelor of Arts in Global Studies through the Global Security track, students must complete the requirements listed below. Students in this track must complete at least 36 credits in L&S upper-division (numbered 300 or above) courses.

GLOBAL SECURITY TRACK CORE COURSES (24-25 cr)

All four of the following courses (12 cr):

Econ 103	Principles of Microeconomics	3
Econ 104	Principles of Macroeconomics	3

Global 371	Rethinking Global Security	3
Global 571	Global Security Capstone: Future Trends	3
<i>One of the following three courses (3 cr):</i>		
Global 442	Humanitarianism in Global Perspective (jointly offered with Anthro)	3
Global 447	Global Politics of Human Rights	3
Global 471	Strategies for Realizing Security in Global Contexts	3
<i>One of the following two courses (3 cr):</i>		
Econ 210	Economics Statistics	3
MthStat 215	Elementary Statistical Analysis	3
<i>One of the following seven courses (3-4 cr):</i>		
Anthro 540	Applications of Anthropology	3
Anthro 560	Introduction to Research Methods in Anthropology	3
Anthro 561	Techniques and Problems in Ethnography	3
Geog 215	Introduction to Geographic Information Sciences	3
Geog 525	Geographic Information Systems	3
Pol Sci 390	Political Data Analysis	4
WGS 411	Women's and Gender Studies Research and Methods: (with appropriate subtitle)	3
<i>One of the following three courses (3 cr):</i>		
Commun 365	Negotiation Skills Workshop	3
Commun 665	Introduction to Mediation	3
Commun 675	Communication in International Mediation and Peacebuilding	3

GLOBAL SECURITY ELECTIVES (21 cr)

Students must complete 21 credits from the following lists, with at least 15 credits selected from List A. There is no minimum number of credits that must be taken from List B.

List A Electives:

Anthro 156	Food and Culture	3
Anthro 355	Globalization, Culture, and Environment	3
Anthro 440	Medical Anthropology	3
Anthro 447	The Global Politics of Human Rights (jointly offered with Global 447)	3
Anthro 448	Cultural and Human Ecology	3
Anthro 449	The Human Economy	3
Anthro 450	Political Anthropology	3
Anthro 543	Cross-Cultural Study of Religion	3
Art 309/509	Migration and Visual Art	3
BMS 232	Introduction to Clinical Nutrition	3
BMS 539	Public Health Microbiology	2
BMS 540	Public Health Microbiology Lab	1
CES 210	Introduction to Conservation and Environmental Science	3
Commun 350	Intercultural Communication	3
Commun 363	Communication in Human Conflict	3
Commun 365	Negotiation Skills Workshop (if not selected above)	3
Commun 450	Cross-Cultural Communication	3
Commun 550	International and Global Communication	3
Commun 631	Current Topics in Interpersonal Communication/Conflict Management: (with appropriate subtitle)	3
Commun 665	Introduction to Mediation (if not selected above)	3
Commun 675	Communication in International Mediation and Peacebuilding	3
Commun 681	Seminar in Communication in a World of AIDS	3

CompLit 232	Literature and Politics: (with appropriate subtitle)	3
CompLit 350	Topics in Comparative Literature: (with appropriate subtitle)	3
CompLit 365	Literatures and Cultures of the Americas	3
CES 210	Introduction to Conservation and Environmental Sciences	3
Crj 291	Current Issues in Criminal Justice: (with appropriate subtitle)	3
Crj 410	Comparative Criminal Justice	3
Econ 351	Introduction to International Economic Relations	3
Econ 353	Economic Development	3
English 443	Grant Writing	3
Ethnic 350	Advanced Topics in Comparative Ethnic Studies: (with appropriate subtitle)	3
Ethnic 375	Global Violence, Disease, and Death	3
Geog 231	Geography of Islam	3
Geog 309	Nationalities and Nations of the World	3
Geog 310	General Climatology	3
Geog 350	Conservation of Natural Resources	3
Geog 400	Population, Environment, Development	3
Geog 443	Cities of the World: Comparative Urban Geography	3
Geog 464	Environmental Problems	3
Geog 540	Globalization and the City	3
Geog 564	Urban Environmental Change and Social Justice	3
Global 299	Ad Hoc: (with appropriate subtitle)	1-6
Global 321	The Global City in History	3
Global 421	Social Justice in the Global City	3
Global 442	Humanitarianism in Global Perspective (if not selected above) (jointly offered with Anthro)	3
Global 443	Medicine and Pharmaceuticals in the Global Age (jointly offered with Anthro)	3
Global 447	The Global Politics of Human Rights (if not selected above) (jointly offered with Anthro)	3
Global 448	Intellectual Property in the Global Information Economy	
Global 499	Ad Hoc: (with appropriate subtitle)	1-6
Hist 210	The Twentieth Century: A Global History	3
Nurs 101	Cultural Diversity in Health Care	3
Nurs 110	Introduction to Global Health	3
Nurs 365	Current Topics of Nursing: (with appropriate subtitle)	3
PeaceSt 201	Introduction to Conflict Resolution and Peace	3
PH 101	Introduction to Public Health	3
PH 375	Topics in Public Health for Undergraduates: (with appropriate subtitle)	3
Philos 350	Introduction to Comparative Study of Religion	3
Pol Sci 175	Introduction to International Relations	3
Pol Sci 316	International Law	3
Pol Sci 330	The Politics of International Economic Relations	3
Pol Sci 337	International Organization and the United Nations	3
Pol Sci 338	Seminar in International Relations: (with appropriate subtitle)	3
Pol Sci 365	Theories and Methods in International Politics	3
Pol Sci 370	International Conflict	3
Pol Sci 371	Nationalism and Ethnic Conflict	3
ReligSt 350	Selected Topics in Religious Studies: (with appropriate subtitle)	3
Sociol 235	Social Change in the Global Economy	3
Sociol 327	The Social Organization of Technology: A Comparative Perspective	3
Sociol 450	Environmental Sociology	3
Sociol 495	Seminar in Sociology: (with appropriate subtitle)	3
WGS 401	Global Feminisms	3
WGS 500	Advanced Social Science Seminar in Women's and Gender Studies: (with	3

appropriate subtitle)

List B Electives (6 cr):

Africol 232	Survey of African Societies and Cultures	3
Africol 299	Ad Hoc: Africa in the Reconfiguring Global System: (with appropriate subtitle)	3
Africol 311	African Religious Thought and Social Organizations	3
Africol 320	Black Cultures in Latin America and the Caribbean	3
Africol 329	Economic Growth and Sustainable Development in Africa	3
Africol 450	Cultural Transmissions: Black Africa and Black America	3
Africol 565	Selected Texts/Topics in Africology: (with appropriate subtitle)	3
Anthro 250	Women's Roles in Cross-Cultural Perspective	3
Anthro 315	Peoples and Cultures of Mexico and Central America	3
Anthro 320	Peoples and Cultures of Africa	3
Anthro 322	Europe in Anthropological Perspective	3
Anthro 325	Japanese Culture and Society	3
Anthro 326	Peoples and Cultures of South Asia	3
Anthro 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3
Bus Adm 330	Organizations	3
Chinese 320	Contemporary Chinese Society Through Film	3
Civ Eng 492	Environmental Impact Assessment	3
CompLit 233	Literature and Film: (with appropriate subtitle)	3
CompLit 461	Film-Fiction Interaction	3
Econ 447	Labor Economics	3
Econ 454	International Trade	3
Econ 455	International Finance	3
English 240	Rhetoric, Writing, and Culture: (with appropriate subtitle)	3
English 247	Literature and Human Experience: (with appropriate subtitle)	3
English 268	Introduction to Cultural Studies: (with appropriate subtitle)	3
English 316	World Cinema: (with appropriate subtitle)	3
English 431	Topics in Advanced Writing: (with appropriate subtitle)	3
Ethnic 102	Transnational Migrations: Asian-, Arab-, Euro-American, and Latino Identity	3
Ethnic 250	Selected Topics in Ethnic Studies: (with appropriate subtitle)	3
Ethnic 550	Senior Seminar in Comparative Ethnic Studies: (with appropriate subtitle)	3
Geog 213	Geography of Asia	3
Geog 215	Introduction to Geographic Information Sciences	3
Geog 247	Quantitative Analysis in Geography	3
Geog 309	Nationalities and Nations of the World	3
Geog 330	Europe: East and West	3
Geog 332	China: Peoples, Regions, and Development	3
Geog 340	Biogeography	3
Geog 403	Remote Sensing: Environmental and Land Use Analysis	4
Geog 410	Gendered Geographies	3
Geog 421	Geography of Latin America	3
Geog 462	Cultural Geography of Latin America	3
Geog 470	Geography of South Asia	3
Global 699	Advanced Independent Study	3
Hebr St 238	Studies in Hebrew/Jewish Literature, Art, and Culture: (with appropriate subtitle)	3
Hebr St 254	Studies in Hebrew Culture: (with appropriate subtitle)	3
Hist 180	Latin American Society and Culture: (with appropriate subtitle)	3
Hist 192	First-Year Seminar: (with appropriate subtitle)	3

Hist 200	Historical Roots of Contemporary Issues: (with appropriate subtitle)	3
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3
Hist 286	The Korean Conflict, 1950-1953	3
Hist 287	The Vietnam War	3
Hist 290	Topics in Global History: (with appropriate subtitle)	3
Hist 345	The Modern Balkans: Nationalism, War, and Democracy	3
Hist 372	Topics in Global History: (subtitle)	3
Hist 375	Contemporary European History, 1945 to the Present	3
Hist 378	Revolution in China	3
Hist 382	Southeast Asia: The Age of Imperialism and Revolution Since 1800	3
Hist 392	The History of Southern Africa	3
Hist 393	History of Mexico	3
Hist 395	History of Japan Since 1600	3
Hist 434	The United States as a World Power in the 20th Century	3
IntlSt 550	Seminar in International Studies: (with appropriate subtitle)	3
InfoSt 660 (625)	Information Policy	3
Philos 204	Introduction to Asian Religions	3
Pol Sci 255	Great Issues of Politics	3
Pol Sci 300	Western European Politics	3
Pol Sci 302	Politics of Eastern Europe	3
Pol Sci 325	Latin American Politics	3
Pol Sci 326	Brazilian Politics and Society	3
Pol Sci 327	Politics of the Middle East and North Africa	3
Pol Sci 328	The Arab-Israeli Conflict	3
Pol Sci 339	European Integration	3
Pol Sci 340	Politics of Nuclear Weapons	3
Pol Sci 343	Asian International Relations	3
Pol Sci 346	U.S.-Latin American Relations	3
Pol Sci 423	Conduct of American Foreign Affairs	3
Soc Wrk 691	Practice Methods in Social Work: (with appropriate subtitle)	3
Sociol 304	Political Sociology	3
Sociol 325	Social Change	3
Sociol 330	Economy and Society	3
Sociol 472	Population and Society	3
Sociol 476	Sociology of International Public Health	3
WGS 200	Introduction to Women's and Gender Studies: A Social Science Perspective	3
WGS 290	Selected Topics in Women's and Gender Studies: (with appropriate subtitle)	1-3
WGS 599	Topics in Women's and Gender Studies: (with appropriate subtitle)	1-3

Global Sustainability Track

To earn the Bachelor of Arts in Global Studies through the Global Sustainability track, students must complete 51-56 credits in the requirements listed below. Students in this track must complete at least 36 credits in upper-division (numbered 300 or above) courses, of which 24 credits must be in L&S.

GLOBAL SUSTAINABILITY TRACK CORE COURSES (36-41 cr)

All six of the following courses (18 cr):

CES 210	Introduction to Conservation and Environmental Science	3
Econ 103	Principles of Microeconomics	3
Econ 104	Principles of Macroeconomics	3
Global 361	Environment and Sustainability	3
Global 461	The Politics and Policy of Sustainability	3

Global 561	Preparing for Sustainable Peacebuilding and Social Change	3
<i>One of the following six courses (3-4 cr):</i>		
Anthro 568	Introduction to Anthropological Statistics	3
Bus Adm 210	Introduction to Management Statistics	4
Chem 221	Elementary Quantitative Analysis	4
Econ 210	Economic Statistics	3
Geog 247	Quantitative Analysis in Geography	3
MthStat 215	Elementary Statistical Analysis	3
<i>Two of the following fourteen courses (6-10 cr):</i>		
Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
Bio Sci 310	General Ecology	4
Chem 102	General Chemistry	5
Chem 104	General Chemistry and Qualitative Analysis	5
Geog 105	Introduction to Human Geography	3
Geog 120	Our Physical Environment	3
Geog 125	Introduction to Environmental Geography	3
Geog 140	Our Urban Environment: Introduction to Urban Geography	3
Geo Sci 100	Introduction to the Earth	3
Geo Sci 102	Principles of Historical Geology	3
Geo Sci 105	Earth, Air, Fire, and Water	3
Geo Sci 106	The Earth Environment	3
Geo Sci 150	Introduction to Ocean Sciences	3
<i>One of the following three courses (3 cr):</i>		
Ed Pol 602 (421)	Proposal Writing and Fundraising Skills for Community-Based Organizations	3
Ed Pol 605 (424)	Community-Based Organization Funding	3
English 443	Grant Writing	3
<i>One of the following seven courses (3 cr):</i>		
Global 541	Cross-Cultural Management (jointly offered by Lubar)	3
Commun 310	Communication in Organizations	3
Commun 350	Intercultural Communication	3
Commun 365	Negotiation Skills Workshop	3
Commun 450	Cross-Cultural Communication	3
Commun 665	Introduction to Mediation	3
Commun 675	Communication in International Mediation and Peacebuilding	3
<i>One of the following seven courses (3 cr):</i>		
Anthro 355	Globalization, Culture, and Environment	3
Anthro 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3
Bus Adm 495	Special Topics in Business: (with appropriate subtitle)	3
CES 471	Principles of Natural Resources Management	3
Geog 464	Environmental Problems	3
Hist 432	North American Environmental History	3
Philos 337	Environmental Ethics	3

GLOBAL SUSTAINABILITY ELECTIVES (15 cr)

Students must complete 15 credits from the following list:

Anthro 355	Globalization, Culture, and Environment (if not selected above)	3
Anthro 431	Urban Anthropology	3
Anthro 441	Nature, Knowledge, and Technoscience in Anthropological Perspective (if not selected above)	3
Anthro 448	Culture and Human Ecology	3

Anthro 449	Economic Anthropology	3
Bio Sci 310	General Ecology (if not selected above)	4
Bio Sci 458	Community Ecology	3
Bio Sci 505	Conservation Biology	3
Bus Adm 485	Environmental Issues in Real Estate	3
Bus Adm 495	Special Topics in Business: (with appropriate subtitle) (if not selected above)	3
Civ Eng 492	Environmental Impact Assessment	3
CES 471	Principles of Natural Resources Management (if not selected above)	3
CES 490	Senior Seminar: Conservation and Environmental Science	4
CES 499	Ad Hoc: (subtitle)	1-6
CES 550	Introduction to Science Interpretation	3
CES 551	Application of Science Interpretation	3
CES 571	Practical Approaches to a Sustainable Future	3
Econ 328	Environmental Economics	3
Econ 353	Economic Development	3
Econ 525	The Economics of Water	3
FrshWtr 502	Aquatic Ecosystem Dynamics	3
FrshWtr 504	Quantitative Freshwater Analysis	3
FrshWtr 650	Topics in Freshwater Sciences (with appropriate subtitle)	1-3
FrshWtr 690	Undergraduate Seminar in Freshwater Sciences (with appropriate subtitle)	1-3
Geog 215	Introduction to Geographic Information Sciences	3
Geog 304	Human Impact on the Environment	3
Geog 350	Conservation of Natural Resources	3
Geog 400	Population, Environment, Development	3
Geog 403	Remote Sensing: Environmental and Land Use Analysis	4
Geog 415	Hydrogeography	3
Geog 441	Geography of Cities and Metropolitan Areas	3
Geog 443	Cities of the World: Comparative Urban Geography	3
Geog 464	Environmental Problems (if not selected above)	3
Geog 475	Geography of Soils	3
Geog 520	Physical Geography of the City	3
Geog 540	Globalization and the City	3
Geog 564	Urban Environmental Change and Social Justice	3
Geo Sci 400	Water Quality	3
Geo Sci 401	General Soil Science	3
Geo Sci 463	Physical Hydrogeology	3
Geo Sci 562	Environmental Surface Hydrology	3
Global 321	The Global City in History	3
Global 421	Cities in the Global Economy	3
Ind Eng 590	Topics in Industrial and Systems Engineering: (with appropriate subtitle)	3
PH 375	Topics in Public Health for Undergraduates: (with appropriate subtitle)	3
Philos 337	Environmental Ethics (if not selected above)	3
UrbPlan 315	Great Cities of the World: Their Growth and Guided Urbanization	3
UrbPlan 684	Planning Local Economic Development	3

Global Urban Development Track

CORE COURSES (21-22 cr)

One of the following courses (3 cr):

Global 321	The City in History	3
Sociol 495	Seminar in Sociology: (with approved subtitle)	3
UrbPlan 315	Great Cities of the World: Their Growth and Guided Urbanization	3

One of the following courses (3 cr):

Global 421	Cities in the Global Economy	3
Arch 533	Topics in Architectural Theory: "Politics of Urban Disaster" subtitle	3
Geog 443	Cities of the World: Comparative Urban Geography	3

One of the following courses (3 cr):

Global 521 (500)	Global Urban Development Capstone: Future Trends	3
Geog 540	Globalization and the City	3

Both of the following courses (6 cr):

Econ 103	Principles of Microeconomics	3
Econ 104	Principles of Macroeconomics	3

One of the following courses (3-4 cr):

Bus Adm 210	Introduction to Management Statistics	4
Econ 210	Economic Statistics	3
Geog 214	Introduction to Geographic Information Sciences	3
Geog 247	Quantitative Analysis in Geography	3
MthStat 215	Elementary Statistical Analysis	3
Psych 210	Psychological Statistics	4
Sociol 261	Introduction to Statistical Thinking in Sociology	3

One of the following courses (3 cr):

Arch 300	Architectural History and Theory	3
Arch 301	Architectural Technologies	3
Arch 302	Architecture and Human Behavior	3
Arch 303	Architecture and Environmental Responses	3
Arch 330	Design Methodology	3
Arch 340	Urban Design	3
Arch 533	Topics in Architectural Theory: "Urban Design and Practical Theory" and "Politics of Urban Disaster" subtitles (if not chosen above)	3
Arch 534	Field Study	3
Arch 585	Research Methods in Architecture	3

ELECTIVES (24 cr)

List A Students must select 12 cr from this list:

Arch 100	Introduction to Architecture (A)	3
Arch 101	Introduction to Architectural Theory (A)	3
Arch 210	Introduction to Building Technologies	3
Arch 280	Introduction to Architectural Drawing	3
Arch 281	Virtual Modeling	3
Arch 300	Architectural History and Theory	3
Arch 301	Architectural Technologies	3
Arch 302	Architecture & Human Behavior	3
Arch 303	Architecture & Environmental Response	3
Arch 310	Architectural Fundamentals I	6
Arch 320	Architectural Fundamentals II	6
Arch 330	Design Methodology	3
Arch 340	Urban Design	3
Arch 390	Special Topics: "Real Estate Development" subtitle	1-3
Arch 392	Independent Study	3
Arch 410	Architectural Design I	6
Arch 420	Architectural Design II	6
Arch 533	Topics in Architectural Theory: "Urban Design and Practical Theory"; "Politics of Urban Disaster" subtitles	3

Arch 534	Field Study	3
Arch 560	Introduction to Historic Preservation	3
Arch 585	Research Methods in Architecture	3
Arch 645	Studies in Urban and Community Design Theory	6
Arch 692	Foreign Studies Studio	6
Geog 247	Quantitative Analysis in Geography	3
Geog 403	Remote Sensing: Environmental and Land Use Analysis	4
Geog 525	Geographic Information Systems	4
Geog 547	Spatial Analysis	4
Geog 625	Intermediate Geographic Information Science	3
UrbPlan 140	Issues in Contemporary Urban Planning (SS)	3
UrbPlan 141	Urban Planning Solutions to Contemporary Urban Problems (SS)	3
UrbPlan 315	Planning for Great Cities of the World	3
UrbPlan 591	Introduction to Urban Geographic Information Systems for Planners	3
UrbPlan 614	Planning for the Suburbs	3
UrbPlan 630	Budgeting and Finance in the Public Sector	3
UrbPlan 651	Land Use Planning Practice	3
UrbPlan 655	Negotiation Theory and Practice for Planners	3
UrbPlan 661	Neighborhood Planning and Revitalization	3
UrbPlan 662	Land Use Planning for Urban Redevelopment	3
UrbPlan 684	Planning Local Economic Development	3
UrbPlan 692	Special Topics in Architectural Theory: "Land Use, Transportation, and the Environment"; "Suburban Downtown Redevelopment II"; "Transportation Planning and Policy Analysis" subtitles	1-3

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List B Students must select 12 cr from this list:

Africol 300	Urban Violence	3
Anthro 102	Introduction to Anthropology: Culture and Society	3
Anthro 104	Lifeways in Different Cultures: A Survey of World Societies	3
Anthro 431	Urban Anthropology	3
ArtHist 360	Modern Architecture II: The Rise of Modern Architecture	3
ArtHist 361	Modern Architecture III: Contemporary Architecture	3
ArtHist 458	A Comparative History of Architecture and Urbanism: (with approved subtitle)	3
Bus Adm 210	Introduction to Management Statistics	4
CES 210	Introduction to Conservation and Environmental Science (NS)	3
Econ 210	Economic Statistics	3
Econ 323	Urban Economics	3
English 214	Writing in the Professions: (with approved subtitle)	3
English 240	Rhetoric, Writing, and Culture: (with approved subtitle)	3
English 268	Introduction to Cultural Studies: (with approved subtitle)	3
English 624	Seminar in Modern Literature: (with approved subtitle)	3
FineArt 389	Fine Arts Workshop I: "Cultural Organizations of Global Cities" subtitle	3
Geog 140	Our Urban Environment: Introduction to Urban Geography (SS)	3
Geog 213	Geography of Asia	3
Geog 215	Introduction to Geographic Information Sciences	3
Geog 330	Europe: East and West	3
Geog 332	China: Peoples, Regions, and Development	3
Geog 405	Cartography	3
Geog 421	Geography of Latin America	3
Geog 430	Geography of Transportation	3
Geog 441	Geography of Cities and Metropolitan Areas	3

Geog 443	Cities of the World: Comparative Urban Geography	3
Geog 462	Cultural Geography of Latin America	3
Geog 470	Geography of South Asia	3
Geog 520	Physical Geography of the City	3
Geog 540	Globalization and the City	3
Geog 564	Environmental Change and Social Justice	3
Global 321	The Global City in History	3
Global 361	Environment and Sustainability	3
Global 421	Social Justice in the Global City	3
Global 461	The Politics and Policy of Sustainability	3
HCA 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
Hist 463	History of the American City	3
MthStat 215	Elementary Statistical Analysis (NS)	3
Nurs101	Cultural Diversity in Health Care	3
Nurs 110	Introduction to Global Health	3
Nurs 410	Nursing Science: Concepts in Community and Family Health	3
Pol Sci 213	Urban Government and Politics (SS)	3
Pol Sci 413	Governing Metropolitan Areas	3
Pol Sci 450	Urban Political Problems	3
Pol Sci 452	Administrative Law	3
PH 101	Introduction to Public Health	3
PH 375	Topics in Public Health for Undergrads	3
ReligSt 250	Topics in Religious Studies: "Global Perspectives on Religion and Science" subtitle	3
Sociol 193	First-Year Seminar: "College in the City" subtitle	3
Sociol 261	Introduction to Statistical Thinking in Sociology	3
Sociol 377	Urbanism and Urbanization	3
Sociol 495	Seminar in Sociology: "Urban International Sociology" (and other approved subtitles)	3
Sociol 495	Theory of Development (Tentative title)	3
UrbPlan 316	Planning for the Great Cities of America	3
UrbPlan 350	Social Justice, Urban Planning, and the New Multicultural America	3
Urb Std 193	First-Year Seminar: (with approved subtitle)	3
Urb Std 250	Exploring the Urban Environment (SS)	3
Urb Std 360	Perspectives on the Urban Scene: (with approved subtitle)	3
Urb Std 450	Urban Growth and Development: A Global View	3

HONORS IN THE GLOBAL STUDIES DEGREE

Honors in the Global Studies Degree is different from all-university honors and signifies that a student has attained a significant level of achievement in their specific academic program. While the exact number of students who receive Honors in the Global Studies Degree will vary from year to year, on average recipients can be considered to rank among the top 10% of Global Studies graduates. Eligibility requirements for Honors in the Global Studies Degree are:

- GPA of 3.000 or higher for all graded UWM credits attempted;
- GPA of 3.500 or higher for all courses required in the Global Studies degree;
- GPA of 3.750 or higher for all upper-level courses required in the Global Studies degree (minimum of 15 credits);
- GPA of 3.750 or higher for all Global courses (minimum of 18 credits).

Non-UWM/transfer credits are excluded from GPA calculations for Honors in the Global Studies Degree.

Awarding the Degree

Students who complete the Global Studies degree requirements through the Global Urban Development track are awarded the Bachelor of Arts degree jointly by the College of Letters and Science and the School of Architecture and Urban Planning.

Students who complete the Global Studies degree requirements through the Global Management track are awarded the Bachelor of Arts degree jointly by the College of Letters and Science and the Lubar School of Business.

Students who complete the Global Studies degree requirements through the Global Communications track, with a minimum of 21 credits completed in the School of Information Studies, are awarded the Bachelor of Arts degree jointly by the College of Letters and Science and the School of Information Studies. All other students who complete the Global Studies degree requirements through the Global Communications track are awarded the Bachelor of Arts degree by the College of Letters and Science.

Students who complete the Global Studies degree requirements through the Global Security or the Global Sustainability track are awarded the Bachelor of Arts degree by the College of Letters and Science.

Exit Survey

All Global Studies degree and minor students are required to complete an assessment assignment and an exit survey upon completion of their required coursework. This assessment process allows Global Studies students to reflect on their experience while providing important information to help improve the program.

The exit survey is conducted online for a limited period of time during the fall, spring, and summer terms. Students who are about to complete or who have finished all coursework and need to take the exit survey should contact Tracy Buss (tbuss@uwm.edu).

Courses

[Global Studies \(GLOBAL\)](#)

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School of Information Studies

- Web Home Page:
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INFORMATION STUDIES

SOIS Student Services

NWQB, 3rd Floor

(414) 229-4707

uwm.edu/informationstudies

Degree Programs

Bachelor of Science Information Science and Technology

The School of Information Studies offers a Bachelor of Science degree in Information Science and Technology (BSIST), an undergraduate minor in Information Science and Technology (IST), a Master of Library and Information Science (MLIS), a Master of Science in Information Science & Technology (MSIST), a Certificate of Advanced Studies in Archives and Records Administration, a Certificate of Advanced Studies in Digital Libraries, and a PhD in Information Studies.

Master of Library and Information Science

The Master of Library and Information Science is one of the top programs in the nation and is accredited nationally by the American Library Association.

Master of Science in Information Science & Technology

The Master of Science in Information Science and Technology is a professional graduate degree program for those who seek advanced training to meet the ever-increasing need for information technology (IT) professionals.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

IST Mission Statement

The Bachelor of Science in Information Science and Technology aims to prepare graduates who are information and technology literate, and who are able to effectively deal with the theory, organization, management, and implementation of information tools and associated technologies in a range of interdisciplinary environments. In addition, we will:

- **Educate students**, including those who might not traditionally consider an educational path in information and technology, especially women and minorities.
- **Open rewarding career opportunities** by allowing students to combine the IST program with another area of study.
- **Serve the state of Wisconsin** by way of education, community participation, and collaborative research partnerships.
- **Expand relationships** with industry to develop and advance research in Information Science and Technology and its applications in interdisciplinary environments.
- **Produce graduates** who will become leaders in the growing information economy of Wisconsin and the world.

IST Core Competencies

The successful BSIST student will demonstrate understanding of the following:

- theoretical nature of information science and information technologies;
- organization and architecture of information based on understanding of the context, the content, and the user needs;
- user-centered information system and service development;
- information storage and retrieval systems;
- management of information, including the processes to enable the flow of information; and
- use of information and communication technology for managing and organizing information and content.

Bachelor of Science in Information Science and Technology Program

Information science, on which the Information Science and Technology program is based, is the study of the organization, storage, retrieval, dissemination, and use of information. Information technology (IT) is the collection of tools that make it possible to access and use information. Some graduates will go directly into jobs in business and industry sectors that rely heavily on information as a raw material or as a product. Other graduates may go on to graduate study in library and information science, information management, computer science, or telecommunications.

Related Area of Study. Each student will work with his/her advisor to select general electives, including related areas of study that are appropriate to his/her career goals and to complete the 120 total credit requirements for the BSIST degree. Because of its interdisciplinary and cross-functional nature, the BSIST program allows students to apply the study of the concepts and tools of information science, information architecture, and information technology to one or more related areas of study. The related area of study is a set of courses outside of the BSIST major, normally a minor or certificate in another field of study, typically including 18-22 credits. In some cases, students may choose to study two related areas as part of their BSIST program.

Related Areas of Study Selected List

- Computer Science
- Health Care Administration
- Art & Design
- General Business
- Library & Information Science
- Philosophy
- Global Studies

- Intelligent Systems
- Communications
- Digital Arts & Culture
- Mass Communication & Journalism

With the help of their advisor, students create and customize their own related area of study. This may be credit-bearing courses that students will take to prepare for certification examinations such as Microsoft certifications, CISCO, etc., or a customized selection of courses chosen by students that will sharpen their skills in one or more selected areas of study.

Career Opportunities. The Bachelor of Science in Information Science and Technology will give students a head start on any number of careers in the information industry:

- Information Architect
- Business Information Coordinator
- Network Manager
- IT Consultant
- Web Designer
- Technology Trainer
- Multimedia Specialist
- Human-Computer Interface Designer
- Software/Systems Developer
- Technical Writer
- Database Developer
- Digital Library Specialist
- E-Commerce Web Administrator

Admission to the BSIST Program

Standard UWM admission policies for freshmen and transfer students apply. Students may begin the program as freshmen or after completing several semesters as undeclared or other majors. Students may begin as transfer students from another accredited college or university or as students returning to get a second degree.

In addition to being available during standard class times, the BSIST degree is available fully online to serve students both on and off campus.

Entrance Guidelines. Students who meet the standard University admission requirements are admissible to the School of Information Studies. The same criteria for acceptance are applied to in-state and out-of-state students. For undergraduate admission requirements, see the Admission section of this catalog.

Advising. Students accepted by UWM who declare an interest in the IST program will be assigned a SOIS advisor. Students are expected to work closely with their IST advisor to tailor a program of electives to best suit their interests and career goals. IST students may also wish to explore minors or certificates in related areas such as computer science or technical writing.

Completing the Degree. The BSIST degree includes a total of 120 credits as follows:

Area I: UWM Distribution Requirements:
General Education Requirements (GER) (21 credits).

Area II: 27 required credits in the IST major:

InfoSt 110	Introduction to Information Science	3
InfoSt 210	Information Resources for Research	3
InfoSt 230	Organization of Knowledge	3
InfoSt 240	Web Design I	3

InfoSt 310	Human Factors in Information Seeking and Use	3
InfoSt 340	Introduction to Systems Analysis	3
InfoSt 410	Database Information Retrieval Systems	3
InfoSt 440	Web Application Development	3
InfoSt 490	Senior Capstone	3

Area III: Information Studies Electives (15 credits). Students take 5 additional Information Studies courses at the 300, 400, 500, or 600 level or equivalent coursework.

Area IV: BSIST Cross-functional Electives (15 credits).

Area V: General Electives, including Associate Area(s) of Study (42 credits).

To continue and graduate in the BSIST program, each student must maintain a grade point average of at least 2.5 in the major and a cumulative grade point average of at least 2.0 on all credits counted toward the degree.

Four-Year Graduation Guarantee

If a student satisfies all the obligations described in the Four-Year Graduation Guarantee, the student will be able to complete an undergraduate degree within four years. If the undergraduate degree completion in four years is delayed by the unavailability of courses, then UWM will relieve the student of the financial tuition burden for courses still required for graduation.

Minor in IST Option

For undergraduate students in other degree programs outside the School of Information Studies, SOIS also offers an undergraduate minor in Information Science and Technology (IST). Fulfillment of the minor entails completion of 18 credits from the following list of courses:

Required:

InfoSt 110	Introduction to Information Science	3
6 credits from:		
InfoSt 210	Information Resources for Research	3
InfoSt 230	Organization of Knowledge	3
InfoSt 240	Web Design I	3
9 credits from:		
InfoSt 310	Human Factors in Information Seeking and Use	3
InfoSt 330	Electronic Information Retrieval Systems	3
InfoSt 340	Introduction to Systems Analysis	3
InfoSt 410	Database Information Retrieval Systems	3
InfoSt 430	Multimedia Application Development	3
InfoSt 440	Web Application Development	3

Students who wish to become information and technology literate while pursuing studies in their major areas are candidates. For example, the minor is attractive to students majoring in the humanities, arts, and social sciences where the combination of their major field with the IST minor will help prepare students for careers in information-related work. Fields that combine well with the IST minor include English (particularly Technical Writing), Modern Languages, Communication, Mass Communication, Psychology, Sociology, and the arts. It should also be of interest to students majoring in professional fields such as Computer Science and Business Administration where the courses from IST will complement their major.

For information on SOIS's graduate degree programs, including the Master of Library and Information Science, Master of Science in Information Science & Technology, and PhD in Information Studies, see the SOIS website at uwm.edu/informationstudies.

Courses

[Information Studies](#)

(available to all undergraduates)

Faculty and Staff

Administration

Tomas Lipinski

Dean and Professor

Laretta Henderson

Associate Dean and Associate Professor

Karen Masetti-Moran

Assistant Dean (PREP)

Jarad Parker

Interim Assistant Dean (UBR)

Chad Zahrt

Assistant Dean (Student Affairs)

Laura Meyer

Business Office Assistant

Twyla McGhee

Senior Academic Advisor

Sharon Lake

Senior Academic Advisor

Angela Sadowsky

Senior Academic Advisor

Brian Williams

Senior Academic Advisor

Julie Walker

Career Services

M. Linda Barajas

University Services Program Associate

Rebecca Hall

Marketing Coordinator

Richard Kessler

Development Director

Wendy Lohr

Administrative Assistant

Claire Schultz

Marketing

Dustin Schultz

IT Coordinator

Jim Schultz

Systems Administrator

Faculty

Mohammed Aman, Prof., PhD

University of Pittsburgh

Rakesh Babu, Asst. Prof., PhD

University of North Carolina

Johannes Britz, Provost, Prof., PhD

University of Pretoria, South Africa

Alexandra Dimitroff, Assoc. Prof. Emerita, PhD

Jacques du Plessis, Assoc. Prof., PhD

Utah State University

Donald Force, Asst. Prof., PhD

University of British Columbia

Matt Friedel, Sr. Lect., MBA

Marquette University

Maria Haigh, Assoc. Prof., PhD

Drexel University

Catherine Hansen, Sr. Lect., MLIS

University of Wisconsin-Milwaukee

Shaun Hayes, Arch. Coord., MLIS

University of Pittsburgh

Laretta Henderson, Assoc. Prof., PhD

University of Iowa

Adam Hudson, Sr. Lect., MLIS

University of Wisconsin-Milwaukee

Margaret Kipp, Assoc. Prof., PhD
University of Western Ontario

Nadine Kozak, Asst. Prof., PhD
University of California-San Diego

Joyce Latham, Assoc. Prof., PhD
University of Illinois

Hur-li Lee, Assoc. Prof., PhD
Rutgers University

Steven J. Miller, Sr. Lect. Emeritus, MLIS

Xiangming Mu, Assoc. Prof., PhD
University of North Carolina at Chapel Hill

Hope Olson, Prof. Emerita, PhD

Wilhelm Peekhaus, Asst. Prof., PhD
University of Western Ontario

Shana Ponelis, Asst. Prof., PhD
University of Pretoria, South Africa

Betsy Schoeller, Lect., PhD
University of Wisconsin-Milwaukee

Lyndsay Smanz, Lect., MLIS
University of Wisconsin-Milwaukee

Richard Smiraglia, Prof., PhD
University of Chicago

James Sweetland, Prof. Emeritus

Kevin Trainor, Lect., MBA
University of Chicago

Mary Wepking, School Library Media Coordinator, MLIS
University of Wisconsin-Milwaukee

Dietmar Wolfram, Prof., PhD
University of Western Ontario

Hong (Iris) Xie, Prof., PhD
Rutgers University

Jin Zhang, Prof., PhD
University of Pittsburgh

Michael Zimmer, Assoc. Prof., PhD
New York University

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College of Nursing

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NURSING

Student Affairs Office
Cunningham Hall, Room 129
(414) 229-5047 (Milwaukee);
(262) 595-2480 (Parkside)
www.uwm.edu/nursing

Degree Programs

- Bachelor of Science (BSN)
- Master (MN)
- Doctor of Philosophy (PhD)
- Doctor of Nursing Practice (DNP)

The College of Nursing offers a Bachelor of Science degree (BS) in nursing, a Master of Nursing (MN) degree, and a Doctor of Nursing Practice (DNP) degree. These nursing programs are fully approved through the State of Wisconsin Board of Nursing and accredited by the Commission on Collegiate Nursing Education. The College also offers a Doctor of Philosophy degree (PhD) in nursing.

The undergraduate program, which is offered on the Milwaukee campus and through a Consortial Program at the UW-Parkside and UW-Washington County campuses, prepares students for beginning positions of responsibility and leadership in providing professional care for clients and their families in a variety of healthcare settings.

Students gain experience through a range of diverse programs in classroom and clinical settings.

The **Nursing Learning Resource Center (NLRC)**, which serves students, faculty, and the community, is an integral component of the undergraduate curriculum. This college laboratory is a mediated and simulated learning environment

in which students perform skills foundational to safe nursing practice in settings with clients. In addition, the NLRC houses a modern, well-equipped computer laboratory.

The **Dr. Harriet H. Werley Center for Nursing Research and Evaluation** staff work to develop the research potential of nursing faculty, students, and the nursing community they serve. Personnel offer consultation in research design, methodology, data analysis, computer programming, grant proposal writing, and writing for publication. Center staff assist faculty who have nursing research facilitator appointments in local clinical agencies, and they contract to provide research-related services to agencies that do not have direct faculty support.

The **Nursing Centers** at House of Peace and Silver Spring Neighborhood Center have three purposes: 1) provide opportunities for nursing students to conduct health screening, health assessment and information gathering, and support activities; 2) demonstrate nursing as an accountable healthcare profession; and 3) provide low-cost health promotion care to the Milwaukee community and southeastern Wisconsin. Service programs simultaneously promote faculty practice and research activities as well as student learning experiences. Student participation in the Centers' programs is guided by faculty.

The **Center for Cultural Diversity and Global Health** houses a collection of comprehensive health behavior information for culturally diverse groups in the Milwaukee community. The major goal of the center is to promote the delivery of quality health and nursing care for culturally diverse individuals, families, groups, and communities. To meet this goal, the center provides students, faculty, and health professionals stimulating learning opportunities in healthcare for culturally diverse groups through continuing education seminars, clinical practice models, and research in meeting the health needs of culturally diverse groups.

The College of Nursing's **Center for Nursing History** includes the Inez G. Hinsvark Historical Gallery, a unique learning resource located in Cunningham Hall. The significant role of nurses in history is brought to life by artifacts, mementos, and photographs as well as borrowed collections.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students will be subject to a check of criminal conviction records, prior to acceptance of a student by the placement site. Drug testing is also a requirement prior to starting clinical, as is verification of health and immunization status. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

Non-Nurse College Graduates

After prerequisites are met, non-nurse college graduates may be admitted into the professional nursing major or the master's (MN) program. Individuals' records, including consideration of related work experiences, are assessed to assign transfer credit for previous college-level coursework and to offer opportunities for credit by examination.

Admission: Pre-Professional (Freshmen)

Students intending to pursue study in professional nursing are advised to complete the following units (one unit equals one year) in high school:

- 1/2 unit of speech (if available)
- 2 - 4 units of a foreign language
- 3 units of college preparatory mathematics at or above algebra level (required by UWM)
- 1/2 unit of computer science
- 1 unit of biology
- 1 unit of chemistry
- 1 unit of history
- 3 units of social studies
- 4 units of English (required by UWM)

In addition to completing high school courses, applicants seeking admission to the pre-nursing program must have a composite ACT score of at least 19 (SAT equivalent of 910).

Admission: Pre-Professional (Transfer Students)

Students intending to transfer into the pre-nursing curriculum must meet the following criteria:

1. Completion of a minimum of 15 credits;
2. Cumulative GPA of 2.5 on all completed coursework; and
3. Completion of one transferable science class with a grade of B or better.

(The required pre-nursing science courses include: Bio Sci 101, Bio Sci 202, Bio Sci 203, Chem 101, Chem 103, and BMS 332.)

The policies and procedures of the College apply to all students even though the student may be enrolled in courses in another college or school within the University.

The general regulations governing UWM presented in this catalog apply to all pre-nursing students. The pre-nursing classification does not automatically guarantee acceptance into the nursing major.

Admission: Nursing Major

Students who seek to enter the major and meet eligibility criteria (see below) are required to file an application with the Student Affairs Office, College of Nursing. (This form is in addition to the application form required for admission to the University.) The College of Nursing Undergraduate Program Committee reviews the applications and makes recommendations for admission. **Admission to the nursing major is highly competitive. The average GPA of students accepted to the nursing major can be significantly higher than the minimum required GPA of 2.75, and a science minimum GPA of 2.5, needed for application to the major.**

Application Deadlines

Students who seek to enter the nursing major in September must submit applications by the preceding January 15; for January entrance the deadline is the preceding August 15. Applications received after these dates will be reviewed on a space-available basis.

Eligibility Criteria

Students are required to meet the following criteria to be reviewed for selection into the nursing major:

1. Satisfactorily complete or be enrolled in the following courses:

Chem 101*	Chemical Science	4
and		
Chem 103*	Survey of Biochemistry	4
Sociology (any course)		3
English 102*	Writing and Critical Thinking	3
Psych 101	Introduction to Psychology	3
Social Science Elective		3
Bio Sci 202	Anatomy and Physiology I	4
and		
Bio Sci 203	Anatomy and Physiology II	4
BMS 332	Clinical Nutrition	2
Bio Sci 101	General Survey of Microbiology	4

Nurs 203	Growth and Development Across the Lifespan	4
Nurs 102	Perspectives on Healthcare Systems	2
Nurs 101	Cultural Diversity in Healthcare	3
Nurs 251	Genetics and Genomics in Healthcare	2
Total		45

2. Courses may be repeated only once. No more than three (3) required courses may be repeated. All credit for required courses must have been earned in the 10 years preceding progression into the nursing major. Grades of less than 2.0 (C) must be replaced by grades greater than 2.0 (C) no later than August 31 for fall applicants and December 30 for spring applicants.

3. Achieve a minimum grade point average of 2.75 on a 4.0 scale and 2.5 in the required science courses. This GPA is computed on the courses listed above.

4. Achieve a minimum grade of 2.0 (C) in each required nursing and non-nursing course as listed under 1.

5. Remove all Incompletes and replace with acceptable grades before beginning the nursing major.

6. In addition to the satisfactory completion of courses listed in 1, applicants must demonstrate competency in math and English. Competencies must be fulfilled through testing or coursework by the date of entry into the clinical major. Information about competency testing is available through your advisor.

7. A statement written by the applicant to include: reason for choosing nursing and UWM; statement of long-term plans and goals; and description of work/life experience and how these are viewed in relation to nursing.

8. A letter of recommendation is required if an applicant has been enrolled in clinical nursing courses at another College of Nursing. This reference must be from the director of that College of Nursing. The letter should reflect a positive recommendation for the student's progression into the nursing major.

9. An interview with the student making application may be requested at the discretion of the Undergraduate Program Committee.

10. Following a review of the student's record and the progression of the student into the nursing major, the Undergraduate Program Committee may make recommendations intended to assist the student. These recommendations will be communicated to the student.

* Enrollment in freshman-level courses is based on placement test scores. Depending on the outcome of the placement tests, one or more of the following preparatory courses may be required before enrollment in higher-level courses is permitted: Chem 100; preparatory math courses and Math 105; English 090, 095, and 101. Credits earned in preparatory courses do not apply to the 124 credits required for graduation.

After an offer of admission to the nursing major is made, admission is contingent on demonstration of satisfactory health as evidenced by physical examination and fulfillment of the health and immunization requirements by the appropriate deadline. The College of Nursing reserves the right to require a student to seek advice of healthcare professionals where it is believed that a condition of health would impede his or her progress or jeopardize the health of others. The College of Nursing does not discriminate based on a disability and provides reasonable accommodation to qualified students on an individual basis.

Other requirements:

1. Prior to enrolling in the first semester of the Nursing Major, students will be expected to have some knowledge

of a computer word processing application. It is not recommended that students wait until they are in the course to learn this application due to time constraints. It also will be helpful if students become familiar with computer-assisted library research and use of databases.

2. Prior to enrolling in the first clinical practice course, Nurs 353, students must complete a Level 3 CPR certification program. Students will be required to upload a copy of the CPR card into the Certified Background check.

3. Upon admission to the nursing major, successful completion of a criminal background check is required. Should a background check reveal that a student has a history of a criminal charge and/or conviction, he or she will be asked to make an appointment with the Academic Affairs Coordinator to discuss the implications of this finding on his or her educational plan. For all criminal background findings, the decision to accept a student for clinical placement will be made by the clinical agency, not the College of Nursing. More information on the Wisconsin Caregiver Background Check Law is available at www.dhs.wisconsin.gov/caregiver. Consult with the College of Nursing Office of Academic Affairs at (414) 229-2310 with questions specific to this area.

Student Responsibilities in the Major

Students are expected to provide their own transportation, uniforms, books, supplies, equipment, and other learning resources, such as clients for practice experience, as deemed necessary to meet course objectives.

Health. Good physical and mental health are essential for study and practice in professional nursing. The faculty of the College of Nursing reserves the responsibility for retaining only those students who demonstrate qualities of physical and mental health generally considered to be imperative for professional nursing practice.

Health and accident insurance is not provided for students by the University of Wisconsin-Milwaukee, or by any clinical agency where students may be assigned for clinical experience. Nursing students are expected to provide for their own personal health and accident insurance coverage.

A physical examination and specified immunizations are required of all students prior to enrollment in nursing practice courses. Expenses of this examination are the student's responsibility. Evidence of a physical examination – to be completed by a nurse practitioner, physician, or a physician assistant of the student's choice – must be submitted to the UWM College of Nursing Student Affairs Office on a date specified by the College of Nursing. The examination must be completed within one year before the date on which the student begins clinical nursing coursework. Students who do not meet these requirements may not continue in a clinical nursing practicum course.

Students are required to pass a 10-panel urine drug screen prior to participating in a clinical nursing practicum course. The purposes of the drug screen are to comply with expectations of area healthcare agencies, to provide optimal healthcare, and to support professional nursing's zero tolerance position related to the unlawful use of substances. Students must abide by the drug screen policies of each healthcare agency to which they are assigned for clinical practicums.

Illness or Prolonged Absence. Students are expected to be present at all scheduled classes and clinical laboratory experiences. Since space in nursing courses is assigned during the first week of the semester, students are expected to be present for all instructional periods during that week as well. Frequent or prolonged absences from scheduled classes and/or clinical experiences may necessitate that the student drop a nursing course. Any planned interruption in coursework should be discussed with the student's advisor at the earliest possible date.

Safe Professional Practice in Clinical Settings. Students are expected to demonstrate patterns of professional behaviors that follow the legal and ethical codes of nursing; promote the actual or potential well-being of clients, healthcare workers, and self in the biological, psychological, sociological, and cultural realms; demonstrate accountability in preparation, documentation, communication, and continuity of care; and show respect for the human rights of individuals. A student whose pattern of behavior is found to be unsafe may be terminated from a clinical practicum for reason of unsafe practice at any time during the semester. If the behavior is identified before the drop date, the student will be directed to drop. If the drop date has passed, the student will receive a grade of F for the course.

In order to continue in the nursing program, a student who is terminated from a clinical practicum must appeal to the Undergraduate Program Committee for re-admission to the nursing program.

Travel. Students in nursing are responsible for arranging transportation to and from all agencies or clients' homes used to provide clinical experience for the program. They are also responsible for any related liability. Students are expected to carry insurance on their vehicles.

Uniforms. Information about the uniform, a one-time investment, is sent to each student with the official letter of acceptance into the major. Students purchase their uniforms after acceptance.

Academic Regulations

For information on actions on unsatisfactory grades and honors for scholarship, see [Academic Information](#).

Required Grade Point Average. Every nursing student is required to maintain a minimum of a C average (cumulative GPA of 2.0 on a 4.0 scale) on all work attempted in each semester or summer session. Failure to meet this minimum GPA will automatically result in a status of academic probation.

In addition to maintaining a cumulative GPA of 2.0, a student must earn at least a C (2.0) in each required nursing course. (In a practicum nursing course, a student must earn at least a C in both the clinical and theoretical components in order to receive a C as the final course grade.) Any student who earns a grade below C (2.0) in a required nursing course is automatically dropped from the nursing major. Such a student must appeal to the Undergraduate Program Committee for readmission and permission to repeat the course in which a minimum grade of C was not earned.

In a nursing course with limited enrollment or a waiting list, qualified students who have not taken the course previously will have enrollment priority. Progression to the next level of courses is not permitted until all courses of the previous level have been successfully completed.

Dropping Courses. Students should refer to a current class schedule for information concerning existing University of Wisconsin-Milwaukee drop policy guidelines and any exceptions for individual courses.

Following admission to the nursing major, a student who wishes to drop from a required or elective clinical nursing course or to withdraw must discuss the matter with the instructor, course coordinator or department chair, and the Associate Dean for Academic Affairs. In addition, the student may wish to discuss the matter with an academic advisor in the Student Affairs Office. Written approval to drop must be secured from the instructor and the Associate Dean irrespective of the week of the semester. Any such interruption in the sequence of courses following acceptance into the major requires re-admission to the clinical major. Information about applying for re-admission is available in the College of Nursing's Student Affairs Office.

Grievance Procedure. The College of Nursing has a formal written grievance procedure, available in the College of Nursing's Student Affairs Office. A grievance is defined as any situation affecting the status of a student in which the student believes his/her rights have been compromised or denied because of an erroneous or arbitrary interpretation or application of rules. Student grievances are reviewed by the College of Nursing's Undergraduate Program Committee, which recommends the disposition of the grievance to the Associate Dean for Academic Affairs. In addition, this Committee reviews and acts upon all cases of academic misconduct as described in Chapter UWS 17, UWM Student Disciplinary Procedures.

Degree Requirements

Students must earn a minimum of 124 semester credits to complete requirements for the undergraduate degree. A cumulative GPA of 2.0 for all credits earned at UWM is required for graduation. Thirty semester credits must be completed on the Milwaukee campus; at least 20 of these credits must be earned in nursing. The required courses are listed below.

Credits

Credits (All

	(GER*)	others)
English		
English 112/102	3	3
Humanities		
Consult class schedule	6	3
The Arts		
Consult class schedule	3	0
History		
Any course offered by History Department	3	3
Social Sciences (9 cr)		
Sociology – any introductory course	3	3
Psych 101	3	3
GER – Social Science Elective	3	3
Physical Sciences (14 cr)		
Bio Sci 101	4	4
Bio Sci 202, 203	8	8
BMS 332	2	2
Electives	4	10

FOREIGN LANGUAGE - Successful completion of two years of the same foreign language in high school or two semesters of the same language at the college level will meet this requirement.

NURSING

Pre-Nursing (11 cr)

101	Cultural Diversity in Healthcare	3
102	Perspectives on Healthcare Systems	2
203	Growth and Development Across the Lifespan	4
251	Genetics and Genomics in Healthcare	2

Nursing Theory and Science (62 cr)

351	Professional Role I: Foundations of Nursing Practice	3
352	Health and Illness Concepts I: Introduction	3
353	Clinical Practicum I: Foundations	3
398	Health Assessment and Promotion in Nursing Practice	3
399	Concepts of Pathophysiology and Pharmacotherapeutics I	4
400	Concepts of Pathophysiology and Pharmacotherapeutics II	4
419	Concepts of Evidence-based Nursing Practice	3
420	Professional Role II: Provider of Care	3
421	Health and Illness Concepts II: Acute and Chronic Conditions	3
422	Clinical Practicum II: Acute and Chronic Conditions	3
430	Professional Role III: Interprofessional Practice	3
431	Health and Illness Concepts III	3
432	Health and Illness Concepts IV: Population Health	3
433	Clinical Practicum III: Population Health	3
434	Nursing Informatics and Technology	3
476	Professional Role IV: Leading in Complex Systems	3
477	Health and Illness Concepts V: Complex	3
478	Clinical Practicum IV: Clinical Intensive	3
479	Clinical Practicum V: Capstone	3
480	Transition to Professional Practice	3

* All students are responsible for checking whether they must meet the UWM General Education Requirements.

Professional Credentials

Wisconsin state law requires nurses to be licensed to practice nursing within the state. Licensure is obtained by endorsement or by passing an examination. Students graduating from the College of Nursing are eligible to write the examination if they: 1) are at least 18 years of age; 2) are graduates of a high school or its equivalent; 3) are able to speak, read, and write English; and 4) pay the fee for licensure. Applicants for registration/licensure in the State of Wisconsin will be asked to state if they have ever been convicted of a criminal offense, excluding minor traffic violations. When individuals have such a conviction, an explanation is requested. An investigation may follow depending upon the circumstances and all the facts related to the situation. Some organizations may require background reviews prior to acceptance of a student by the placement site.

Registered Nurses

BSN Completion (RN-BS Program)

Flexible, affordable options have been arranged for Registered Nurses to facilitate BSN completion. These include face-to-face courses offered in partnership with area hospitals and technical colleges, the collaborative University of Wisconsin System BSN@Home online option, and the UW Flexible Option allowing for the demonstration of competency through assessment. Registered Nurses who wish to earn a baccalaureate degree can progress on a full- or part-time basis, at a speed compatible with their other personal and professional commitments.

Nurses who graduated from Wisconsin Technical Colleges after Dec. 31, 1989, can transfer credits from these programs through formal VTAE articulation agreements.

Admission. Admission requirements for all RN-BSN completion programs include a past Associates Degree or diploma in nursing and a past cumulative GPA of 2.5 or higher as well as a Wisconsin nursing license. Registered Nurses follow admission procedures for transfer students, with deadlines well in advance of the beginning of each semester. The UW Flexible Option has unique admission requirements and admits students every month. The UW Flexible Option also admits RN students with an Illinois license. For additional information about the UW Flexible Option, students can call 1-877-895-3276. To ensure success in enrollment and advising, individuals interested in BSN completion, online or face-to-face, should consult with an advisor in the Student Affairs Office, (414) 229-5047. The advisor will provide information on all degree completion options and route the student through the appropriate admission procedures. The advisor will also work with the student to complete an individual plan of study.

Degree Requirements. Registered Nurse students must earn a minimum of 124 semester credits to complete requirements for the undergraduate degree. A cumulative GPA of 2.0 for all credits earned at UWM is required for graduation. Thirty semester credits must be completed on the UWM campus; at least 20 of these credits must be earned in nursing.

NON-NURSING CREDITS

English Composition (second-semester level)	3
Humanities	3-6
The Arts	0-3
History	3
Social Science	
Growth and Development	3
Sociology	3
Psych 101	3
Physical/Biological Sciences	
Inorganic/Organic Chemistry	3
Biochemistry (or alternative)	3
Anatomy/Physiology	8
Microbiology	4

Nutrition	3
Subtotal	39-48
Electives	16-25
Total	64

Competencies

Math

English

Demonstration of mathematics and English proficiency by Registered Nurse students is a requirement for enrollment in Capstone Practicum for Registered Nurses (445). Refer to the UWM *Timetable* for definition of competencies.

Cultural Diversity

Foreign language (may or may not apply)

NURSING CREDITS

Registered Nurse students are permitted to enroll in courses out of the usual sequence in the undergraduate curriculum with the exception of Capstone Practicum for Registered Nurses (445). This is the final course and all other required courses are prerequisite to this course.

30 Nursing credits are awarded for previous nursing experience when the first nursing core course is completed with a minimum grade of C or higher.

Advanced Nursing Courses

UWS NSG 407	Foundations of Professional Nursing Practice	3
UWS NSG 441	Chronic Care Management	3
UWS NSG 454	Community Health Nursing	3
UWS NSG 446	Research Evidence-Based Practice	3
UWS NSG 447	Leadership and Management	3
UWS NSG 453	Information Management and Healthcare Technology	3
NURS 445	Capstone Practicum	3
Nursing Electives		9
Subtotal		30

Equivalent courses are available on campus.

Credit Totals

Non-Nursing	64 cr
Nursing	30 cr
Previous Nursing Credit	30 cr
Total	124 cr

Courses

Faculty and Staff

Administration

Kim Litwack

Interim Dean

Barb Daley

Interim Associate Dean for Academic Affairs

Rachel Schiffman

Associate Dean for Research, Center for Nursing Research and Evaluation

Kay Jansen

Director, Undergraduate Program

Lisa Mihlbauer

Director, RN-BSN Program

Peninnah Kako

Director, Doctor of Nursing Practice (DNP) Program

Aaron Buseh

Director, PhD Program

Ann Aschenbrenner

Director, Master of Nursing (MN) Program

Jean Bell-Calvin

Director, Clinical Services, Silver Spring Nursing Center

Beth Peterman

Director, Clinical Services, House of Peace Nursing Center and Franklin Pierce School

Sarah Morgan

Director, Nursing Learning Resource Center

Rochelle Nelson

Coordinator, UWM/UW-Parkside Consortial Nursing Program

Lauren K. Glass

Coordinator, Center for Nursing History

Anne Dressel

Director, Center for Cultural Diversity and Global Health and Institute for Urban Health Partnerships

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Assistant Dean, Student Services

Sylvia Forbes

Program Manager, RN-BS Program

Jennifer Daood

Graduate Senior Advisor

Deatra Holloway

Undergraduate Senior Advisor

Donna Wier

Undergraduate Senior Advisor

Ericka Wade

UWP/Gateway Tech Advisor

Ebony Cobb

Outreach Specialist, WCTC & MATC

Carrie Von Bohlen

Senior Advisor and Coordinator, Academic Enrichment Center

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Marquette University

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University of Wisconsin-Milwaukee

Aaron Buseh, Prof., PhD

University of Wisconsin-Milwaukee

Freddy Cao, Clinical Assoc. Prof., MD, PhD

Univeristy of Tokyo

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Joseph J. Zilber School of Public Health

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Zilber School of Public Health

University of Wisconsin-Milwaukee

1240 N. 10th Street

Milwaukee, WI 53205

p. (414) 227-3001

About Public Health

Public health is concerned with protecting the *health* and wellbeing of *entire* communities and populations. It is the science and art of preventing disease, prolonging life, and promoting health and wellbeing through the organized efforts of society. Whereas medicine mostly treats people once they become sick, those of us working in public health try to prevent people from getting sick or injured in the first place.

Public health asks: What makes some people healthy and others less healthy? How can we create a society in which everyone has a chance to thrive?

From conducting scientific research to advocating for policies and educating about health, public health professionals work to assure the conditions in which all people can be healthy. These include the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems that shape these conditions of daily life. Thus, public health covers a wide range of factors that affect population health and wellbeing, such as economic and social policies, poverty, environmental hazards, access to quality healthcare, health-promoting behaviors, and genes.

The Joseph J. Zilber School of Public Health embraces its mission to advance population health, health equity, and social and environmental justice among diverse communities in Milwaukee, the state of Wisconsin, and beyond through education, research, community engagement, and advocacy for health-promoting policies and strategies. We educate current and future public health professionals in the science, practice, critical thinking, and leadership skills necessary to promote population health and reduce health inequities.

Degree Programs

The Zilber School of Public Health offers graduate degree programs and select undergraduate courses in-person and online. An undergraduate BS degree in Public Health is under development and will begin as early as fall 2018. Current undergraduate public health courses cover a range of topics, helpful to prepare for many careers. Start with an introductory course, PH 101 and/or PH 142, and if they spark your interest, enroll in a specialized, more advanced class. These cover topics as diverse as climate change and human health (PH 303), adolescent health (PH 306), and how factors like race and racism impact population health (PH 319). PH 101 and PH 306 meet the Social Sciences (SS) GER, and PH 303 meets the Natural Sciences (NS) GER.

Our graduate degree programs include three doctoral programs in Biostatistics, Community and Behavioral Health Promotion, and Environmental Health Sciences, and the [Master of Public Health](#) (MPH) degree with five tracks: [Biostatistics](#), [Community and Behavioral Health Promotion](#), [Environmental Health Sciences](#), [Epidemiology](#), and [Public Health Policy and Administration](#). Graduates from across UWM may have an interest in one of these exciting programs

of study. Interested undergraduates should contact applyph@uwm.edu to learn more.

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THE ARTS

Peck School of the Arts Office of Student Services
(414) 229-4763

psoa-advising@uwm.edu
<http://uwm.edu/arts/advising/>

Degree Programs

Bachelor of Arts Art, Dance, Music, Theatre

Bachelor of Fine Arts Art, Art Education, Dance, Film, Inter-Arts, Music, Music Education, Theatre

Master of Arts Art

Master of Fine Arts Art, Performing Arts (Dance and Film)

Master of Music (including Music Education)

Master of Science Art Education

The Peck School of the Arts includes five departments: Art & Design, Dance, Film, Music, and Theatre. Curricula are available for students interested in careers in the arts or in teaching at the elementary, secondary, or college level. An Inter-Arts major, which prepares the student for an interdisciplinary arts career, is also offered.

ATTENTION - Special Information Regarding Laptop Requirement in Peck School of the Arts Degree Programs.

All students entering the following degree programs/areas in the Peck School of the Arts are required to participate in the PSOA Laptop Program:

- BFA/BA Art & Design;
- BFA/BA Dance;
- BFA Film;
- BFA Music Composition and Technology Track in the Department of Music;
- BFA Production and BA Theatre Education programs in the Department of Theatre; and
- BFA Interdisciplinary Arts and Technology Track (IAT) of the Inter-Arts Program.

This includes students transferring from an institution external to UWM or from another UWM program, school, or college. Requirements will include either the purchase of or regular access to a laptop. The laptop must be equipped to enable students to effectively perform all required coursework, including that accomplished during class time. For additional information, please see requirements posted on the PSOA Laptop Requirement web page:

uwm.edu/arts/apply/laptop.

Admission

New Freshmen. New freshmen must meet the general University admission requirements (as described in the front section of this catalog) in addition to specific department requirements. Admission to all music programs requires an audition and a theory placement examination. Admission to the Musical Theatre track of the Inter-Arts degree program requires a live audition interview. A portfolio of artworks is required by the Department of Art & Design. For details, please refer to the individual department sections of this catalog.

Transfer Students. Transfer students from other universities and colleges or UWM units are accepted by the Peck School of the Arts provided they meet the UWM admissions criteria and have a 2.0 cumulative GPA (on a 4-point scale). They must also meet the specific departmental audition requirements described above. Although a portfolio is not required for acceptance into the Department of Art & Design, the submission of a portfolio is helpful in evaluating a student's work for advanced placement.

Second Bachelor's Degree Candidates. Students with good scholastic records who wish to earn a second bachelor's degree in the Peck School of the Arts must obtain the recommendation of the Peck School of the Arts department in which they wish to major before they can be accepted. Upon acceptance, students must earn in residence a minimum of 30 credits beyond the studies for the first degree and must satisfy all curriculum requirements.

New Major Program. By choosing this program, students who have completed baccalaureate degrees at UWM or other accredited institutions may earn an additional major only. It is not necessary to complete all requirements for an additional baccalaureate degree or to observe the 30-credit-in-residence regulation. At present, the Departments of Art & Design, Dance, Film, and Music offer majors through this option.

Degree Requirements

Students must earn their last 30 credits in residence at UWM. Of this total, a minimum of 15 credits must be in advanced major subjects. Under extraordinary circumstances, a student may receive permission to earn a maximum of 9 credits of the last 30 credits at another college/university but must obtain the written approval of the Director of Student Services prior to enrollment in such courses.

Bachelor of Arts Degree in Art, Dance, Music, and Theatre. Requires a total of 120 credits. To receive this degree, students must fulfill the requirements listed in Nos. 1-4 under the BFA degree below. See the individual department listings in this catalog for additional information.

Bachelor of Fine Arts Degree in Art, Dance, Film, Inter-Arts, Music, or Theatre. Requires a total of 120-130 credits. To receive this degree students must:

1. Attain a minimum GPA of 2.0 for all university-level work;
2. Fulfill all the curriculum requirements of the School and of the departmental major, and the University's General Education Requirements;
3. Meet the specific departmental standards; and
4. Fulfill the residence requirements as detailed above.

Bachelor of Fine Arts Degree with Teacher Certification in Art or Music and Bachelor of Arts Degree in Theatre with Teacher Certification. The BFA degree in Art Education or Music Education requires a total of 130 credits; the BA degree in theatre with teacher certification requires a total of 120 credits. To receive these degrees students must:

1. Attain a minimum cumulative GPA of 2.75;
2. Fulfill all curriculum requirements of the School, of the departmental major, and the University's General Education Requirements;
3. Fulfill the certification requirements in human relations (see School of Education section of this catalog), developmental reading, and exceptional education (see Teacher Certification Program description below for details and admission requirements);
4. Fulfill the Act 31 certification requirement regarding "specific attention to the history, culture, and tribal sovereignty of the federally recognized American Indian tribes and bands located in this state" through selected coursework. Consult with the Director of Student Services for specific courses; and
5. Fulfill residence requirements as described above.

Post-baccalaureate Teacher Certification Program. Offered in art, music, and theatre. All applicants should consult the appropriate department chairperson concerning requirements in these programs.

Teacher Certification Program - Peck School of the Arts

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

All PSOA teacher education students (art, music, theatre) are required to keep a portfolio of evidence to document satisfaction of PI 34 standards. Portfolio content is defined, evaluated, and reviewed by individual programs. Passing scores on the Praxis I and successful completion of K-12 required classes are required before admission to student teaching. Art, music, and theatre teacher education students are also required to pass the content test (Praxis II) prior to student teaching. See specific program for more information.

Admission Requirements. All students should submit an application to the Director of Student Services and confer with the education area head of their department.

Art education students may apply to the program upon completion of **30 credits** if they have fulfilled the freshman year foundation courses in art and the requirements listed below.

Music education majors may apply upon completion of 58 credits and junior standing and the listed requirements.

Theatre teacher certification students may apply upon completion of the required 32-credit core in the major, junior standing, and the requirements listed below. In addition, theatre certification students must successfully pass an interview with theatre certification faculty.

All students must attain the following before making application to the teacher certification programs in art, music, and theatre:

Grade Point Average. 2.75.

Communication Competency. A grade of C or higher in one of the following: Commun 101 or 103.

The communicative abilities of students remain under constant review as a factor for retention in the program. Students experiencing communication difficulty may be remanded for remedial work. Students who have satisfactorily completed an interpersonal course at another college or university may request an evaluation of their communication status through the Department of Communication.

English Composition Requirement. The English Composition Requirement is satisfied by earning a grade of C or higher in English 102 or its equivalent, or by scoring 637 or better on the English Placement Test (or an appropriate score as determined by the Department of English on the English ACT examination).

Mathematical Skills Requirement. Must be demonstrated by achieving a placement code of at least 30 on the mathematics placement test, or by earning at least 3 credits with a grade of C or higher in Mathematical Sciences 103 (formerly 106), 105, 109/175, or equivalent courses.

Pre-Professional Skills Requirement (PPSR). Must earn scores in Reading-175, Math-173, Writing-174. Registration forms are available in the Peck School of the Arts Office of Student Services.

Developmental Reading Course Requirement. All teachers of special subjects (e.g., music, art, theatre) wishing to be certified by the State of Wisconsin (K-12) must complete one course in developmental reading at the elementary or secondary level.

At present, the Department of Curriculum and Instruction offers CurrIns 343, for those interested in the elementary level, and CurrIns 545, for those interested in the secondary level. Only one of these 3-credit courses is necessary to fulfill the requirement. This course may be applied toward the core curriculum requirement.

Exceptional Education Requirement. Persons applying for an initial license to teach any subject in the elementary and secondary schools of Wisconsin after July 1, 1981, must have completed at least 3 credits or the equivalent study of exceptional education to be eligible for a license. See the Art, Dance, Music, or Theatre Department sections for appropriate course requirements.

Student Teaching. Eligibility for student teaching is determined by admission to the Teacher Certification Program of the Peck School of the Arts, departmental recommendation, and completion of all prerequisite courses and any other departmental requirements.

In general, education methods courses are not transferable from other institutions. These courses must be taken in residence. Other criteria include removal of all incompletes in required courses, compliance with the Human Relations Requirement, satisfactory class standing, health clearance, recommendation by the department, and submission of the student teacher application.

Applications to student teach during the first semester are due March 15; during the second semester, October 15. Application blanks are available in, and must be filed with, the Peck School of the Arts Office of Student Services. No

applications will be accepted after these dates.

Teacher's License Applications. Students eligible for graduation are not automatically recommended for certification to the State Department of Public Instruction. They must first be approved for certification by their departments.

After all requirements for the BFA or BA degree with Teacher Certification or a post-baccalaureate degree certification program are completed, and the departmental approval is obtained, a student may apply for a state teacher's license. A Wisconsin Credential Application form is available from the Peck School of the Arts Office of Student Services, UWM, P.O. Box 413, Milwaukee, Wisconsin 53201, or from the Wisconsin Department of Public Instruction, 126 Langdon Street, Madison, Wisconsin 53702.

The Department of Public Instruction conducts a criminal record check of each applicant for a teaching license. Based on this information, an applicant may be denied a license even if recommended for certification by the University.

Declaration of Submajor

In most instances, after two years of basic preparatory courses in the major, students choose an area of specialization within their respective departments, known as a submajor. Students must declare a submajor after they have accumulated 45 to 75 credits in order to assure completion of the appropriate curriculum requirements for graduation.

Academic Regulations

For information on actions on unsatisfactory grades and honors for scholarship, see [Academic Information](#) - University-wide Academic Action Policy, and Honors for Scholarship.

Semester Credit Load. A full-time Peck School of the Arts student is one who takes a minimum of 12 credits per semester. Normally, Peck School of the Arts students are not permitted to carry more than 18 credits per semester. Students who have a cumulative GPA of 3.0 or higher may, with the permission of the Peck School of the Arts Office of Student Services, carry up to 21 credits per semester.

Program Changes. All program changes must be signed by the instructor and the Peck School of the Arts Office of Student Services.

No studio or performance courses may be dropped after the second week of classes without the written approval of the instructor and the department chairperson. Certain other courses may require this approval also and these will be indicated in the semester's *Schedule of Classes*.

For general information and instructions regarding program changes, see the [Academic Information](#) page.

Audit Courses. No studio or performance courses may be audited. For general information regarding the UWM audit policy, see [Academic Opportunities](#).

Independent Study. Under special conditions, juniors and seniors are permitted to take courses in independent study. For regulations on independent study, see the departmental advisor.

Special Opportunities

Honors Program. The Peck School of the Arts confers a Bachelor of Fine Arts Honors degree upon those students who complete the University Honors Program. The "Honors" designation appears on both the diploma and transcript.

This program offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences to qualified students who desire more intensive and individualized studies. Application forms and further information are available from the [Honors College](#), Honors House 154, (414) 229-4658.

Foreign Study. The Peck School of the Arts looks favorably upon foreign educational experiences and encourages students to seek study abroad at accredited institutions. Every effort will be made to integrate such courses into a

student's major program. Students should consult the departments involved prior to registration at a foreign university.

Periodically, the Department of Art & Design offers credit courses in foreign countries under the direction and instruction of Department of Art & Design faculty members.

The Arts Core Curriculum

In addition to the specific requirements of their majors, all Peck School of the Arts students must fulfill the core curriculum (45 cr), which includes competency in English composition and mathematical skills as described below. Students need not complete the core curriculum before registration in a professional program.

Students are expected to begin work in their major fields during the freshman year. Core courses are taken concurrently with the course sequence of the major. Any questions regarding core curriculum requirements or changes should be directed to the Peck School of the Arts Office of Student Services.

The core curriculum requires a minimum of 45 credits and includes the University's General Education Requirements.

COMPETENCY REQUIREMENTS

Oral and Written Communication (OWC) Competency

OWC Part A: Completion of OWC Part A can be demonstrated by satisfying one of the following options:

1. earning at least three credits with a grade of C or higher in English 102;* or
2. transferring at least three credits with a grade of C or higher in a course equivalent to English 102 or higher level expository writing course;* or
3. achieving an appropriate score on the English Placement Test (EPT).

OWC Part B: The OWC Part B is satisfied by completing an approved advanced course (at least three credits) with a significant written or oral communication component by students who have completed the Part A requirement.

Peck School of the Arts majors should contact the PSOA Student Services Office for information on the course in their major that will satisfy the OWC Part B requirement.

Quantitative Literacy (QL) Competency

QL Part A: Completion of QL Part A can be demonstrated by satisfying one of the following options:

1. earning at least three credits with a grade of C or higher in Math 103 (formerly 106), 105, 175 or equivalent courses;* or
2. achieving a placement code of at least 30 on the mathematics placement test.

QL Part B: The QL Part B is satisfied by completing at least one approved QL Part B course (at least three credits) as decided by the major. QL Part B courses make significant use of quantitative tools in the context of other course material.

* These courses may not be taken credit/no credit if they are to be used to satisfy the OWC Part A requirement or QL Part A requirement.

Foreign Language. Completion of the foreign language requirement can be demonstrated by satisfying one of the following options:

1. complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language; or
2. complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level

- instruction in a single foreign language; or
3. demonstrate foreign language ability at least equivalent to No. 2 above by means of a satisfactory score on an approved placement, proficiency, departmental, or other appropriate examination.

DISTRIBUTION REQUIREMENTS AND ELECTIVES: 30 CREDITS

Thirty credits of distribution requirements and electives chosen from any school or college outside the Peck School of the Arts:

Arts (appropriate courses earned in the major may satisfy)	3
Humanities	6
Social Sciences	6
Natural Sciences	6
Cultural Diversity (May be met by any 3-credit course so designated and which has been approved for GER distribution in the humanities, social sciences, or the arts.)	
Electives (depends upon the major)	0-18

Two courses, totaling 6 credits, must be taken in the humanities, social sciences, and natural sciences. At least one of the natural science courses must include a laboratory or field experience. Courses that satisfy this distribution requirement are listed in the current *Schedule of Classes*. Special departmental curricula may specify certain courses to be included in the 30-credit requirement. Consult curriculum requirements.

PECK SCHOOL OF THE ARTS COURSE REQUIREMENT: 12 CREDITS

Nine credits are required in Peck School of the Arts courses outside the student's discipline, i.e., art, dance, film, music, or theatre. These credits are to be distributed as follows: Three credits must be taken in each of three Arts disciplines. In addition, three credits must be taken in any one of the five disciplines in the Peck School of the Arts at the discretion of the student's major department. (Do not confuse the term "discipline" with a concentration, e.g., ceramics, music performance, or costume construction, etc.)

A list of suggested courses to fulfill this requirement is available in the Peck School of the Arts Office of Student Services.

Free Electives: 3 Cr

Remaining credits (3) of the 45-credit total required may be elected from any area of the University, including Peck School of the Arts courses outside the student's discipline.

Faculty and Staff

ADMINISTRATION

Scott Emmons

Dean

Kimberly Cosier

Associate Dean

James Burmeister

Interim Assistant Dean

Amanda Obermeyer

Assistant Dean for Business Administration

Louis Molina

Assistant Dean of Student Services

Rebecca Christman

Assistant to the Dean

ART & DESIGN

John Balsley, Prof. Emeritus, MFA

Kimberly Beckmann, Assoc. Prof., MFA

Cranbrook Academy of Art

Adream Blair, Assoc. Prof., MA

North Carolina State University

Marna Brauner, Prof. Emerita, MFA

Robert Burkert, Prof. Emeritus, MS

Kyoung Ae Cho, Prof., MFA, Chair

Cranbrook Academy of Art

Allison Cooke, Sr. Lect. Emerita, MFA

Kimberly Cosier, Prof., PhD, Assoc. Dean

Indiana University

Christopher Davis-Benavides, Prof., MFA

University of Wisconsin-Milwaukee

Raoul Deal, Sr. Lect., MA

National School of Plastic Arts, UNAM (San Carlos)

Lee Ann Garrison, Assoc. Prof. Emerita, MFA

Robert Grame, Assoc. Prof., MFA

Kansas State University

Shelleen Greene, Assoc. Prof., PhD

University of California, Irvine

Karen Gunderman, Prof. Emerita, MFA

Rolf Hickman, Prof. Emeritus, MEd

Yevgeniya Kaganovich, Prof., MFA

State University of New York at New Paltz

Kay Knight, Assoc. Prof. Emerita, MFA

Charles Kraus, Prof. Emeritus, MFA

Frank G. Lutz, Prof. Emeritus, MFA

Jessica Meuninck Ganger, Assoc. Prof., MFA
Minneapolis College of Art and Design

Lisa Moline, Assoc. Prof., MFA
University of Wisconsin-Madison

Joseph Mougel, Asst. Prof., MFA
University of New Mexico

William Nichols, Prof. Emeritus, MFA

Josie Osborne, Sr. Lect., MFA
University of Wisconsin-Madison

Narendra Patel, Prof. Emeritus, MFA

Stephen Pevnick, Prof. Emeritus, MFA

Adolph Rosenblatt, Prof. Emeritus, BFA

Stephen B. Samerjan, Assoc. Prof. Emeritus, MFA

Denis Sargent, Prof. Emeritus, MFA

William Smith, Prof. Emeritus, PhD

Nathaniel Stern, Assoc. Prof., PhD
New York University

Leon Travanti, Prof. Emeritus, MFA

Leslie Vansen, Prof., MFA
University of Colorado

Christine Woywod, Asst. Prof., PhD
Northern Illinois University, Dekalb

DANCE

Daniel Burkholder, Asst. Prof., MFA
University of Wisconsin-Milwaukee

Ferne Caulker-Bronson, Prof. Emerita, BS

Simone Ferro, Prof., MFA
University of Iowa

Maria Gillespie, Asst. Prof., MFA
University of California, Los Angeles

Gloria Gustafson, Assoc. Prof. Emerita, BA

Mary Hibbard, Asst. Prof. Emerita

Danielle Kuepper, Sr. Lect., MFA
University of Wisconsin-Milwaukee

Marcia Parsons, Prof., M.A.
University of Illinois at Urbana-Champaign

Darci Brown Wutz, Prof., MFA, Chair
Smith College

FILM

Richard Blau, Prof. Emeritus, PhD

Carl Bogner, Sr. Lect., MFA
University of Wisconsin-Milwaukee

Portia Cobb, Assoc. Prof., MA
San Francisco State University

Cecelia Condit, Prof., MFA
Tyler School of Art, Temple University

Rob Danielson, Assoc. Prof. Emeritus, MFA

Lori Felker, Asst. Prof., MFA
School of the Art Institute of Chicago

Steven Foster, Prof. Emeritus, MFA

Kelly Kirshner, Asst. Prof., PhD
University of California, Irvine

Diane Kitchen, Prof. Emerita, MFA

Jesse McLean, Asst. Prof., MFA
University of California, Irvine

Stephen Wetzel, Asst. Prof., MFA
University of Wisconsin-Milwaukee

Iverson White, Assoc. Prof., MFA
University of California, Los Angeles

Rob Yeo, Assoc. Prof., MFA, Chair
School of the Art Institute of Chicago

MUSIC

Elena Abend, Sr. Lect., MM
The Juilliard School

Beverly Belfer, Sr. Lect., MM
University of Wisconsin-Milwaukee

Barry Benjamin, Prof. Emeritus, BM

Efim Boico, Prof., Diploma

Gnessin Music School, Moscow, Russia

Jane Bowers, Prof. Emerita, PhD

Mitchell Brauner, Assoc. Prof. Emeritus, PhD

James Burmeister, Sr. Lect. and Interim Asst. Dean, MM

University of Michigan

John Climer, Prof., DMA

University of Missouri-Kansas City

Jennifer Clippert, Asst. Prof., DM

Northwestern University

Robert Cohen, Artist-in-Residence, Diploma

Guildhall School of Music and Drama, London

Wayne Cook, Prof. Emeritus, MS

Scott Corley, Sr. Lect., MM

University of Georgia

Margery Deutsch, Prof. Emerita, MM

Zachary Durlam, Asst. Prof., DMA

Michigan State University

William H. Duvall, Jr., Assoc. Prof. Emeritus, MMA

Thomas Dvorak, Prof. Emeritus, MM

Scott Emmons, Prof., PhD, Dean

Eastman School of Music

Valerie Errante, Assoc. Prof. Emerita, DMA

Ralph Evans, Prof., DMA

Yale University

Sheila Feay-Shaw, Assoc. Prof., PhD

University of Washington

Gregory Flint, Assoc. Prof., BM

Northwestern University

Robert Goodberg, Prof. Emeritus, MA

Curt Hanrahan, Sr. Lect., MM

University of Wisconsin-Madison

Gloria Hansen, Sr. Lect., MM
University of Wisconsin-Milwaukee

Sharon A. Hansen, Prof. Emerita, DMA

Kevin Hartman, Prof., MM
Northwestern University

William Heinrichs, Assoc. Prof., PhD
University of Iowa

Juan-Miguel Hernandez, Artist-in-Residence, Graduate Diploma
New England Conservatory

Jerry Horner, Prof. Emeritus, MM

Rene Izquierdo, Assoc. Prof., MM
Yale University

Judit Jaimes, Prof. Emerita, BM

Stefan Kartman, Prof., MM
Juilliard School of Music

Jun Kim, Asst. Prof., DMA
University of Cincinnati

Abram Loft, Distinguished Prof. Emeritus, PhD

Franklin S. Miller, Assoc. Prof. Emeritus, PhD

Jonathan Monhardt, Sr. Inst. Spec., PhD
University of Iowa

Daniel Nelson, Prof. Emeritus, MM

Stephen Nelson-Raney, Sr. Lect. Emeritus, MMed

Tim Noonan, Sr. Lect., PhD
University of Wisconsin-Madison

Mary Pautz, Assoc. Prof. Emerita, PhD

Jeffrey Peterson, Prof., MM
University of Illinois-Urbana

Gillian Rodger, Assoc. Prof., PhD
University of Pittsburgh

Tanya Kruse Ruck, Asst. Prof., MM
University of Cincinnati

William R. Schmid, Prof. Emeritus, PhD

John Stropes, Faculty Associate, BS
University of Wisconsin-Milwaukee

Gregoria Karides Suchy, Prof. Emerita, MM

Robert K. Thompson, Prof. Emeritus, BM

Jon Welstead, Prof., PhD, Chair
University of Iowa

Yehuda Yannay, Prof. Emeritus, DMA

Bernard Zinck, Assoc. Prof., MM
The Juilliard School

THEATRE

Anne Basting, Prof., PhD
University of Minnesota

Richard H. Graham, Assoc. Prof., BFA
North Carolina School of Performing Arts

Christopher Guse, Assoc. Prof., BFA
University of Wisconsin-Milwaukee

Rebecca Holderness, Assoc. Prof., MFA
Columbia University

Anthony Horne, Assoc. Prof., MFA
University of Memphis

Jeffrey Lieder, Prof., MFA
Ohio State University

Michelle Lopez-Rios, Assoc. Prof., MFA
University of Houston

Raeleen McMillion, Sr. Lect., MFA
Ohio University

Robin Mello, Assoc. Prof., PhD
Lesley University

Corliss E. Phillabaum, Prof. Emeritus, PhD

Alvaro Saar Rios, Asst. Prof., MFA
Northwestern University

Pamela Schermer, Assoc. Prof., MFA
Queens College

LeRoy Stoner, Assoc. Prof., MA, Chair
Indiana University

Sandra Strawn, Prof., BSE
Emporia State University

Jewel Walker, Prof. Emeritus

William Watson, Assoc. Prof., MFA
University of Washington

Stephen White, Sr. Lect., MFA
Northwestern University

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SOCIAL WELFARE

Student Services

Enderis Hall, Room 1110

(414) 229-4852

uwm.edu/socialwelfare

Degree Programs

Bachelor of Science Criminal Justice, Social Work

Master of Science Criminal Justice

Master of Social Work

Doctor of Philosophy Social Welfare

The Helen Bader School of Social Welfare offers programs to educate students about social policies and programs, and to train them for beginning level practice in a variety of professional roles in social work and criminal justice. Its location in metropolitan Milwaukee gives students numerous opportunities to gain practical experience in social, health, educational, or criminal justice agencies.

Undergraduate majors in both social work and criminal justice lead to the Bachelor of Science degree, and are designed to prepare students for available entry-level positions in their respective fields. These programs also provide excellent preparation for graduate work.

The School also offers graduate programs at the master's degree level in both criminal justice and social work (see the *UWM Graduate School Bulletin*).

Requirements for Employment, Licensing, or Professional Organizations. Effective October 1, 1998, changes in Chapters 48 (Children's Code) and 50 (Uniform Licensure) of the Wisconsin State Statutes make it a requirement for selected organizations to perform rigorous background checks of persons who provide care for vulnerable adults and children or who have access to people who receive such care.

The results of these background checks are intended to help employers and government officials in making employment and licensing decisions. The law affects anyone who is employed as a caregiver or who has access to clients within caregiving organizations, **including students**. The organizations required to perform these background checks are those that are regulated by the State Department of Health and Family Services (DHFS).

The law means that if you are going to train (including a field or clinical placement) or work in an agency providing care to vulnerable adults or children, and that agency is regulated by DHFS, a background check will be required of you. A background check may be required even if you do not have direct caregiving responsibilities to clients. Depending on the circumstances, a student may be disqualified from field placement in certain agencies as a result of this law. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly.

Admission

Freshmen entering UWM who indicate an interest in criminal justice or social work are admitted directly into the Helen Bader School of Social Welfare, and are designated criminal justice or social work intended majors.

Admission to the University does not guarantee enrollment in the social work or criminal justice major; separate applications will be required for these programs in the junior year.

Transfer students who transfer from outside UWM to criminal justice or social work become criminal justice or social work intended majors upon admission regardless of the number of credits they transfer. They can apply for admission to the major when they have at least junior standing and have completed one full-time semester or the equivalent at UWM. Those who transfer from two-year UW College campuses, Milwaukee Area Technical College, and other two-year institutions (junior colleges) are generally allowed to transfer up to 72 credits toward a degree in the Helen Bader School of Social Welfare.

Second bachelor's degree students applying to the University who already hold one bachelor's degree and who wish to pursue a second degree in either criminal justice or social work are admitted as intended majors and then apply for admission to the major. They must complete at least 30 credits at UWM beyond the credits that counted toward the first degree, and must satisfy the same degree and curriculum requirements as students working towards a first degree in the same major.

Special students in the Helen Bader School of Social Welfare and University special students are permitted to register in any undergraduate course offered by the School, provided they meet the stated prerequisites or are admitted to the course by the instructor.

Degree Requirements

To receive the bachelor's degree with a criminal justice or social work major, the student must complete at least 30 degree credits at UWM. In both majors, an overall GPA (including non-UWM college work) of 2.0 and a total of 120 credits are needed for graduation. At least 15 credits in the criminal justice or 21 credits in the social work portion of the major must be earned at UWM. Social work students must complete at least one semester of field placement at UWM. Students must earn their last 30 credits at UWM.

Course of Study

All social work and criminal justice majors who began their education in fall 1999 or later must meet the requirements below. Others should contact an advisor in the School to determine their degree requirements.

GENERAL CURRICULUM REQUIREMENTS: SOCIAL WORK AND CRIMINAL JUSTICE

For courses that satisfy the distribution requirements in humanities, natural science, and social science, see the GER listing in the current *Timetable*. The UWM General Education Requirements apply to all students who were not enrolled in an accredited institution prior to 1986.

Proficiency Requirements in English and Mathematics. Refer to General Education Requirements. Contact a school advisor for specific information.

Liberal Arts Foundation. The student must fulfill the following course distribution requirements:

Arts. 3 credits of General Education-approved arts course in the history, philosophy, theory, or practice of the creative and interpretive arts.

Foreign Language. Completion of two years of high school-level instruction in a single foreign language, or satisfactory completion of at least two semesters of a single foreign language, or approved demonstration of foreign language ability.

Humanities. 12 credits of General Education-approved humanities courses, including Commun 103, Public Speaking.

Natural Science. 6 credits of General Education-approved natural science courses to include a lab or field course.

United States History and Institutions, 6 credits. Either one continuous-year course in U.S. history chosen from option I below or one semester in advanced U.S. history courses (numbered over 400) **plus** one of the courses taken from option II.

OPTION I

Hist 151	American History: 1607 to 1865	3
and		
Hist 152	American History: 1865 to the Present	3
or		
Hist 421	American Thought and Culture: To 1860	3
and		
Hist 422	American Thought and Culture: Since 1860	3

OPTION II

Econ 100	Introduction to Economics	3
Econ 103	Principles of Microeconomics	3
Pol Sci 104	American Politics: The National Scene	3
Pol Sci 105	State Politics	
Pol Sci 385	American Political Thought	3
Pol Sci 405	State Government	3
Pol Sci 411	Constitutional Law: The Supreme Court and Political Process	3
Pol Sci 412	Constitutional Law: Individual Rights and Liberties	3
Pol Sci 471	Special Problems in Civil Liberties	3
Sociol 200	Contemporary American Society	3

REQUIREMENTS IN THE MAJOR

A minimum total of 57-69 credits is required. See the section on the social work and criminal justice majors.

ELECTIVES

Students may take up to 30 elective credits in courses outside the Helen Bader School of Social Welfare and the College of Letters and Science. Credits earned in H687 (Senior Honors Project) or H688/689 (Senior Honors Thesis) will not count towards either major.

Academic Regulations

For information on actions on unsatisfactory grades and honors for scholarship, see [Academic Information](#).

Semester Course Load. Registration for more than 18 credits in a given semester requires the advisor's permission. For students in the School's majors, this permission will be given upon advice of the appropriate program chair.

Change in Requirements. If curriculum requirements are changed after the student has been formally accepted in the major, the student is free to remain with the former requirements or to follow the new ones.

[Social Work](#)

[Criminal Justice](#)

Faculty and Staff

Administration

Stan Stojkovic

Dean

Gwat Lie

Associate Dean

Joan Blakey

Chair, Social Work Department

Margaret Maillet

Coordinator, Undergraduate Social Work Program

Tina Freiburger

Chair, Criminal Justice Department

Social Work

Johanna Bartei, Clinical Asst. Prof., MSW

University of Wisconsin-Madison

Lisa Berger, Assoc. Prof., PhD
University of Wisconsin-Milwaukee

Joan Blakey, Asst. Prof., PhD
University of Chicago

Michael Brondino, Assoc. Prof., PhD
University of South Carolina

Roberta Hanus, Clinical Assoc. Prof., MSW
University of California, Berkeley

Melinda Kavanaugh, Asst. Prof., PhD
University of Wisconsin-Madison

Gwat Lie, Assoc. Prof., PhD
University of Wisconsin-Madison

Margaret Maillet, Senior Lecturer, PhD
Louisiana State University

Katie Mangan, Clinical Assoc. Prof., MSW
University of Wisconsin-Milwaukee

Steve McMurtry, Prof., PhD
University of Wisconsin-Madison

Josh Mersky, Assoc. Prof., PhD
University of Wisconsin-Madison

Laura Otto-Salaj, Assoc. Prof., PhD
Temple University

David Pate, Assoc. Prof., PhD
University of Wisconsin-Madison

Nancy Rolock, Asst. Prof., PhD
University of Illinois-Chicago

Susan Rose, Prof., PhD
University of Illinois-Chicago

Timothy Schwaller, Clinical Asst. Prof., MS
University of Wisconsin-Milwaukee

James Dimitri Topitzes, Assoc. Prof., PhD
University of Wisconsin-Madison

Jeanne Wagner, Clinical Assoc. Prof., MSW
Jane Addams College of Social Work

Criminal Justice

Steven G. Brandl, Prof., PhD
Michigan State University

Tina Freiburger, Assoc. Prof., PhD
Indiana University of Pennsylvania

Kimberly Hassell, Assoc. Prof., PhD
University of Nebraska-Omaha

Rebecca Headley, Asst. Prof., PhD
Georgia State University

Thomas LeBel, Assoc. Prof., PhD
SUNY-Albany

Stan Stojkovic, Prof., PhD
Michigan State University

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College of Health Sciences

Office of Student Affairs
2025 E. Newport
NWQ Building B 6th floor, Room 6425
(414) 229-2758
chs-info@uwm.edu

Degree Programs

Bachelor of Science Programs Available to Incoming Freshman in 2017-18: Biomedical Sciences (BMS-Biomedical Science, BMS-Cytotechnology, BMS-Diagnostic Medical Sonography, BMS-Medical Laboratory Science, BMS-Public Health Microbiology, BMS-Radiologic Technology, BMS-Diagnostic Imaging Completion, BMS-Diagnostic Imaging Completion - FLEX Option, BMS-Health Sciences Completion), Communication Sciences and Disorders, Health Care Administration, Kinesiology, Nutritional Sciences, and Occupational Studies.

Master of Science Programs Available to Incoming Graduate Students in 2017-18: Athletic Training, Biomedical Sciences, Kinesiology, Communication Sciences and Disorders, Healthcare Administration, Occupational Therapy, and Health Care Informatics

Doctor of Philosophy Health Sciences and Kinesiology

Doctor of Physical Therapy

Faculty and Scholars

UWM's College of Health Sciences' faculty comprises an esteemed group of scholars. The research activities of our faculty and staff encompass groundbreaking urban and population studies, pioneering biomedical research investigations, advances in movement science, ingenious rehabilitation research and development, innovative applied clinical technologies, and novel disease prevention approaches. These activities are supported by the resources of eight academic centers and twenty-seven state of the art laboratories within the College, and millions of dollars in funds from reputable institutions, such as the National Institutes of Health, the National Science Foundation, the Centers for Disease Control and Prevention, and the U.S. Department of Education.

Facilities: Laboratories, Centers, and Clinics

CLINICS (open to the public): Speech and Language Clinic, UW-Milwaukee Audiology Group

LABORATORIES (Research and Teaching)

Communication Sciences and Disorders: Aphasia Laboratory, Augmentative and Alternative Communication Laboratory, Child Language Laboratory, Dysphagia Laboratory, Language Analysis Laboratory, Speech Science Laboratory, Stuttering and Fluency Laboratory.

Biomedical Sciences: Biomedical Sciences Laboratory, Immunology Laboratory, Lyme Borreliosis Laboratory, Medical Microbiology Laboratory, Multiple Sclerosis Laboratory, Pharmacology/Toxicology Laboratory, Prostate Cancer Laboratory.

Health Informatics and Administration: Social Media and Health Research and Training Laboratory

Kinesiology: Body Weight and Shape Research Laboratory, Human Performance and Sport Physiology Laboratory, Laboratory for Sport Psychology and Performance Excellence, Neuromechanics Laboratory, Pediatric Neuromotor Laboratory, Photomedicine Research Laboratory, Physical Activity and Health Research Laboratory, Visumotor Laboratory.

Occupational Therapy: Assistive Technology and Universal Access (ATUA) Laboratory, Behavioral Health and Human Occupation Laboratory, Gait Analysis and Biodynamics Laboratory, Occupational Ergonomics Laboratory, Mobility Laboratory.

CENTERS (Research and Training)

Campus Ergonomics Services, Center for Aging and Translational Research, Center for Biomedical Data and Language Processing (BioDLP), Center for Forensic Science, Center for Urban Population Health, Performance and Injury Center, Rehabilitation Research Design and Disability (R2D2) Center, The HUB Wellness Center.

Certificate Programs

Baccalaureate

Forensic Sciences (Death Investigation, Forensic Sciences, and Forensic Toxicology), Health Care Informatics, Healthy Aging, Strength and Conditioning, Study of Complementary and Alternative Medicine, Molecular Diagnostics, and Therapeutic Recreation

Admission

The College of Health Sciences is the largest school of its kind in the state of Wisconsin. It prepares students for careers in health care administration and informatics, diagnostic medicine, health and fitness, and the rehabilitation therapies. Our metropolitan location gives us ties to more than 100 local health care and recreation agencies, providing jobs, a setting for practical experience to augment classroom instruction, and community service opportunities.

Freshmen are admitted to the pre-professional component in the College of Health Sciences with one of the following plans: pre-health sciences, pre-biomedical sciences, pre-communication sciences and disorders, pre-health care administration, pre-kinesiology, pre-nutritional sciences, pre-occupational studies, or CHS-Undecided.

Admission policies of the College comply with the general regulations of UWM as presented earlier in this catalog and on the University's website. Upon admission to the College, the policies and procedures of the College of Health Sciences apply, even though the student may be enrolled in courses in another UWM school or college.

Enrollment in the preparatory program does not guarantee admission to the professional component or major, although nearly all eligible students over the past three years have been admitted. Admission criteria and timelines vary by major, and students are urged to consult regularly with their advisor for specific program application procedures.

Criteria for Selecting Candidates. Selection for progression into the professional component or major will be based on requirements met and other individual program factors. Each program in the College reserves the right to select its own candidates. More information and student applications are available from the Office of Student Affairs.

Certificate Completion. Students wishing to complete any of the College of Health Sciences' Baccalaureate Certificate Programs must meet with an academic advisor in the Office of Student Affairs to declare their intention to complete the Certificate. Certificate enrollment is open to all UWM students.

Academic Regulations

For information regarding action on unsatisfactory grades or about honors for scholarship, see Academic Information and Honors for Scholarship.

Students in all College of Health Sciences majors whose cumulative or semester GPA in professional studies falls below 2.5 (except Nutrition, Occupational Studies, and all Kinesiology majors, who must have a semester GPA of 2.75; semesterly GPA of 3.0 is required for BS in Communication Sciences and Disorders) are required to consult with their program head and obtain the Dean's permission to continue in the program.

Academic Advising

Academic advising and counseling for all pre-professional students is available in the Office of Student Affairs. Students who have been admitted to their major/professional program may be assigned a faculty advisor. Professional

and faculty advisors are prepared to guide academic planning, provide career and job market information, and to assist students in making appropriate career choices within the health professions. Students are strongly encouraged to schedule one advising session per semester (preferably before the registration process).

Students who believe they have a disability that might affect their academic or job performance are encouraged to meet with an advisor early in their academic planning to discuss appropriate accommodations. Graduation clearance service is available for all students planning to register for the last two semesters. Call (414) 229-2758 for an appointment.

Detailed descriptions of the College of Health Sciences programs are available in the Office of Student Affairs or on our website: uwm.edu/healthsciences.

Transfer Students. The College of Health Sciences welcomes students from other academic areas on the UWM campus, and students transferring to UWM from other institutions. Students planning to transfer into any of the College's majors should meet with an advisor in the Office of Student Affairs to plan their curriculum as early as possible. Most students find that a number of their courses transfer in meeting specific program and General Education Requirements (GER) needed for graduation. Students may meet with their advisor in person or by phone; quick questions to advisors may be handled by email as well. Please call (414) 229-2758 for an appointment or information.

Degree Requirements

1. Satisfactory completion of 128 credits (120 credits for Kinesiology, BMS-Diagnostic Imaging Degree Completion, BMS-Health Sciences Completion, Occupational Studies; 123 for Nutritional Sciences; 129 credits for Biomedical Sciences-Biomedical Science, Biomedical Sciences-Cytotechnology, Biomedical Sciences-Medical Laboratory Science; and 130 for Biomedical Sciences-Diagnostic Medical Sonography and Biomedical Sciences-Radiologic Technology), and all course and program requirements of student's curriculum.
2. Satisfaction of all University-wide General Education Requirements (GER), including meeting proficiency in both English (Parts A & B) and mathematics (Parts A & B) and completion of course distribution requirements. Second-degree candidates are exempt from these requirements.
3. A cumulative 2.5 GPA in all credits earned at UWM.
4. Completion of the last 30 credits in residence at UWM. Second-degree candidates must complete a minimum of 30 credits in residence beyond those required for previous degree.
5. A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.
6. Any deviations from the curriculum must be approved, in writing, by the student's program director or chairperson, and the Associate Dean. It is required that a student consult his/her advisor before requesting any program changes or waivers.

Special Opportunities/Requirements

Enrollment in UW System Independent Learning. Courses may be taken through the University of Wisconsin-Extension, with the permission of the Director of the Office of Student Affairs. Students may not exceed 18 credits during one semester, including correspondence courses and work in residence, without permission. Approval of a tuition waiver in an Independent Learning course may be contingent on enrollment by the add deadline in the semester in which you aim to enroll. Please connect with your advisor for further guidance.

Only elective course requirements may be met through Extension study.

Independent Study. Independent study is available in each department. Credits are awarded for academic activities pursued outside the formal classroom setting under the supervision of a faculty member. Activities may include reading, research, and special projects and must be approved, in advance, by the full-time faculty supervisor. Independent study is offered at the lower and upper levels. Students must have a cumulative GPA of 2.5 at UWM to pursue independent study. Upper-division independent study requires junior status. For more information, see the catalog course listings or contact the department chairperson.

College Level Examination Program (CLEP). Credit for specific college courses may be earned through the College

Level Examination Program (CLEP) of the College Entrance Examination Board. Students will be granted degree credit only for subject examinations, and if they score at the 50th percentile or higher on the National Sophomore norm. Credit for subject examinations may only be used to satisfy elective credits within the College of Health Sciences degree programs. A list of acceptable examinations may be found in the introductory section of this catalog under Academic Opportunities.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, or internships, students will be required to have a check of criminal conviction records prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly.

Health Insurance Documentation. Students may be required to carry health insurance during internship or fieldwork experiences. As a condition of placement in an internship program, students may also be required to have updated vaccinations (e.g., MMR, Hbv). In addition, a physical examination and TB test may be required.

Course

College of Health Sciences

100 New Student Seminar in Allied Health Professions. 1 cr U. An overview of the Allied Health Professions, the College of Health Sciences, and academic requirements. Strategies for academic success. Prereq: none.

Faculty and Staff

ADMINISTRATION

Ron Cisler, PhD

Dean

Jeri-Annette Lyons, PhD

Associate Dean

Abigail Amissah-Arthur, PhD

Assistant Dean, Office of Research

Kate Brondino, MEd

Director, Office of Student Affairs

Susan Cashin, PhD

Director, Data Analytics

Cheri Dzieken Chapman

Communications Manager

Chi (Chris) Cho, MS

Biostatistician

Mike Hauer, PhD

Assistant Dean Emeritus

Michelle Janowiak

Senior Student Services Coordinator

Debra Maglio

Senior Administrative Program Specialist, Business Office

Karen Miyoshi, MA

Administrative Program Manager II

Marion McDowell

Administrative Program Manager III Emerita

Bill Mueller, MS

Academic Advisor

Nancy Nelson, PhD

Assistant Dean, Outreach and Continuing Education

Agnes Northrup, MS

Academic Advisor

Angela Rintelman, MS

Academic Advisor/Recruiter

Torry Rufer, MS

Recruiter, Academic Advisor

Roger O. Smith, PhD, OTR, FAOTA

Director, R2D2

Susan Stalewski, MBA, MLS (ASCP)

Director, Academic Initiatives and Planning

Director, E-learning

Scott Strath, PhD

Director, Center for Aging and Translational Research

BIOMEDICAL SCIENCES

Shahla Anders, Clinical Asst. Prof., MEd

Carroll University

Anthony Azenabor, Prof., PhD

University of Benin

Cynthia Brown, Clinical Assoc. Prof., MA

Central Michigan University

Daniel Cordas, Clinical Instructor, BS

University of Wisconsin-Milwaukee

Lora deOliveira, Outreach Program Manager II, MBA, MPH

Marquette University, University of Minnesota

Bradley DePons, Laboratory Manager, MLS

University of Wisconsin-Milwaukee

Jennifer Doll, Asst. Prof., PhD

Washington University

Janis Eells, Prof., PhD

University of Iowa

Margaret Hirschfeld, Clinical Asst. Prof., BS

University of Saint Francis, IL

Fang Yao Stephen Hou, PhD, MB(ASCP)QCYM, MLS(ASCPi)

University of Wisconsin-Madison

Melissa Klug, Clinical Instructor, BS

Concordia University

Randall Lambrecht, Prof. Emeritus, PhD

Elizabeth Liedhegner, PhD

Case Western Reserve University

Jeri-Annette Lyons, Assoc. Prof., PhD

Medical College of Wisconsin

Dean Nardelli, Assoc. Prof., PhD

University of Wisconsin-Madison

Amanda Smith, Clinical Asst. Prof., MS

Marian University, WI

Susan Stalewski, Clinical Assoc. Prof., MT, ASCP, MBA

Keller Graduate School of Management

Jayne Wisniewski, Clinical Asst. Prof., MEd

Carroll University, WI

COMMUNICATION SCIENCES AND DISORDERS

Tricia Chirillo, Clinical Assoc. Prof., MS

University of Wisconsin-Madison

Caitlin Croegaert, Clinical Asst. Prof., MS

Marquette University

Marylou Gelfer, Prof., PhD

University of Florida

John Heilmann, Assoc. Prof., PhD

University of Wisconsin-Madison

Dawn Hennes, Clinical Assoc. Prof., MS

University of Wisconsin-Milwaukee

Sabine Heuer, Asst. Prof., PhD

Ohio University

Joyce M. King-McIver, Clinical Assoc. Prof., PhD, CCC-SLP

Cardinal Stritch University

Erin LeSage, Clinical Instructor, MS

University of Wisconsin-Milwaukee

Shelley Lund, Assoc. Prof., PhD

Pennsylvania State University

Barbara Pauloski, Assoc. Prof., PhD

Northwestern University

Paula Rhyner, Prof., PhD

Kent State University

Betty Ritchie, Assoc. Prof. Emerita, PhD

Stacy Ryan, Assoc. Clinical Audiologist, PhD

Pennsylvania College of Optometry

Carol Seery, Assoc. Prof., PhD

University of Washington

Sherri Sieff, Clinical Prof. Emerita, PhD

Kathleen Wangerin, Clinical Assoc. Prof., MA

Northern Michigan University

Susan Yorio, Clinical Assoc. Prof., MS

University of Nebraska

Heather Zingler, Assoc. Clinical Audiologist, AuD

University of Wisconsin-Madison

HEALTH INFORMATION AND ADMINISTRATION

Ron Cisler, Prof., PhD

University of Wisconsin-Milwaukee

Jennifer Fink, Asst. Prof., PhD

University of Wisconsin-Milwaukee

Rene Gratz, Prof. Emerita, PhD

Rohit Kate, Assoc. Prof., PhD

University of Texas at Austin

Jake Luo, Asst. Prof., PhD

Queen's University, Belfast, UK

John Lynch, Assoc. Prof. Emeritus, PhD

Mary K. Madsen, Prof. Emerita, PhD

Priya Nambisan, Assoc. Prof., PhD

Rensselaer Polytechnic Institute

Neil Oldridge, Prof. Emeritus, PhD

Kathleen Olewinski, Clinical Asst. Prof., MS, RHIA, NHA, FACHE

Cardinal Stritch University

Timothy Patrick, Assoc. Prof., PhD

University of Missouri-Columbia

Hanh Trinh, Assoc. Prof., PhD

Medical College of Virginia

Min Wu, Assoc. Prof., PhD

University of North Carolina

OCCUPATIONAL SCIENCE AND TECHNOLOGY

(Occupational Therapy, Therapeutic Recreation)

Kris Barnekow, Assoc. Prof., PhD

University of Wisconsin-Madison

Joyce Engel, Prof., PhD

University of Kansas

Arun Garg, Prof., PhD

University of Michigan

Tamicah Gelting, MS, OTR

University of Wisconsin-Milwaukee

Carol Haertlein Sells, Prof. Emerita, PhD

Mark Johnston, Prof., PhD

Claremont Graduate University

Jay Kapellusch, Assoc. Prof., PhD

University of Wisconsin-Milwaukee

Phyllis King, Prof., PhD

University of Wisconsin-Milwaukee

Theodore King, Prof. Emeritus, PhD

Randal Kohl, Clinical Instructor, MS, CTRS, CPRP, CBIS

University of Wisconsin-La Crosse

Nancy Nelson, Clinical Assoc. Prof., PhD

University of Wisconsin-Milwaukee

Heidi Plach, Clinical Assoc. Prof., MS

University of Wisconsin-Milwaukee

Michelle Kaye Silverman, MS, OTR

University of Wisconsin-Milwaukee

Bhagwant Sindhu, Assoc. Prof., PhD

University of Florida

Brooke Slavens, Assoc. Prof., PhD

Marquette University

Roger O. Smith, Prof., PhD

University of Wisconsin-Madison

Virginia Stoffel, Assoc. Prof., PhD

Cardinal Stritch University

Patricia Thomas, Clinical Assoc. Prof., MPA

Long Island University

Dennis Tomashek, Lecturer, Researcher, MS

University of Wisconsin-Milwaukee

Ying-Chih (Inga) Wang, Assoc. Prof., OTR/L, PhD

Johns Hopkins University

Dana Washburn, Clinical Asst. Prof., MS

Rush University, Chicago

KINESIOLOGY

Carlynn Alt, Clinical Assoc. Prof., PhD

Marquette University

Monna Arvinen-Barrow, Asst. Prof., PhD

University of Northampton, United Kingdom

Susan Cashin, Clinical Prof., PhD

Southern Illinois University

Stephen Cobb, Assoc. Prof., PhD

Georgia State University

Ann Dietrich, Clinical Assoc. Prof., MS

University of Wisconsin-Milwaukee

Margaret Duncan, Prof. Emerita, PhD

Jennifer Earl-Boehm, Assoc. Prof., PhD

The Pennsylvania State University

Kyle Ebersole, Assoc. Prof., PhD

University of Nebraska

Chukuka Enwemeka, Distinguished Prof. Emeritus, Dean Emeritus, PhD

Christy Greenleaf, Prof., PhD

University of North Carolina-Greensboro

William Gregory, Prof. Emeritus, PhD

Barbara Hart, Assoc. Prof. Emerita, PhD

Cynthia Hasbrook, Prof. Emerita, PhD

Wendy Huddleston, Assoc. Prof., PhD, PT, OCS

Medical College of Wisconsin

Kevin Keenan, Assoc. Prof., PhD

University of Colorado

Lori Klos, Assoc. Prof., PhD

Cornell University

Susan Kundrat, Clinical Asst. Prof., MS

Iowa State University

Renee Mazurek, Clinical Asst. Prof., PT, DPT

Arizona School of Health Sciences, A.T. Still University

Barbara Meyer, Prof., PhD

Michigan State University

Nora Miller, Assoc. Researcher, MS

University of Wisconsin-Milwaukee

Victoria Moerchen, Assoc. Prof., PhD, PT

University of Wisconsin-Madison

John Ochsenwald, Clinical Asst. Prof., MS

University of Illinois, Champaign-Urbana

Kristian O'Connor, Assoc. Prof., PhD

University of Massachusetts

Tracy Oles, Clinical Assoc. Prof., MA

University of Illinois

Renee Reckelberg, Athletic Trainer I

Eastern Michigan University

Michelle Rimer, Clinical Asst. Prof., MS, MPH, RD

University of Tennessee

Erika Sander, Prof. Emerita, PhD

Ann Snyder, Prof. Emerita, PhD

Scott Strath, Prof., PhD

University of Tennessee

Ann Swartz, Prof., PhD

University of Tennessee

Carrie Truebenbach, Clinical Asst. Prof., MS

University of Wisconsin-Milwaukee

Jinsung Wang, Assoc. Prof., PhD

Arizona State University

Kathryn Zalewski, Assoc. Prof., PhD, PT

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College of Health Sciences

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ENGINEERING AND APPLIED SCIENCE

Office of Student Services
Engineering and Mathematical Sciences Building, Room E386
(414) 229-4667
ceas-adv@uwm.edu

Degree Programs

Bachelor of Science in Engineering in Biomedical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, Materials Engineering, and Mechanical Engineering

Bachelor of Science in Computer Science

Master of Science in Computer Science

Bachelor of Science in Applied Mathematics and Computer Science (offered in collaboration with the College of Letters and Science)

Bachelor of Science/Master of Science Integrated Program

Master of Science in Engineering in Civil Engineering, Electrical and Computer Engineering, Energy Engineering, Engineering Mechanics, Industrial and Management Engineering, Manufacturing Engineering, Materials Engineering, and Mechanical Engineering

Doctor of Philosophy in Engineering in Civil Engineering, Computer Science, Electrical Engineering, Industrial Engineering, Materials Engineering, and Mechanical Engineering

PhD in Biomedical and Health Informatics (offered in collaboration with the Medical College of Wisconsin and UWM's College of Health Sciences, College of Nursing, School of Information Studies, and Lubar School of Business)

Mission

To educate students to become creative problem solvers, conduct leading-edge research with global impacts, and act as a catalyst for improved economic development and quality of life in Wisconsin.

Vision

To become a globally prominent engineering education and research institution.

Our location in the major industrial center of the state of Wisconsin offers engineering and computer science students several advantages. Professional engineers and computer scientists from the industrial community share their expertise with the College in the classroom, research laboratory, and on the College's advisory committees. Our very successful co-op and internship programs give students work experience in their field of study before graduation. Many of the projects that students work on in the classroom are real projects brought to us by local companies. In short, Milwaukee-area companies offer our students a real-world laboratory to gain valuable insights and skills in their major field.

Accreditation

Accreditation. The College is accredited by the North Central Association of Colleges and Secondary Schools. In addition, the programs in civil engineering, electrical engineering, industrial engineering, materials engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET. The computer science program is accredited by the Computing Accreditation Commission of ABET. ABET, Inc., 111 Market Place, Suite

1050, Baltimore, MD 21202-4012, (410) 347-7700.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records prior to acceptance of a student by the placement site. Students are responsible for obtaining the necessary information about these requirements and for planning their studies accordingly. Please contact the appropriate department or program office for further information.

Admission

NEW FRESHMEN

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to the First-Year Program. Admission directly to the major is selective.

TRANSFER STUDENTS

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The college also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or the Transfer Transition Program based on the number of transfer credits and GPA.

ADVANCEMENT TO MAJOR REQUIREMENTS

Students admitted to the First-Year Program or Transfer Transition Program may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.

Courses required for advancement to major may be repeated only once. No more than two courses required for advancement to major (Pre-calculus math, Calculus I, Chem 100, English 101 and 102) may be repeated.

First-Year students have a maximum of three semesters to complete the advancement to major requirements. Part-time students may be granted an extension by their academic advisor.

Transfer Transition students have a maximum of two semesters to complete the advancement to major requirements. Part-time students may be granted an extension by their academic advisor.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

PLACEMENT TESTING

Most new freshmen are required to take placement exams in English and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry. Students with previous college-level credits in chemistry, English, and math may not be required to take placement tests. Additional prerequisite coursework may be required as a result of these placement tests. Credit for prerequisite academic work may not count toward the degree program. Entering students are urged to take their placement exams when scheduled. All placement exams must be completed before beginning coursework in the subject area. Students who place into Math 105 or lower will be placed into the CEAS Bridge Program and may be asked to participate in a summer program.

Academic Advising

The College's Office of Student Services, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

Diversity Programs Office

The College of Engineering and Applied Science has developed a strategic plan that promotes a collaborative culture through communication and acceptance of students, faculty, and staff. The Office of Diversity is responsible for meeting this challenge through participating in the UW System and UWM's multicultural, diversity, and community endeavors. The office also will review methods of increasing enrollment and of improving retention and graduation rates of all students, especially for students of color. The office will work closely with community initiatives, the Milwaukee Public Schools, and the Pre-College programs to attract and retain more minority students in engineering and computer science.

Student Organizations

In addition to the wide variety of activities that are available for all UWM students, CEAS students have the opportunity to participate in many organizations relating to their professional interests. Involvement in these organizations is recognized as a valuable component of their professional education.

ORGANIZATIONS

AAO - Aeronautics and Aerospace Organization

AFS - American Foundrymen's Society

ASCE - American Society of Civil Engineers

ASM/TMS - Materials Engineering Society

ASME - American Society of Mechanical Engineers

IEEE - Institute of Electrical and Electronic Engineers

IEEE-CS - Institute of Electrical and Electronic Engineers Computer Society

IIE - Institute of Industrial Engineers

ITE - Institute of Transportation Engineers

NSBE - National Society of Black Engineers

RC - Rocket Club

ROV - Remotely Operated Vehicle Team

SAE - Society of Automotive Engineers

SHPE - Society of Hispanic Professional Engineers

SME - Society of Manufacturing Engineers

SWE - Society of Women Engineers

PROFESSIONAL FRATERNITY

Triangle

HONOR SOCIETIES

Pi Tau Sigma

Tau Beta Pi

Co-op and Internship Program

In today's competitive job market, it takes more than a college degree to find employment upon graduation. The Career Services Office in the College provides the link between your education and the real world. This office is dedicated to helping all CEAS students secure engineering or computer science-related work experience before graduation, because related work experience in combination with good academics are the criteria most employers use to select new hires.

The College offers students two ways to gain that experience: internships and co-ops. The principal goals of the programs are to provide career orientation to students and enhance their professional development. All internships and co-ops are paid at a rate commensurate with educational background and experience. For more information, contact the Career Services Office at (414) 229-6960 or ceascareers@uwm.edu.

CEAS Minors and Certificates

The College offers minors in computer science, electrical, industrial, materials, mechanical, and structural engineering and a certificate in web development, open to UWM undergraduate students. All of the CEAS minors and the certificate can be completed as part of the first bachelor's degree at UWM or after completing a degree at UWM or another institution. For minor requirements, please see appropriate department.

Joint Programs with Other Campuses

Pre-engineering. Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

Dual Degree Programs. Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll

University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, and UW-Whitewater. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges

Milwaukee Area Technical College. An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College. An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

Academic Regulations

For information on University and College academic regulations such as course loads, grading, actions on unsatisfactory grades, overloads, etc., see Academic Information. A number of special College regulations are given below.

Degree Requirements. Students must maintain an average GPA of at least 2.0 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence (a) during the last 30 credits, (b) during 45 of the last 60 credits, or (c) during any 90 credits of a student's undergraduate career. At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Dual Majors. Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

Concurrent Registration at Other Institutions. CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

Student Academic Appeals. Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are given on the following pages. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current with the state of the art, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages linked to below are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

[Biomedical Engineering](#)

[Computer Engineering](#)

[Computer Science](#)

[Civil Engineering](#)

[Electrical Engineering](#)

[Industrial and Manufacturing Engineering](#)

[Materials Engineering](#)

[Mechanical Engineering](#)

Courses

[Biomedical Engineering \(BME\)](#)

[Civil Engineering and Mechanics \(CIV ENG\)](#)

[Computer Science \(COMPSCI\)](#)

[Electrical Engineering \(ELECENG\)](#)

[Engineering & Applied Science](#)

[Industrial & Systems Engineering](#)

[Materials \(MATLENG\)](#)

[Mechanical Engineering \(MECHENG\)](#)

Faculty and Staff

Administration

Brett Peters

Dean

Ethan Munson

Associate Dean, Academic and Administrative Affairs

Adel Nasiri

Associate Dean for Research

Student Services

Todd R. Johnson

Director, Student Services

Julianne Pickering
Co-op Program Coordinator

Tina Current
Senior Academic Advisor

Sharon Kaempfer
Senior Academic Advisor

Jennifer Klumpp
Senior Academic Advisor

Ashlie Schaffner
Academic Advisor

Graduate Programs and Research

Betty Warras
Graduate Program Specialist

Civil and Environmental Engineering

Edward A. Beimborn, Prof. Emeritus, PhD, PE

Hector R. Bravo, Prof., PhD
University of Iowa

Erik R. Christensen, Prof. Emeritus, PhD, PE

Rani El-Hajjar, Assoc. Prof., PhD
University of Nebraska

Al Ghorbanpoor, Prof., PhD, PE
University of Maryland

Sam Helwany, Prof., PhD, PE
University of Boulder, Colorado

Alan J. Horowitz, Prof. Emeritus, PhD, PE

Kwang K. Lee, Prof. Emeritus, PhD, PE

Jin Li, Assoc. Prof., PhD
University of Cincinnati

Qian Liao, Assoc. Prof., PhD
Cornell University

Yu Liu, Assoc. Prof., PhD
University of Maryland

Tarun R. Naik, Prof. Emeritus, PhD, PE

Adeeb Rahman, Assoc. Prof., PhD
University of Wisconsin-Madison

Xia Qin, Assoc. Prof., PhD

University of Connecticut

Konstantin Sobolev, Prof., PhD

Research Institute of Concrete and Reinforced Concrete, Russia

Habib Tabatabai, Assoc. Prof., PhD, PE

University of Florida, Gainesville

Hani H. Titi, Assoc. Prof., PhD, PE

Louisiana State University

Yin Wang, Asst. Prof., PhD

Washington University in St. Louis

Jian Zhao, Assoc. Prof., PhD

University of Minnesota, Minneapolis

Electrical Engineering & Computer Science

Brian Armstrong, Prof., PhD

Stanford University

John T. Boyland, Prof., PhD

University of California, Berkeley

Christine T. Cheng, Assoc. Prof., PhD

Johns Hopkins University

Robert Cuzner, Asst. Prof., PhD

University of Wisconsin-Madison

George I. Davida, Prof. Emeritus, PhD

Adrian Dumitrescu, Prof., PhD

Rutgers, The State University of New Jersey

Mukul Goyal, Assoc. Prof., PhD

Ohio State University

George Hanson, Prof., PhD, Chair

Michigan State University

S. Hossein Hosseini, Prof., PhD, Computer Science

University of Iowa

Yi Hu, Assoc. Prof., PhD

University of Texas at Dallas

Charles E. Kahn, Jr., Adjunct Prof., MD

University of Illinois at Chicago

Nikolai A. Kouklin, Assoc. Prof., PhD

University of Nebraska-Lincoln

Robert J. Krueger, Prof. Emeritus, PhD

Chiu T. Law, Assoc. Prof., PhD

Purdue University

Leonard P. Levine, Prof. Emeritus, PhD

Amol D. Mali, Assoc. Prof., PhD

Arizona State University

David McClanahan, Faculty Associate, MSEE

University of Wisconsin-Milwaukee

Susan McRoy, Prof., PhD

University of Toronto

Devendra K. Misra, Prof., PhD

Michigan State University

Ethan V. Munson, Prof., PhD

University of California, Berkeley

Adel Nasiri, Prof., PhD

Illinois Institute of Technology

Ramin Pashaie, Assoc. Prof., PhD

University of Pennsylvania

Mahsa Ranji, Assoc. Prof., PhD

University of Pennsylvania

Ali Reza, Prof. Emeritus, PhD

Jayson Rock, Sr. Lect., MS

University of Wisconsin-Milwaukee

Robert Sorenson, Sr. Lect., MS

Marquette University

George R. Steber, Assoc. Prof. Emeritus, PhD

Ichiro Suzuki, Prof., PhD

Osaka University, Japan

Lingfeng Wang, Assoc. Prof., PhD

Texas A&M University

Weizhong Wang, Assoc. Prof., PhD

University of Maryland, College Park

K. Vairavan, Prof. Emeritus, PhD

Guangwu Xu, Assoc. Prof., PhD

University at Buffalo, SUNY

David C. Yu, Prof., PhD

University of Oklahoma

Zeyun Yu, Assoc. Prof., PhD

The Ohio State University

Jun Zhang, Prof., PhD

Rensselaer Polytechnic Institute

Tian Zhao, Assoc. Prof., PhD

Purdue University

Industrial Engineering

Daniel A. Beller, Sr. Lect., MS

University of Wisconsin-Milwaukee

Naira Campbell-Kyureghyan, Prof., PhD

The Ohio State University

Tsong-How Chang, Assoc. Prof. Emeritus, PhD

Jaejin Jang, Assoc. Prof., PhD

Purdue University

Edward W. Knoblock, Assoc. Prof. Emeritus, MS

Wilkistar Otieno, Assoc. Prof., PhD

University of South Florida

Matthew Petering, Assoc. Prof., PhD

University of Michigan

Umesh K. Saxena, Prof. Emeritus, PhD, PE

Hamid K. Seifoddini, Assoc. Prof., PhD

Oklahoma State University

Materials Engineering

Nidal Abu-Zahra, Assoc. Prof., PhD, Chair

Cleveland State University

George S. Baker, Prof. Emeritus, PhD

Benjamin Church, Assoc. Prof., PhD

Georgia Institute of Technology

Changsoo Kim, Assoc. Prof., PhD

Carnegie Mellon University

Hugo F. Lopez, Prof., PhD

Ohio State University

Joachim P. Neumann, Prof. Emeritus, PhD

Junjie Niu, Asst. Prof., PhD

Zhejiang University, China

Pradeep K. Rohatgi, Wisconsin Distinguished Prof., ScD

Massachusetts Institute of Technology

Dev Venugopalan, Assoc. Prof., PhD, Vice Provost

McMasters University

Mechanical Engineering

Ryoichi S. Amano, Prof., PhD

University of California, Davis

Illya Avdeev, Assoc. Prof., PhD

University of Pittsburgh

Robert T. Balmer, Prof. Emeritus, ScD

S. H. Chan, Prof. Emeritus, PhD

Woo-Jin Chang, Asst. Prof., PhD

Inha University

Junhong Chen, UWM Distinguished Prof., PhD

University of Minnesota - Twin Cities

Anoop K. Dhingra, Assoc. Prof., PhD, Chair

Purdue University

Andrew Dressel, Lecturer, PhD

University of Wisconsin-Milwaukee

Roshan D'Souza, Assoc. Prof., PhD

University of California, Berkeley

Kenneth F. Neusen, Prof. Emeritus, PhD, PE

Michael Nosonosky, Assoc. Prof., PhD

Northeastern University

Ronald A. Perez, Assoc. Prof., PhD, PE

Purdue University

Krishna Pillai, Assoc. Prof., PhD

University of Delaware

Deyang Qu, Prof., Johnson Controls Endowed Chair, PhD

University of Ottawa, Canada

Mohammad H. Rahman, Asst. Prof., PhD

University of Quebec, Canada

John R. Reisel, Prof., PhD, PE

Purdue University

Kevin J. Renken, Assoc. Prof., PhD
University of Illinois at Chicago

Nathan Salowitz, Asst. Prof., PhD
Stanford University

Yongjin Sung, Asst. Prof., PhD
Massachusetts Institute of Technology

Keh C. Tsao, Prof. Emeritus, PhD

Emmanuel Wornyo, Asst. Prof., PhD
Carnegie Mellon University

Mohamed Yahiaoui, Lecturer
Massachusetts Institute of Technology

Chris Yingchun Yuan, Prof., PhD
University of California, Berkeley

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[[Administration](#) | [UWM - Endless Possibilities](#) | [Academic Opportunities](#) | [Campus Resources](#)]

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UWM Undergraduate Catalog 2017-2018

College of Letters and Science

Office of L&S Student Academic Services

Holton Hall 142

(414) 229-4654

lsadvising@uwm.edu

uwm.edu/letters-science

Degree Programs

Bachelor of Arts: Actuarial Science; Africology; American Indian Studies (CIM); Anthropology; Art History and Criticism; Biochemistry; Biological Sciences; Chemistry; Chinese (CIM); Classics; Committee Interdisciplinary; Communication; Comparative Literature; Conservation and Environmental Science; Economics; English; Film Studies; French; Geography; Geosciences; German; Global Studies; History; International Studies; Italian; Japanese (CIM); Jewish Studies; Journalism, Advertising, and Media Studies; Latin American, Caribbean, and U.S. Latin@ Studies; Linguistics; Mathematics; Microbiology; Philosophy; Physics; Political Science; Psychology; Religious Studies; Russian; Sociology; Spanish; Urban Studies; Women's and Gender Studies

Bachelor of Science: Applied Mathematics and Computer Science; Atmospheric Sciences; Biochemistry; Biological Sciences; Chemistry; Committee Interdisciplinary; Conservation and Environmental Science; Course in Chemistry; Geography; Geosciences (Geology-Geophysics Option only); Mathematics; Medical Science; Microbiology; Physics; Psychology

Master of Arts: Art History; Communication; Economics; English; Geography; History; Language, Literature, and Translation; Linguistics; Media Studies; Philosophy; Political Science; Sociology; Women's and Gender Studies

Master of Science: Anthropology; Biological Sciences; Chemistry; Geography; Geosciences; Mathematics; Non-profit Management and Leadership; Physics; Psychology; Urban Studies

Master of Human Resources and Labor Relations

Master of Liberal Studies

Master of Public Administration

Doctor of Philosophy: Africology; Anthropology; Biological Sciences; Chemistry; Communication; Economics; English; Geography; Geosciences; History; Linguistics; Mathematics; Physics; Political Science; Psychology; Sociology; Urban Studies

Administration

David Clark

Acting Dean

Kyle Swanson

Interim Associate Dean, Natural Sciences

James Moyer

Associate Dean, Social Sciences

Jasmine Alinder

Acting Associate Dean, Humanities and Communication

Deanna Ding

Assistant Dean, College Relations, Marketing, Communication, PR

Mike Darnell

Assistant Dean, Curriculum, Governance, and Assessment

Patricia Kissinger

Assistant Dean, Unit Business Representative

Cindy Piercy

Interim Assistant Dean, Student Academic Services

Craig Wesley

Assistant Dean, Administrative Affairs and Personnel

The College of Letters and Science is the largest academic unit of the University of Wisconsin-Milwaukee. Nearly every student at UWM completes a significant amount of coursework in the College prior to graduation.

Study of the liberal arts and sciences in the College encourages students to develop critical and open minds and provides them with an intellectual foundation in the basic areas of knowledge. Students acquire a broad range of essential skills including the ability to communicate effectively, approach problems analytically, and adapt to new and changing situations.

Admission

Students who meet the standard University admission requirements are admissible to the College of Letters and Science. The same criteria for acceptance are applied to in-state and out-of-state students. See Admission section.

Advising

The College of Letters and Science provides academic advising for all students pursuing a degree in the College, undecided majors, and any students seeking information concerning majors, minors, and courses in the College. Letters and Science offers specialized advising services to any UWM student interested in the areas of pre-law, pre-medicine, pre-dentistry, pre-chiropractic medicine, pre-optometry, pre-podiatry, pre-physician assistant, pre-pharmacy, and pre-veterinary medicine. Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 9:00 a.m. to 4:30 p.m. Evening advising is available during registration periods and at other times by appointment. The advising office is located on the first floor of Holton Hall, (414) 229-4654.

When students declare a major, they are assigned an additional advisor within the major department. Prior to the assignment of a specific major advisor within the discipline, students may obtain major advising from the department's undergraduate advising coordinator. All students should consult their academic advisors in Holton Hall and in their department prior to each registration period.

Declaration of Pre-major

Students who are not yet eligible to declare a major formally may declare a pre-major in an academic discipline of interest to them. The declaration of a pre-major is encouraged as soon as a student finds s/he is interested in a particular area. This action permits the department to identify students to whom to send information concerning programs, awards, opportunities (e.g., internships), and other matters relating to the area of study. Students may declare a pre-major by completing a brief form available from the L&S Advising Office (HLT 142) or from the department office.

Course of Study – Bachelor of Arts Degree

(For all new freshmen beginning fall 2008; students who entered prior to that date may follow requirements in the 2006-07 Undergraduate Catalog.)

In addition to the requirements listed below, L&S students must complete the University-wide GERs (www.uwm.edu/academics/ger.cfm).

I. ENGLISH WRITING REQUIREMENT

Students must satisfy the English Writing Requirement by completing English 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

II. MATHEMATICS AND FORMAL REASONING REQUIREMENT

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a math placement code of at least 30 or earn at least 3 credits with a grade of C or higher in Math 102, 103, 105, 108, 175, or an equivalent course; and
2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in mathematics, Philos 211 (Elementary Logic), or Letters and Science statistic courses. For a list of approved statistics courses, see the College of Letters and Science website: uwm.edu/letters-science/advising/degree-requirements/major-approved-statistics-courses.

III. LANGUAGE REQUIREMENT

Students may satisfy the language requirement in one of two ways:

1. Successful completion of the fourth semester of college work or equivalent in one language other than English; or
2. Successful completion of the third semester of college work or equivalent in one language other than English PLUS the second semester of college work or equivalent in another language other than English.

Contact your academic advisor or the L&S Advising Office for an explanation of equivalent work.

IV. INTERNATIONAL REQUIREMENT

Students must satisfy the International Requirement by:

1. Completing three courses (at least 9 credits) in a single foreign language (not including literature-in-translation) at the 200 level and above; or
2. Completing three non-language courses (at least 9 credits) with international content chosen from at least two curricular areas; or
3. Completing 9 credits in combination from options 1 and 2. For a list of approved courses, see the College of Letters and Science website: uwm.edu/letters-science/advising/degree-requirements/international-requirement.

V. BREADTH REQUIREMENT

L&S Breadth Areas

Credits

Humanities	12
Social Sciences	12
Natural Sciences (must include at least one laboratory or field course)	12

No more than 6 credits from a single curricular area may be used to satisfy any single area of the Breadth Requirement. For a list of approved courses, see the College of Letters and Science website: uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/LS-Breadth-Courses.pdf.

VI. THE MAJOR

After completing 15 credits and before 75 credits have been earned, students must declare a major by contacting the appropriate academic department or program. Failure to declare the major before 75 credits have been earned may result in a delay of graduation. Some departments or programs specify course and/or GPA requirements that students must satisfy prior to declaring the major.

The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement. Within their majors, students must complete a research experience approved by the L&S Faculty.

To complete a major, students must satisfy all the requirements of the major as stated in the department or program entry in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

MAJOR OPTIONS

Students may declare a departmental major, an interdepartmental major, or a committee interdisciplinary major.

Departmental Major. A departmental major ordinarily offers one of three orientations: 1) general concentration in the discipline, 2) preparation for graduate work in the discipline, or 3) pre-professional training. Students should select one of these orientations in consultation with their major advisor.

Interdepartmental Major. For the requirements of the eight interdepartmental majors offered, see the Interdepartmental Majors section in this catalog.

Committee Interdisciplinary Major. The Committee Interdisciplinary Major is designed to meet the individual needs of the students. Upon request by a student, a committee of three or more individuals from two or more academic units may develop a major based on that student's abilities and needs. All committee majors must be approved by the major academic units involved.

The committee interdisciplinary major requires a minimum of 30 credits, of which at least 15 must be in upper-division (numbered 300 or above) Letters and Science courses taken in residence at UWM. The CIM must include coursework in at least two L&S academic units. Most units outside the College also may be selected as part of the major. However, at least 18 credits in the major must be earned in Letters and Science courses. Non-L&S courses selected as part of a CIM will not count toward the 90 L&S credits required for the degree, but they will satisfy part of the 30 elective credits available to L&S students.

To propose a committee interdisciplinary major, students should obtain a "Declaration of Committee Interdisciplinary Major" form from the Office of Student Academic Services. They must prepare a written statement defining the goals of

their proposed major, and then identify three individuals from two or more academic units who are willing to function as the major oversight committee. One individual may be an academic staff member, but at least two must be faculty members. Academic staff members of CIM committees must be approved by the CIM committee chair and the Assistant Dean for L&S Student Academic Services. At least two committee members must be from L&S. A member of the L&S faculty serves as committee chair and major advisor. The student and committee members together identify the courses that will be required for the major. The declaration form is completed and signed by the committee chair and then sent for approval to the chair/director of every academic unit in which courses in the major will be taken.

Students present the completed declaration form to the Office of Student Academic Services at any time between the 15th and 75th credit. An academic advisor, in consultation with the assistant dean for Student Academic Services, will either approve or deny the proposal. Should the proposal be denied, the student and the committee chair will receive a written explanation of the denial. Students may appeal a denial to the L&S Academic Policies and Curriculum Committee. The proposal also may be reworked and resubmitted.

Second Major. With the approval of the Assistant Dean for Student Academic Services, students may elect a second major.

VII. THE MINOR

The completion of a minor is optional. The College requires that students attain at least a 2.5 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work. Individual departments may require higher GPAs for graduation. Students must complete in residence at least 9 credits of upper-division (numbered 300 or above) courses in the minor.

VIII. CREDIT REQUIREMENTS AND LIMITATIONS

To complete the BA, 120 degree credits are required, including at least 36 credits in upper-division (numbered 300 or above) courses offered by the College of Letters and Science. At least 90 credits must be completed in L&S courses, allowing students to take as electives up to 30 credits in courses offered by other UWM academic units. There is no limit to the number of credits that may be taken in one department. No more than 6 credits in any single course outside the College may be counted toward the BA (or BS) degree. A maximum of 12 credits in military science courses may be counted toward the degree as non-L&S electives. No more than 6 credits of field experience taken outside the College and no more than 6 credits in sport and recreation courses may be counted toward the degree. No “life experience” credits may be counted toward the degree.

Course of Study – Bachelor of Science Degree

(For all new freshmen beginning fall 2008; students who entered prior to that date may follow requirements in the 2006-07 Undergraduate Catalog.)

In addition to the requirements listed below, L&S students must complete the University-wide GERS (www.uwm.edu/academics/ger.cfm).

Students seeking the BS degree are urged to begin their math and science studies in the earliest possible semester to avoid delays in graduation.

I. ENGLISH WRITING REQUIREMENT

See [Bachelor of Arts Degree](#).

II. MATHEMATICS AND FORMAL REASONING REQUIREMENT

All candidates for the Bachelor of Science degree must complete Math 211, 221, 226, 227, 228, or 231 and one additional course at the 200 level or above chosen from courses in mathematics, Philos 212 (Modern Deductive Logic), or Letters and Science statistics courses. For a list of approved statistics courses, see the College of Letters and Science

website: uwm.edu/letters-science/advising/degree-requirements/major-approved-statistics-courses.

III. LANGUAGE REQUIREMENT

Two courses (minimum 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required. This requirement is satisfied by two years of a single language (including American Sign Language) other than English taken in high school.

IV. INTERNATIONAL REQUIREMENT

See [Bachelor of Arts Degree](#).

V. BREADTH REQUIREMENT

L&S Breadth Areas

Humanities	12
Social Sciences	12
Natural Sciences (must include laboratory courses from three different curricular areas)	12

No more than 6 credits from a single curricular area may be used to satisfy any single area of the Breadth Requirement. For a list of approved courses, see the College of Letters and Science website: uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/LS-Breadth-Courses.pdf.

VI. THE MAJOR

Requirements are the same as for the Bachelor of Arts degree, with the exception that students must declare a science major. The science major may be one of three kinds: a departmental major from among atmospheric sciences, biological sciences, biochemistry, chemistry, geography, geosciences (geology-geophysics option only), mathematical sciences, microbiology, physics, and psychology; the conservation and environmental sciences major; or a committee interdisciplinary major. (See Bachelor of Arts Degree for the last option.) The courses for the committee interdisciplinary major must be selected from the departments of Biological Sciences, Chemistry, Geography (physical), Geosciences, Mathematical Sciences, Physics, Psychology (natural sciences), or from other courses approved to meet the natural science requirement (uwm.edu/letters-science/advising/degree-requirements/ls-degree-requirements-fall-2013-current/fall-2013-bachelor-of-arts-ba-degree-requirements).

Second Major. With the approval of the assistant dean for Student Academic Services, students may elect a second major. The second major need not be selected from the natural sciences.

VII. THE MINOR

The completion of a minor is optional. Requirements are the same as for the Bachelor of Arts degree. The minor need not be selected from the natural sciences.

VIII. CREDIT REQUIREMENTS

To complete the BS, 120 degree credits are required, including at least 36 credits in upper-division courses (numbered 300 or above) offered by the College of Letters and Science. For the Bachelor of Science degree, at least 30 of these 36 credits must be from natural science curricular areas or [other courses approved as advanced natural sciences](#).

See [Bachelor of Arts Degree](#) for additional credit requirements and limitations.

Eligibility for Prior Degree Requirements. Students enrolled at UWM prior to September 2008 and transfer students who began their studies prior to September 2008 may meet the requirements listed above or may satisfy the

requirements for the Bachelor of Arts/Science degree programs outlined in any *Undergraduate Bulletin* or *Catalog* between 1998-99 and 2006-07.

Course of Study – Second Baccalaureate Degree

Candidates for a second baccalaureate degree must satisfy all current requirements for an undergraduate degree in the College of Letters and Science. Transfer work may be used for these requirements. In addition, students must complete at least 30 credits in residence at UWM after the date on which the first degree is awarded. If more than 30 credits are needed to complete all degree requirements, the last 30 credits must be completed in residence. Of these 30 credits, at least 24 must be in courses in the College of Letters and Science. At least 20 of these credits must be in upper-division courses. Students must satisfy current requirements for a major. Students who have been awarded a Bachelor of Arts by the College of Letters and Science are not eligible for a second BA degree from L&S. Those who have earned a Bachelor of Science in L&S are not eligible for a second L&S BS degree.

Course of Study – Additional Majors Program

All College of Letters and Science departments participate in the University's Additional Majors Program. This program serves students who have completed a degree, either at UWM or elsewhere, as well as those currently enrolled in another school/college at UWM who wish to complete an additional major in L&S. Students who opt for an additional major must complete only the major requirements; they are not required to complete an entire second degree. A regular departmental major, an interdepartmental major, or a committee interdisciplinary major may be selected.

All credit and grade point average requirements currently in effect for the selected major are enforced. This means that students must complete a minimum of 15 advanced credits (numbered 300 or above) in residence at UWM, and they must complete the version of the major in effect at the time of declaration. Students participating in the program must provide transcripts of all prior non-UWM work. Those with a prior degree are admitted with senior standing. Completion of the major is certified by the major department and recorded on an official UWM transcript.

Residence Requirements

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence (a) during the last 30 credits, (b) during 45 of the last 60 credits, or (c) during any 90 credits of a student's undergraduate career.

Students who transfer to UWM from a UW two-year college, Milwaukee Area Technical College, Madison Area Technical College, or Nicolet Technical College may transfer up to 72 credits taken at a two-year school.

Students who transfer to UWM from a junior college outside Wisconsin must earn the *final* 48 credits here or in another bachelor's-degree-granting college or university in accord with the requirements stated above.

At least 15 credits of advanced work in the major, and 9 credits of advanced work in the minor (if applicable), must be completed in residence at UWM. Departures from this rule due to extraordinary circumstances require a recommendation, including evidence of equivalent work completed elsewhere, from the major or minor department to the Office of Student Academic Services.

Credits earned through credit-by-examination, retroactive credit in foreign languages, and the College Level Examination Program do not count toward residency, but they do not interrupt residency.

Grade Point Average

To be eligible for a bachelor's degree, students must attain a cumulative GPA of 2.0 on all credits that count toward a degree in the College, including any transfer work. In addition, students must earn a cumulative 2.0 GPA on all UWM credits that count toward the degree.

Semester Course Load

Students in Letters and Science may carry a maximum of 18 credits in a regular semester. In extraordinary circumstances, an overload may be granted to a student with a high GPA who has no outstanding incompletes. Students should contact the College's advising office for instructions on requesting an overload. Additional fees are assessed for credits beyond 18.

Academic Regulations

For information on actions on unsatisfactory grades and honors for scholarship, see Academic Information.

Special Opportunities

Attainment Examinations

Students may take an attainment examination in some departments to demonstrate mastery of the subject matter of courses that are prerequisite for advanced courses or are required for graduation. Although passing such an examination does not grant credits toward graduation, it enables students to move more quickly to advanced work in a subject area.

Correspondence and Extension Study

With the permission of the assistant dean for Student Academic Services, students may take correspondence courses through the University of Wisconsin-Extension for credit while enrolled in the College of Letters and Science. The total number of credits per semester may not exceed 18, including correspondence courses and work in residence.

Credit for Demonstrated Equivalent Preparation

In special cases, a department may grant credits toward graduation for knowledge or abilities attained through previous work, i.e., coursework or other systematic study as determined by the department. Although the College of Letters and Science places no limit on the number of credits that may be obtained in this way, departments, if they choose to do so, may set limits on the number of credits they will grant.

Departments other than foreign language departments may grant a student credits toward graduation for a University course in which s/he requests and passes a special University examination. An examination for credit must be based on work equivalent to a course given at UWM, and the credits granted will be for the corresponding course. Evidence of work justifying an examination for credit must be presented to the department. Permission for such examinations must be secured in advance from the Dean of the College upon recommendation of the department chair. Examinations for credit will be taken at a time specified by the department. In general, a student may not take such an examination if any previous enrollment in the target course appears on the student's record, whether or not the course was completed.

Foreign language departments may allow students to receive credit for some prerequisite language courses at the 100 and 200 level upon completion of specified higher-level "entry" courses. A student who skips a course or courses in the 100-200 language sequence after having taken a lower-level course may earn credits for demonstrated equivalent preparation ("retro" credits) in the skipped course(s) if s/he earns a grade of B or better in the higher-level course. As a general policy, a grade of B or above is required, but individual departments may set a higher grade requirement. Only the grade in the completed course is computed into the grade point average. A student who earns below the required grade in this entry course becomes, thereafter, ineligible for "retro" credits in the language involved.

The number of credits that can be earned in this way is limited to a maximum of 16 in any one language. Credits granted for prerequisite courses will be equal to the credit value of the prerequisite course(s) or a maximum of 4 credits for each prerequisite course, whichever is the smaller number. Students may not be granted "retro" credits for courses at the 300 level and above, except where the fourth-semester course in a regular language sequence is numbered 300 or above.

In the foreign languages, credit for prerequisite courses ("retro credits") also may be granted to transfer students under the following circumstances:

- Retro credits granted by another institution will be accepted at UWM if they were granted based on a course that generates retro credits at UWM and if the student has earned the grade that is required at UWM.
- A transfer student coming from an institution that does not grant retro credits but who took a foreign language course that transfers as a qualifying course at UWM may apply for retro credits if the student satisfies UWM standards for receiving retro credits.

In both cases, the number of retro credits awarded will be limited to the number of credits students at UWM are granted for each prerequisite course.

Students who want more information should contact the chair of the appropriate language department.

Evening Degree Opportunities

The College of Letters and Science seeks to accommodate the needs and interests of students who plan to complete degree programs during the evening hours. At present, six degree programs offered by departments in the College can be completed through evening coursework. With the approval of the major department and the assistant dean for Student Academic Services, modifications often can be made in degree programs that cannot be completed in this manner. Questions concerning the availability of courses and specific degree programs during late hours should be directed either to Andrew Cuneo, (414) 229-2787, or to the appropriate department.

First-Year Seminar Program

The First-Year Seminar Program affords freshmen the opportunity to participate in a small learning community during their first year at UWM, helping to ease the transition to college. The Program offers a range of seminars to students of all ability levels.

Limited to just 20 first-year students, each first-year seminar provides a unique opportunity for students to get to know their professors and fellow students. In this small seminar setting, the professor serves as a mentor, coaching and helping students to achieve success in their first year. First-year seminars emphasize the development of collaboration, teamwork, written and oral communication skills, creative and analytical thinking, and university literacy.

Seminars are offered in a wide variety of interest areas. Course titles in recent semesters have included *What Is Randomness*; *Urban Legends of the Supernatural*; *Aspects of Hell*; and *What's So Funny?* Most first-year seminars are offered for three credits and can be applied to degree requirements. See the *Schedule of Classes* for a list of first-year seminars taught in the current semester.

For more information, visit the First-Year Seminar website at uwm.edu/first-year-seminars or call Associate Dean Dave Clark at (414) 375-0457.

Independent Study

Certain departments allow qualified students to register for independent study. Credits are awarded for academic activities pursued outside the formal classroom setting under the supervision of a member of the Letters and Science faculty or instructional academic staff. The activities may include reading, research, or special projects. In most departments, independent study is offered at the lower and upper levels, although both levels are not available in all departments.

Students register in course numbers 199 or 699 in an appropriate department (290, 697, 698 in Bio Sci or 399 in Sociol) after preparing, with the approval of the supervising instructor, a statement (study proposal) describing the plan of study. The study proposal must be approved by the department chair and forwarded to the Office of Student Academic Services.

In order to apply for lower-level independent study, students must have a 2.5 GPA or above on all credits attempted at UWM. The upper-level independent study course carries a prerequisite of junior standing and a 2.5 UWM GPA. Departments may opt to set higher GPA prerequisites. To ascertain class standing and cumulative GPA for new transfer, special, and summer-only students, a transcript of all previous college work must be submitted. Some independent study courses may have departmental prerequisites in addition to these college-wide prerequisites. Departments do not have the authority to waive college-wide prerequisites. See the course listings in this catalog to determine if a particular department offers independent study.

Innovative Weather

UWM's Innovative Weather is a 24/7 weather operation that trains the next generation of meteorologists while providing weather-related services to the community and business partners throughout southeastern Wisconsin and the Midwest. Led by Dr. Paul Roebber and Mike Westendorf, Innovative Weather gives students hands-on experience in operational meteorology and professional job skills. It also provides community and business partners with reliable risk assessment forecasts and services, and it provides Milwaukee radio listeners with accurate and in-depth weather forecasts on 89.7 WUWM.

Innovative Weather hires UWM students pursuing degrees in atmospheric science or related fields. Employees develop skills in short- and long-range forecasting, broadcasting, and client communication as they progress from intern to meteorologist. The rigorous 24/7 schedule prepares students for the demands of a career in meteorology. Students also receive excellent training to acquire the soft skills that so many companies are seeking.

Email: mike@innovativeweather.com

Internship Opportunities

The Washington Center Internship. The College of Letters and Science participates in a program that arranges internships in Washington, D.C. Students earn 15 UWM credits in the fall or spring semester and 12 credits during the summer semester. The internships are full-time, non-paid positions. For more information on this opportunity, contact Lenore Fuller, Office of Student Academic Services, (414) 229-5899.

International Internships. A limited number of overseas internship opportunities are available to students accepted to some of the overseas study programs sponsored by the College. For more information on internships abroad, contact the Center for International Education, (414) 229-5182.

Local and Regional Internships. Internships are available in a variety of public and private agencies in the Milwaukee metropolitan area. For more information on internship opportunities, contact Cindy Piercy, Office of Student Academic Services, Holton 118, (414) 229-5872.

Overseas Study Opportunities

The College of Letters and Science, through the Center for International Education, offers a wide range of opportunities for students to study overseas through a variety of exchange and study abroad programs. Foreign language proficiency is required for some of the programs but is not required for all. Students accepted for participation earn UWM credits and make progress in their major and/or toward their degree at UWM. There also are numerous faculty-led, short-term UWinterim or summer programs in which students may earn three to six credits. Program locations change from year to year and have included Taiwan, Cuba, Ghana, Italy, Peru, India, United Kingdom, China, Brazil, Costa Rica, and France. For certain programs, students may apply for national, regional, or program-specific scholarships.

The programs listed below are sponsored by the College of Letters and Science through the Center for International Education. **For additional program information, see the International Study entry in the Academic Opportunities section of this catalog.**

Argentina: CEA Buenos Aires Study Abroad. Partnering with the University of Belgrano, this program is offered during the fall and spring semesters. Students can study Spanish language, Argentine immersion, international

business, Latin American studies, liberal arts, or social sciences. Some classes are taught in English.

Australia and New Zealand Study Abroad. Students may earn UWM credit and receive a small program fee reduction by studying in a wide variety of disciplines at one of seven Australian or two New Zealand universities sponsored by UWM through our affiliation with GlobalLinks. Students can study during the fall, spring, or academic year.

Brazil: Pontificia Universidade Catolica Exchange. Located in Rio de Janeiro, this fall or spring semester program offers students the opportunity to take classes in English while also learning Portuguese. The courses taught in English have a content based on aspects of Brazil and Latin America, such as culture, literature, business, design, civilization, and history, among others.

Chile: Pontificia Universidad Catolica Study Abroad. Located in Santiago, Chile, this fall, spring, or academic-year program offers participants the opportunity to study a wide variety of courses from many disciplines, including liberal arts and Spanish language courses, at the prestigious Catholic University.

China: China Studies Institute Study Abroad. Study in Beijing during the summer, fall, spring, or academic year at this Chinese language and culture unit within Peking University. Non-language courses are taught in English in a broad range of disciplines. Field studies and internships are available.

Egypt: American University in Cairo Study Abroad. Study in this American-style university in the city center of Cairo. This program is for students of all majors with an interest in Arabic studies and languages.

Egypt: AMIDEAST Study Abroad in Cairo. AMIDEAST partners with the Arab Academy for this program. Students can choose from a Middle East Studies track and an Egyptology track. In both, students take Arabic language and relevant subject-area courses. Internships are available.

England: London Study Program. Located in central London, this spring semester, faculty-led study abroad program offers a liberal arts curriculum with guest lecturers, regional excursions, internships, and cultural events.

England: British Universities Exchange Programs. Selected students enroll in fall, spring, or academic-year courses at the University of Birmingham, University of Sunderland, or University of Kent at Canterbury. We also have an exchange with the University of Sheffield that runs during the spring semester or academic year. Students may take a wide variety of courses in many different disciplines.

England: Herstmonceux Castle Study Abroad. Located in East Sussex about one hour south of London, students can study liberal arts and business for a fall, spring, or summer term in this renovated 15th-century castle. Scholarships, regional excursions, and social events are highlights of this program.

France: Eurocentres Study Abroad. This summer, UWinterIM, or fall or spring semester program gives students the opportunity to study intensive French. It is open to students of all levels and includes cultural excursions and field trips to encourage cultural immersion. Students have the opportunity to study in Paris, Amboise, or La Rochelle.

France: Paris Semester Study Abroad. This is a spring semester, faculty-led program with course offerings in French language and literature, art, history, geography, and politics at the *Institut de Langue et de Culture Françaises* of the *Institut Catholique* in Paris as well as a credit internship teaching in French schools and the opportunity to take a business class at a French business school. The program includes tours and visits to places of historical and cultural interest.

France: Sciences Politiques Exchange. This fall, spring, or academic-year exchange is for advanced French speakers with strong social science backgrounds (political science, international studies, history), and is offered at one of the most prestigious higher education institutions in France. Many French presidents and diplomats have graduated from this school, located in Paris. Other campuses include Dijon, Le Havre, Menton, Nancy, Poitiers, and Reims.

France: Novancia Business Exchange. A fall, spring, or academic-year offering at *Novancia* in Paris, endorsed by the Lubar School of Business at UWM, this exchange program for undergraduate and graduate students will be of special interest to business, communication, or mass communication students. Courses are taught in English. A wider variety of courses are available for advanced French speakers.

France: MICEFA Exchange. A fall, spring, or academic-year program coordinated by the *Mission Interuniversitaire de Coordination Échanges Franco-Américains (MICEFA)* in Paris, this immersion program is for advanced French speakers who are placed at one of ten different Parisian universities for study of a wide variety of subjects.

France: ESA Exchange. Enroll in Architecture and Urban Planning course offerings in French at the *École Spéciale d'Architecture (ESA)* in Paris during the fall or spring semester.

France: ESSEC International Business School Exchange. Students can study during the fall or spring semester at the campus located in Cergy-Pontoise, just outside of Paris. Classes include business administration, business management, economics, human resources, and intensive French language. Several courses are taught in English.

Germany: Eurocentres Berlin Study Abroad. This summer, fall, or spring program gives students the opportunity to study intensive German. It is open to students of all levels and includes cultural excursions and field trips to encourage cultural immersion.

Germany: Giessen Exchange. This is a spring semester or academic-year program in which qualified UWM students enroll at *Justus Liebig Universität* in Giessen, Germany. Participation in the exchange fulfills a large portion of credits needed for a German Studies Certificate. Several scholarships are available for this program.

Germany: Hessen-Wisconsin Exchange. This is a unique program, managed by UWM, for students of the University of Wisconsin System. The exchange can be for a semester, year, or summer session at any one of the 13 participating Hessian universities located in Darmstadt, Frankfurt, Fulda, Giessen, Kassel, Marburg, Offenbach, and Wiesbaden. Immersion courses, language learning at all levels, and some courses in English are offered.

Germany: Europa-Universität Viadrina Exchange. This is a fall, spring, or academic-year program located on the border between Germany and Poland. Students can pursue law, economics, and cultural studies in German, Polish, or English languages.

Germany: Otto-Friedrich-Universität Bamberg Exchange. This academic year-long program is located in Bamberg, a charming town located in central Germany that was designated as a UNESCO World Heritage City. Students may take courses in German, English, or a combination of both. Bamberg offers a wide array of subject options such as humanities, social sciences, business, and applied computer science and information systems.

Northern Ireland: Colmcille Study Abroad. This unique spring semester study program starts in Dublin and moves to Gleanncholmcille (both in the Irish Republic) for Irish language and culture training; then the program continues in Derry, Northern Ireland (United Kingdom), for studies in peace and conflict resolution at the Magee College of the University of Ulster.

Israel: Rothberg International School-Hebrew University of Jerusalem Study Abroad Program. Students have the opportunity to study in English at the Hebrew University of Jerusalem in a wide variety of subjects, such as religious, Israeli, and Middle Eastern studies; business; psychology; environmental studies; dance; and music. Students also develop proficiency in Hebrew and participate in a comprehensive program of extracurricular activities, including tours in Jerusalem and throughout the country.

Israel: Ben-Gurion University of the Negev-Ginsburg Ingerman Overseas Student Program. Students will have the opportunity to study Hebrew language in addition to choosing from a variety of courses taught in English that are designed to enhance and connect their experience in Israel. Students will be encouraged to participate in volunteer service to deepen their knowledge of and exposure to Israel and its people. This program is offered during the fall, spring, and academic year.

Italy: Eurocentres Florence Study Abroad. This summer, UWinteriM, or fall or spring semester program gives students the opportunity to study intensive Italian. It is open to students of all levels and includes cultural excursions and field trips to encourage cultural immersion.

Italy: Santa Reparata International School of Art Study Abroad. Santa Reparata International School of Art (SRISA) provides accredited academic-year and semester studio art programs, short workshops, and summer classes of the highest caliber. SRISA believes that a balanced curriculum of studio art courses and academic courses provides the most comprehensive experience for students who have chosen Florence as their place of study. Course offerings in liberal arts and culture complement the studio disciplines to provide students with an intellectual framework and historical context for their creative work. With the exception of Italian, all courses are taught in English.

Japan: Chiba University Exchange. This exchange is located in Chiba, the prefecture adjacent to Tokyo and the sister-state of Wisconsin. Students take courses in Japanese language and culture. For those proficient in Japanese, a wide variety of courses in many different disciplines are offered.

Japan: Eurocentres in Kanazawa Study Abroad. This summer, UWinteriM, fall, or spring semester program gives students the opportunity to study intensive Japanese. It is open to students of all levels and includes cultural excursions and field trips to encourage cultural immersion.

Japan: Nanzan University Exchange. This exchange in Nagoya, Japan, is ideal for learners of Japanese at the intermediate levels. The program offers intensive Japanese language instruction and English-taught courses in business, economics, history, culture, politics, and general area studies. Students with high Japanese proficiency can choose to take subject courses taught in Japanese. Courses in a variety of disciplines are taught in English.

Japan: Seijo University Exchange. Qualified students may enroll for spring semester or academic-year course offerings at Seijo University in Tokyo, Japan. An intensive Japanese language course precedes the start of the program.

Japan: Japan Center for Michigan Universities (JCMU) Study Abroad. Students participating in this fall, spring, or academic-year program will take classes in Japanese language and elective courses in Japanese area studies.

Jordan: AMIDEAST Study Abroad in Jordan. Students study in Amman, the capital city of Jordan. The Qasid Institute for Modern Standard & Classical Arabic is AMIDEAST's partner for this program. Students will take up to 7 credits of Arabic and an interdisciplinary course on contemporary Jordan, and they will choose from elective courses in several diverse subject areas, including social sciences, the humanities, and natural sciences. Internships are available.

Korea: Ajou University Exchange. This summer, spring, or academic-year program is located in Suwon, South Korea. The University is unique because there are over 100 courses taught in English that closely match UWM offerings, especially in the sciences. Korean language and culture classes also are offered.

Korea: Korea University Sejong Campus. University Sejong Campus (KU-Sejong) is located in the center of Korea, in Jochiwon, a small town that is in proximity of three major cities that are accessible easily by either bus or train. KU-Sejong hosts 24 departments in the College of Humanities, Business and Economics, Science and Technology, Pharmacy, the School of Public Administration, and the School of Sports and Leisure Studies. Students may attend KU-Sejong during the fall, spring, or academic year.

Mexico: Tec Monterrey Exchange. This fall, spring, summer, or academic-year exchange at the *Instituto Tecnológico y de Estudios Superiores de Monterrey* offers students a wide variety of liberal arts, business, and engineering courses for intermediate to advanced Spanish speakers.

Morocco: AMIDEAST Study Abroad in Rabat. AMIDEAST partners with Mohammed V University-Agdal for this program that is offered during the fall, spring, and academic year. All students take Modern Standard and Moroccan Arabic and then choose from various Middle East and North African studies courses. French courses also are available.

Morocco: AMIDEAST Study Abroad in Ifrane. For this program, AMIDEAST partners with Al Akhawayn University (known as AUI) located in the mountain resort town of Ifrane about 60 miles south of Fez. Students can study during the fall, spring, or academic year and are required to participate in a three-week orientation located in Rabat. This orientation is designed to introduce students to Moroccan Arabic, culture, and daily life, and familiarize them with the logistics of the program.

Peru: Pontificia Universidad Católica del Perú Study Abroad. Located in Lima, Peru, this fall, spring, or academic-year program offers participants the opportunity to study a wide variety of courses from many disciplines, including liberal arts and Spanish language courses, at the prestigious university.

Russia: Wyoming Saratov Study Abroad Program. Partnering with the University of Wyoming and Saratov State University, this summer program gives students the opportunity to study Russian language.

Spain: CIEE Seville Study Abroad Program. This semester, year, or summer program in Seville is sponsored by CIEE. Students study Spanish language and choose a variety of other courses in civilization, culture, business, and education by following a distinct program track. Credit-bearing internships also are available. Courses taken through this program cannot be counted toward a Spanish major or minor at UWM.

Spain: Universidade de Vigo Exchange. Located in Galicia, Spain, students will have the opportunity to earn undergraduate or graduate credits in a variety of disciplines during a spring semester or year-long stay.

Spain: Universidad de Santiago de Compostela Exchange. In this spring semester or year-long exchange program, students can earn undergraduate or graduate credits in a wide variety of disciplines.

Sweden: Jönköping Exchange. Students may study at Jönköping University for a semester or for an academic year. Engineering, business, and economics courses are taught in English.

Sweden: Mälardalen Exchange. Learn about Swedish language and culture, Scandinavian studies, and a variety of other classes, some of which are conducted in English. The subjects taught at the university range from engineering; the natural, social, and behavioral sciences; to the humanities.

Switzerland: Eurocentres in Lausanne Study Abroad. This summer, winter, fall, or spring program gives students the opportunity to study intensive French. It is open to students of all levels and includes cultural excursions and field trips to encourage cultural immersion.

Taiwan: Mandarin Training Center Study Abroad. The Mandarin Training Center is the Chinese language training unit of the National Taiwan Normal University in Taipei, which is known for its innovative curriculum and small class sizes. Students can study during the summer, fall, spring, or academic year.

Thailand: Mae Fah Luang University Exchange. Students select from a variety of courses in English that include Hmong and heritage studies, computer science, management, and law.

For more information concerning these exchange and study abroad programs, please contact the Center for International Education, located in Pearse Hall 166, (414) 229-5182 uwm.edu/cie/study-abroad/.

Undergraduate Research Opportunity (UROP)

The Undergraduate Research Opportunity Project (UROP) in the College of Letters and Science pairs students with faculty researchers across the University. Building on a long tradition of undergraduate research at UWM, the UROP assists undergraduates, even in their first years at UWM, to have the opportunity to engage, in a structured setting, with the research mission of the University. Students work side by side with faculty members on faculty research projects, and they receive academic credit for their work. The UROP is designed for highly motivated students who want to contribute to the creation of knowledge instead of just acquire it.

Interested students can request information online at uwm.edu/our or by contacting the UROP office (414) 229-2641. The UROP staff will help students identify possible research projects and arrange for students to meet with the faculty members. Accepted students commit to a year-long course (for up to 6 credits) as an apprentice to a faculty mentor and participate in a required one-credit research seminar with other students in the program. For more information, visit the [UROP website](#).

Wisconsin Universities United Nations Summer Seminar

Since 1966, students from all UW System campuses and other universities have participated in this 6-credit program. Selected students spend one week at UW-Milwaukee in intensive study of international organizations and the United Nations. The Seminar then moves to New York City for one month, where attention shifts to briefings, library research, and personal interviews with the personnel of the UN and various national missions. Students also use the UN's Dag Hammarskjöld Library for documentary research.

This program is administered by the Center for International Education (CIE) in the College of Letters and Science at the University of Wisconsin-Milwaukee. For more information, contact CIE, Pearse Hall 166, (414) 229-5182.

Cultures and Communities Program

Administered by the College of Letters and Science, the Cultures and Communities Program is open to undergraduate students in all of UWM's schools and colleges. The Cultures and Communities (CC) certificate brings together students and faculty members from many areas of the arts, sciences, humanities, social sciences, education, and the health professions.

The CC certificate provides a meaningful general education experience through courses focusing on U.S. multicultural studies, global and international perspectives, and the community and cultural contexts of art, science, health, and technology. It also contains a service learning/community engagement component that offers students the opportunity to participate in a wide variety of off-campus learning experiences in the Milwaukee community.

Students may earn the CC certificate while satisfying their L&S distribution and University general education requirements. In doing so, students can strengthen their preparation for careers in education, business, law, government, health care, and any other career areas that involve community engagement. Such professions increasingly demand applicants who have developed multicultural awareness, intercultural communication skills, and an understanding of how globalization affects us all.

More detailed information about the CC certificate can be found online at uwm.edu/cultures-communities. Requirements for the certificate are listed in the General Education Requirements section of this catalog. A list of courses approved for the certificate appears in the L&S Certificate Programs section of the catalog. For more information, consult with the Program Director, Dr. Robert Smith, at cc-info@uwm.edu or (414) 229-6327.

Certificate Programs

Like a departmental minor, certificate programs offer a specific academic focus but differ by being interdisciplinary, allowing students to combine related courses in different disciplines to explore a common theme. Students who earn certificates demonstrate their intellectual commitment to a subject and their competence in scholarly areas, which can prove valuable at the graduate level or in the workplace.

The certificate programs listed below are available to all UWM undergraduates and, in most cases, to students who have previously earned a bachelor's degree from UWM or any other accredited institution. Others may be able to enroll as non-degree students if they meet UWM admission requirements.

Certificates are awarded at the time of graduation or upon completion of the program requirements.

- [American Indian Studies](#)

- [Courses: American Indian Studies \(AIS\)](#)
 - [Ancient Mediterranean Studies](#)
 - [Asian Studies](#)
 - [Business and Technical Communications](#)
 - [Business of Media and Film Studies](#)
 - [Celtic Studies](#)
 - [Courses: Celtic Studies \(CELTIC\)](#)
 - [Childhood and Adolescence Studies](#)
 - [Comparative Ethnic Studies](#)
 - [Courses: Ethnic Studies \(ETHNIC\)](#)
 - [Cultures and Communities](#)
 - [Death Investigation](#) (see [Forensic Sciences](#))
 - [Digital Arts and Culture](#)
 - [Ethics, Values, and Society](#)
 - [Food Studies](#)
 - [Courses: Food Studies \(FOOD\)](#)
 - [Forensic Sciences](#)
 - [Forensic Toxicology](#) (see [Forensic Sciences](#))
 - [French and Francophone Studies](#)
 - [Global Health](#) (see [Inter-School/College Programs](#))
 - [Hmong Diaspora Studies](#)
 - [Courses: Hmong \(HMONG\)](#)
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 - [Middle Eastern and North African Studies](#)
 - [Peace Studies and Conflict Resolution](#)
 - [Courses: Peace Studies \(PEACEST\)](#)
 - [Premedical Studies](#)
 - [Russian and East European Studies](#)
 - [Scandinavian Studies](#)
 - [Courses: Scandinavian Studies \(SCNDVST\)](#)
 - [Spanish for Health Professionals](#)
 - [TESOL \(Teaching English to Speakers of Other Languages\)](#)
 - [Urban Studies](#)
 - [Courses: Urban Studies \(URB STD\)](#)
-

Pre-Professional Programs

[Pre-Dentistry](#)

[Pre-Forestry \(Wildlife Management\)](#)

[Pre-Law](#)

[Pre-Medicine](#)

[Pre-Pharmacy](#)

[Pre-Physician Assistant](#)

[Pre-Veterinary Medicine](#)

[Other Pre-Professional Health Study](#)

Special Areas of Study

Courses that do not appear elsewhere in this catalog are listed herein.

Courses

[L&S Humanities \(L&S HUM\)](#)

[L&S Natural Sciences \(L&S NS\)](#)

[L&S Social Sciences \(L&S SS\)](#)

[Literature in Translation](#)

Peer Mentoring. See L&S Hum 291, 292, 391.

UROP. See L&S Hum 296, L&S NS 296, L&S SS 294, 295, 296.

Washington Internship. See L&S SS 498.

Web Home Pages:
[[College of Letters and Science](#)]

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[School of Architecture and Urban Planning](#)

Architecture

- [Courses: Architecture \(ARCH\)](#)

Course of Study

The study of architecture at UWM consists of three levels that lead to the accredited professional degree of Master of Architecture. Students can enter the program at various levels depending on their background. Students with previous non-professional baccalaureate degrees should see the University of Wisconsin-Milwaukee [Graduate School Bulletin](#) for more information on the Master of Architecture program.

All undergraduate students are required to meet the UWM General Education Requirements.

Level 1 (Pre-Architecture). Freshman year should be taken at UWM. If taken at another institution whose credits are accepted for transfer by UWM, the student is expected to achieve equivalent background and skills. Significant differences in courses will require that additional coursework be completed prior to Level 2 admission.

Level 2 (Architectural Studies). Sophomore, junior, and senior years, taken in the Department of Architecture. This period provides a general introduction to the problems and techniques of architectural design. Students who are accepted into Level 2 and complete the program receive the Bachelor of Science in Architectural Studies. This is not an accredited professional degree. It can provide, however, a foundation for employment as a non-professional in architecture or in fields related to architecture, construction, design, and planning, or for graduate study in architecture or in other disciplines concerned with the physical environment.

Level 3 (Master of Architecture). Graduate study taken in the Department of Architecture. See the University of Wisconsin-Milwaukee [Graduate School Bulletin](#) for details.

Level 1 (Pre-Architecture)

Admission. Students applying to the University of Wisconsin-Milwaukee and declaring a primary interest in architectural studies on their application forms will be designated as Architectural Studies-Intended (Pre-Architecture) students. They will be advised by the School's undergraduate advisor in the Student Advising Office. The policies and procedures of the School of Architecture and Urban Planning apply to admitted students, even though they may be enrolled in courses in another school or college at UWM.

Pre-Architecture students are not automatically accepted into the Level 2 program. A separate application is required.

New freshman admission to the School of Architecture and Urban Planning is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the ACT or SAT. For preferential consideration, applications (including ACT or SAT scores) must be completed no later than March 1 (for summer/fall term) or December 1 (for spring term). Applications not complete by the priority date or not meeting these admission

criteria will be considered on a space-available basis.

See general freshman admission requirements of the University.

Academically qualified international student applicants must have a TOEFL score of at least 79 (iBT) or 550 (PBT), or they may be admitted following successful completion of the Intensive English Program at UWM, as demonstrated by an appropriate TOEFL score.

Transfer students are admitted on a selective basis. Preference is given to students whose applications are completed, including all required supporting documents, no later than March 1 (for the following summer/fall term) or December 1 (for the following spring term) and who have completed (or will have completed by the anticipated enrollment date) at least 24 degree credits with a cumulative grade point average of at least 2.5 (on a 4.0 scale). In addition, transfer applicants must meet the same high school English and mathematics course requirements as new freshman applicants. International transfer student applicants also must meet the minimum TOEFL requirement.

Students enrolled in other UWM schools or colleges who wish to enter the architecture program will also be considered for admission on the basis of the criteria listed above. They must file an internal transfer intent form (available in the Student Advising Office) no later than February 1 (for the following summer/fall term) or December 1 (for the following spring term) to be considered for preferential review.

Course of Study. The Level 1 curriculum consists of a series of required courses within the Department and recommended courses outside the Department to satisfy competency and distribution requirements. Coursework offered by the Department at Level 1 introduces the student not only to architecture as a field of study and a profession, but also to the skills and project experiences useful in deciding whether to pursue further study in the field of architectural design.

Freshman Year Requirements

Arch 100	Architectural Making I	3
Arch 102	Architectural Making II	3
Arch 103	Architectural Thinking I	3
Arch 104	Architectural Thinking II	3

In addition, the Department occasionally offers a special topics course (190) for experimental coursework.

Competency Requirements. Demonstrated competency in English, mathematics, physics, and foreign language is required for admission to Level 2.

English.

Oral and Written Communication Competency - Part A: Complete English 102 with a grade of C or higher or place beyond English 102 on the English Placement Exam (EPT).

Oral and Written Communication Competency - Part B: Complete at least one OWC - B course (see [schedule of classes](#) for this listing).

Mathematics.

Quantitative Literacy Competency - Part A: Placement code of a 36 on the Math Placement Test; or a grade of C or better in both Math 105 and 117.

Quantitative Literacy Competency - Part B: Complete at least one QL-B course (see [schedule of classes](#) for this listing).

Physics. Satisfactorily complete a college-level physics course (100, 107, 120 or higher).

Foreign Language. Please refer to the [Academic Information](#) section at the beginning of this catalog for specific information on this requirement.

Directed Electives (30 cr). The Department requires courses outside the department to give students a foundation in the arts, humanities, social sciences, and natural sciences. These courses satisfy the distribution area of the UWM General Education Requirements (GER).

Arts	6
Humanities	6
Social Sciences	6
Natural Sciences, to include a lab	6

Additional 6 from any of the above categories

One course must satisfy the GER Cultural Diversity Requirement. A list of courses is provided in the online *Schedule of Classes* each semester under "General Education Requirements."

One course must satisfy the Service Learning Requirement. A list of courses is provided in the online *Schedule of Classes* each semester.

Directed electives can be completed in Level 2.

Level 2 (Architectural Studies)

Admission. Entrance into this level requires the following standards: completion of a minimum of 30 credits (sophomore standing); a cumulative GPA of at least 2.75 in both the overall college record and required Level 1 architecture courses (Arch 100, 102, 103, and 104, or their equivalent). Because enrollment is contingent upon available staffing and facilities, satisfaction of the minimum requirements does not guarantee admission to Level 2. The academic quality of the student's Level 1 studies are carefully reviewed by the School's BSAS Committee. Admission to the University does not guarantee acceptance by the Department of Architecture.

Enrollment priority is given to students with the highest cumulative GPAs for admission into Architecture 310.

Application instructions are available in the School's Student Advising Office. Students applying for the fall semester must submit a Level 2 application by May 1. Transfer students should apply at least one month prior to this date to assure adequate time for receipt and evaluation of transcripts by the University's Office of Undergraduate Admissions.

Transfer students applying to Level 2 must demonstrate that they have taken the equivalent of the Level 1 program of study (Arch 100, 102, 103, and 104).

Advanced students transferring from another architectural or related program (design, engineering, landscape architecture) may petition the BSAS Committee for advanced standing. Students must show that prior coursework parallels coursework in the Level 2 program. A minimum of two semesters of work, consisting of at least 24 credits in total, must be completed in residency for the bachelor's degree.

Second-degree candidates enrolled in architecture courses are classified as seniors in architecture. They are not subject to the University's General Education Requirements; however, they must complete (or have completed) the Level 1 Mathematics and Physics Competency Requirements. Admission to the School as a second-degree candidate requires a cumulative grade point average of at least 2.75 (on a 4.0 scale) on the previous undergraduate record. Applications must be completed no later than March 1 (for the summer/fall term) or October 1 (for the spring term). For information on second-degree requirements, students should schedule an appointment with Tammy Taylor, Undergraduate Advisor, (414) 229-4015.

Course of Study. Students admitted to the Level 2 program must complete the courses listed below.

Two introductory core studios in the sophomore year (12 cr)

Arch 310	Fundamentals of Architectural Design I	6
Arch 320	Fundamentals of Architectural Design II	6

1. Core Studios (12 cr)

Arch 410	Architectural Design I	6
Arch 420	Architectural Design II	6

2. Core Courses (18 cr)

Arch 282	Visualization I	3
Arch 283	Visualization II	3
Arch 301	Architectural Structures and Construction	3
Arch 302	Architecture and Human Behavior	3
Arch 303	Architecture and Environmental Response	3
Arch 304	Contemporary Criticism and Urbanism	3

3. Electives at the 300 level or above (24 cr)

Of these, 15 must be completed in the Department of Architecture. A minimum of 9 credits at the 300 level or above must be taken outside the Department of Architecture. Students intending to enter the Level 3 program will need to complete a third, 600-level studio. For the BSAS degree, at least the last 24 credits must be earned in residency at UWM. A total of 120 credits is required for graduation. The minimum cumulative GPA required for all UWM credits and for all Level 2 credits attempted is 2.5.

BSAS Requirements

Total credits needed to graduate: 120

Completion of this degree does **not** guarantee admission to the graduate programs in architecture.

Architectural Studies Minor

The Department of Architecture offers a Minor in Architectural Studies for students enrolled in other degree programs on campus. To receive recognition for coursework completed toward the minor, students must satisfactorily complete courses in the minor track.

Course of Study

Students who choose the Minor in Architectural Studies must have a declared major in another school or college at UWM and must have a minimum of a 2.75 grade point average.

The minor consists of 18 credits in architecture courses. Nine credits numbered 300 or above must be taken in residence at UWM. All credits in the minor must be completed with an overall grade point average of at least 2.75, and no courses may be taken on a credit/no credit basis.

Limitations

The Department reserves the right to cap admissions into the minor on the basis of course availability. Students in the major have first priority registration for all courses in the Department. In cases of full capacity, students enrolled in the minor will be ranked and admitted into the program or into a course on the basis of overall GPA.

For more information about requirements for the minor, contact Tammy Taylor, Undergraduate Advisor, School of Architecture and Urban Planning, AUP 225, ttaylor@uwm.edu, (414) 229-4015.

Academic Regulations

For information on the University-wide Academic Action Policy and honors for scholarship, please refer to the Academic Information section at the beginning of this catalog.

Special Opportunities

The Department of Architecture provides the following opportunities for students and faculty to develop coursework with a special focus.

The **Independent Studies** course (Arch 392) rewards students with credits for worthwhile activities originated by the students, such as special reading or research programs, community service, or independent design projects. To be eligible, students in the Department of Architecture must have completed one semester of work and must have a cumulative GPA of at least 3.0 in their work in the Department. Students in other UWM departments must have the permission of their own departments and the Department of Architecture.

The **Directed Research** course (Arch 391) offers an opportunity for students to participate in current research projects of architecture faculty. Eligibility and approval for registration are at the discretion of the faculty members in charge of the projects.

The **Special Topics** course (Arch 390) permits individual faculty members to develop special subjects on a one-semester basis. Special Topics courses are announced at registration for the following semester.

The Department has developed a semester-long Study Abroad Program that allows students to combine foreign travel and study under the tutelage of one or more departmental faculty member(s). The location of the program may vary from year to year. Admission to the program is selective, based on the student's previous academic performance.

Accident and Health Insurance. Use of the School's woodworking shop requires that students provide evidence of personal accident and health insurance to the School of Architecture and Urban Planning Dean's Office.

Level 3 (Master of Architecture)

A student who receives the Bachelor of Science in Architectural Studies does not automatically qualify for the Level 3 graduate program, which must be completed for the accredited professional degree. Students must satisfy both the general admission requirements of the Graduate School and the special requirements of the Department of Architecture. Applicants should consult the University of Wisconsin-Milwaukee [Graduate School Bulletin](#).

Courses

[Architecture \(ARCH\)](#)

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School of Architecture and Urban Planning

Urban Planning

- [Courses: Urban Planning \(URBPLAN\)](#)

Although the professional planning program offered at UWM is a master's degree requiring two years of graduate study, a number of planning courses are available to undergraduates. They include:

1. A cluster of introductory courses reviewing urban problems and solutions for freshmen and sophomores, and introducing urban planning to upper-level undergraduates.
2. A cluster presenting the planning process in a general urban context.
3. A group of upper-level courses that introduce more specialized aspects of planning in contexts ranging from neighborhoods, through suburbs, to new towns and planned communities; and approaches from fiscal planning to environmental issues.

These courses are offered to students interested in learning more about planning and the roles of planners in addressing urban problems, and complement other programs such as architecture, business, economics, engineering, geography, social work, sociology, and political science.

Certificate Program

The Department of Urban Planning also offers undergraduates the opportunity to obtain a Certificate in Urban Planning. All undergraduate students are eligible. A cumulative GPA of 3.0 or better and a total of 18 credits from among designated courses are required. The intent of the program is to recognize those students who obtain a thorough introduction to urban planning through coursework. These courses provide students with an understanding of many of the most important problems facing urban society and help prepare students for a variety of careers and graduate study. Interested students should inquire in the Student Advising Office about either the Certificate Program or appropriate courses as preparation for graduate study in urban planning.

DESIGNATED COURSES: 12 CR

Both of the following (6 cr)

UrbPlan 140	Issues in Contemporary Urban Planning	3
UrbPlan 141	Urban Planning Solutions to Contemporary Urban Problems	3

One "Great Cities" course (3 cr)

UrbPlan 315	Planning for Great Cities of the World	3
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UrbPlan 316	Planning for the Great Cities of America	3
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One skills course (3 cr)

UrbPlan 591	Introduction to Urban Geographic Information Systems (GIS)	3
UrbPlan 651	Land Use Planning Practice	3
UrbPlan 655	Negotiation Theory and Practice for Planners	3

Electives: 6 Cr

Students may take any urban planning courses, including those listed above, to fulfill the elective credit requirement. Courses may be counted only once toward the certificate.

Total: 18 Urban Planning Credits

Courses

[Urban Planning \(URBPLAN\)](#)

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Civil Engineering

Web Home Pages:

- [College of Engineering and Applied Science](#)
- [Civil Engineering and Mechanics](#)
- Courses:
 - [Civil Engineering and Mechanics \(CIV ENG\)](#)

Civil engineering is a profession that deals with the infrastructure of society. Civil engineers design bridges, buildings, and other structures; develop and design water resources, waste treatment, and environmental management facilities; plan and design highway and transportation systems; and design foundations, earth and rock structures, and tunnels. Students completing a civil engineering program have an opportunity for professional employment with industry; utilities; consulting firms; contractors; local, state, and federal government agencies; research laboratories; and academia.

Mission Statement: The mission of the UWM undergraduate Civil Engineering Program is to educate students to become civil engineering professionals who plan, design, build, and manage the infrastructure needed for a modern urban society and the environment.

Program Educational Objectives: The educational objectives of the undergraduate Civil Engineering Program are:

1. Graduates apply broad-based knowledge of mathematics, science, and engineering science for solving engineering problems and creating engineering designs in the civil engineering profession.
2. Graduates demonstrate leadership in infrastructure design by creating solutions for complex urban problems by synthesizing and implementing knowledge from multiple disciplines.
3. Graduates are leaders in the workplace and in professional organizations by demonstrating effective communication skills, ethical responsibility, and social awareness.
4. Graduates adapt to changes in the urban and global environment by exhibiting intellectual curiosity, innovating, pursuing continuous education, and embracing diverse ideas.

Objective 1. Graduates apply broad-based knowledge of mathematics, science, and engineering science for solving engineering problems and creating engineering designs in the civil engineering professional field.

This objective implies that graduates will have a solid preparation that includes the knowledge of mathematics, sciences, statistics, engineering science disciplines, and computer applications as a foundation for later studies and lifelong learning. Through a rigorous program preparation, graduates will also be well-versed in different ways of addressing engineering problems.

Objective 2. Graduates demonstrate leadership in infrastructure design by creating solutions for complex urban problems by synthesizing and implementing knowledge from multiple disciplines.

This objective implies that graduates will have the necessary breadth and depth of technical knowledge and professional training to sustain a lengthy career as a civil engineer. It also encompasses broad knowledge of four traditional fields of civil engineering such as with an in-depth specialization knowledge in one focus area, as well as proficiency in experimentation, design, professional tools, communication skills, relationships between the engineering design and legal, environmental, and societal concerns.

Objective 3. Graduates are leaders in the workplace and in professional organizations by demonstrating effective communication skills, ethical responsibility, and social awareness.

This objective relates to the non-technical aspects of professional practice. Included in professional preparation are ethics, participation in professional organizations, interactions between professionals, and integrating non-engineering factors in designs and decisions.

Objective 4. Graduates adapt to changes in the urban and global environment by exhibiting intellectual curiosity, innovating, pursuing continuous education, and embracing diverse ideas.

This objective recognizes the speed of technological change, changing professional environments, and the need to keep the program up-to-date, both in terms of the knowledge transmitted and the means by which it is transmitted.

Accreditation: The civil engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

Structural Engineering Minor

The minor in structural engineering is designed especially for students in the following majors: Architecture, Mechanical Engineering, Industrial and Manufacturing Engineering, Materials, Geology, and Physics. This minor is not available to civil engineering majors. The 18-credit minor requires Civ Eng 335, 360, and 372, and one of the following two courses: Civ Eng 571 or 572. Choose any two additional courses from the following list: Civ Eng 401, 431, 456, 463, 502, 560, 566, 571, 572, 573, 574, 578, 579; and Arch 301, 510, and 516. More information on the minor may be obtained from the Civil Engineering department, (414) 229-5422.

The Civil Engineering and Mechanics Department offers many elective courses that normally allow each student to concentrate in one of four areas: geotechnical engineering, structural engineering, transportation and municipal engineering, or water resources and environmental engineering.

Geotechnical engineering deals with soil and rock as engineering materials. Geotechnical engineers may be involved in the analysis, design, and construction of foundations, retaining structures, earth and rock dams, excavations, tunnels, landfills, toxic waste remediation projects, and other areas related to construction.

Structural engineering deals with the analysis, design, fabrication, and construction of all types of structures, including buildings, bridges, tunnels, retaining walls, foundations, dams, and aerospace and pressure vessels. With recent advances in the area, the structural engineer must have considerable competence in the use of computers and understanding of structural materials.

Transportation and municipal engineering includes activities to carry out the public works programs of local government units, including the planning, design, construction, and management functions related to street, sewerage, and water supply systems. Transportation engineering deals with the planning, design, and operation of transportation systems, such as highways, public transit, airports, and railways.

Water resources and environmental engineering deals with problems of water resources and environment. It includes water resources development such as water supply systems for human, irrigation, energy, and industrial use; and environmental mitigation practices such as sewerage systems, contamination remediation, drainage, flood and erosion control, as well as pollution control. It also includes natural resources management such as river, lake, and groundwater restoration and management.

CIVIL ENGINEERING CURRICULUM

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in civil engineering is 127. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Engineering Core Courses: 33 credits

EAS 100	CEAS Freshman Orientation (recommended only)	1
EAS 200	Professional Seminar	1
Ind Eng 111	Introduction to Engineering	3
Ind Eng 112	Engineering Drawing and Computer-Aided Design/Drafting	3
Ind Eng 360	Engineering Economic Analysis	3
Civ Eng 280	Computer-Based Engineering Analysis	3
Civ Eng 201	Statics	3
Civ Eng 202	Dynamics	3
Civ Eng 303	Strength of Materials	4
MatlEng 201	Engineering Materials*	4
MechEng 301	Basic Engineering Thermodynamics	3
MechEng 320	Introduction to Fluid Mechanics	3

Civil Engineering Major: 23 credits

Civ Eng 250	Surveying for Construction	3
Civ Eng 335	Soil Mechanics	3
Civ Eng 372	Introduction to Structural Design	4
Civ Eng 411	Water Resources Design	3
Civ Eng 413	Environmental Engineering	3
Civ Eng 490	Transportation Engineering	3
Civ Eng 494	Principles of Civil Engineering Design	1
Civ Eng 495	Senior Design	3

* Civil engineering majors may take Civ Eng 431 (with proper prerequisites) in place of MatlEng 201.

Mathematics Requirement: 14-16 credits¹

One of the following Calculus sequences must be completed:

Math 231-232-233

or

Math 221-222 (Honors)

and

ElecEng 234 (Analytical Methods in Engineering)

Chemistry Requirement: 5-10 credits¹

One of the following sequences must be completed:

Chem 102-104

or

Chem 105 (Suggested)

Physics Requirement: 8 credits

Physics 209 - 210

Other Natural Sciences (3 credits)

Any Geo Sci course 300 level or above, or

Any Bio Sci course 150 level or above, or

Any Atm Sci course 200 level or above

GER Distribution Requirement: 15 credits

Arts		3
Humanities		3
English 310	Writing, Speaking, and Technoscience in the 21st Century	3
Social Science		3

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

Free Electives: 3 credits

English Composition Requirement: 0-6 credits¹

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test, or
2. Earning a grade of C or higher in English 102.

Foreign Language Requirement: 0-8 credits (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

1. Two years of a single foreign language in high school;
2. Two semesters of a single foreign language in college; or
3. Demonstrate ability by examination.

¹ Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

Technical Electives - Civil Engineering Major: 21 Credits Required. The Civil Engineering and Mechanics Department offers numerous elective courses that allow students to work in one of four areas of concentration. Normally a minimum of 12 credits will be taken in an area of concentration. Students who do not follow one of the four areas of concentration will require approval by the Department chairperson for their programs.

Students interested in geotechnical engineering should take Civ Eng 456 and select at least three courses from Civ Eng

360, 412, 463, 492, and 598. Students also are strongly recommended to take Geo Sci 470.

Students interested in municipal and transportation engineering should select at least three courses from Civ Eng 492, 590, 592, 594, 596, 598, and 610.

Students interested in structural engineering should take Civ Eng 360, 463, 571, and 572, and select at least two courses from Civ Eng 456, 560, 573, 574, 578, and 579.

Students interested in water resources and environmental engineering should take at least three courses from Civ Eng 412, 511, 521, and 610.

Group A Technical Electives: Take 15-21 credits of Group A Electives. All non-required Civ Eng courses 400-699 are Group A Electives.

Group B Technical Electives: Select no more than 6 credits from this list.

		Cr
EAS 001	Co-op Work Period	3
English 206	Technical Writing	3
Geog 403	Remote Sensing	3
CompScie 250	Introductory Computer Programming	3
ElecEng 301	Electrical Circuits	3
Ind Eng 367	Intro Statistics for Physical Sciences & Engineering	3
Ind Eng 455	Operations Research I	3
Ind Eng 465	Operations Research II	3
Ind Eng 475	Design Experiments	3
MatlEng 431	Welding Engineering	3
MechEng 321	Basic Heat Transfer	4
UrbPlan 591	Introduction to Urban Geographic Information Systems	3
Geog 215	Introduction to Geographic Information Systems	3

Any Mathematics course 400-level or above, Math 313, 321, 322

Any Chemistry course 200-level or above, Chem 104

Any Physics course 300-level or above, Physics 214, 215

* Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.

* Students who take Chemistry 104 to satisfy 3 credits of Group B Electives

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Computer Engineering

Web Home Pages:

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- [Courses: Computer Science \(COMPSCI\)](#)
- [Courses: Electrical Engineering \(ELECENG\)](#)

Computer Engineering is part of the Department of Electrical Engineering and Computer Science at UWM. Computer engineering pertains to the design, implementation, and maintenance of hardware and software components of computers and computer-controlled equipment. Our program provides students with a broad and strong technical background in the field. It also helps students develop a solid grounding in computing, mathematics, and engineering. The students will learn to apply these theoretical principles to design hardware, software, networks, and computerized equipment for diverse application domains.

Mission Statement: The Department of Electrical Engineering and Computer Science is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

Program Educational Objectives: The educational objectives of the undergraduate Computer Engineering Program are:

1. Graduates will have successful careers in computer engineering fields or will be able to successfully pursue advanced degrees.
2. Graduates will provide solutions to challenging problems in their profession by applying computer engineering theory and principles.
3. Graduates will communicate effectively, work collaboratively, and exhibit high levels of professionalism and ethical responsibility.
4. Graduates will engage in lifelong learning and professional development to adapt to rapidly changing work environments.

Computer Engineering Major. The minimum number of credits required to complete the Bachelor of Science in Computer Engineering is 126. Students who need background preparation courses in math, English, and foreign language may need additional credits.

Engineering Core Courses: 12-13 credits

EAS 200	Professional Seminar	1
CompSci 250	Introductory Computer Programming	3
ElecEng 301	Electrical Circuits I	3
Ind Eng 467	Introductory Statistics for Physical Science and Engineering	3
MechEng 101 OR	Computational Tools for Engineering	2
CompSci 240	Introduction to Engineering Programming	3
Computer Engineering Major: 54 credits		
CompSci 251	Intermediate Computer Programming	3

ElecEng 305	Electrical Circuits II	4
ElecEng 310	Signals and Systems	3
CompSci 317	Discrete Information Structures	3
ElecEng 330	Electronics I	4
CompSci 337	Systems Programming	3
CompSci 351	Programming Data Structures	3
ElecEng 354	Digital Logic	3
CompSci 361	Introduction to Software Engineering	3
ElecEng 367	Introduction to Microprocessors	4
CompSci 395	Social, Professional, and Ethical Issues	3
ElecEng 457	Digital Logic Laboratory	3
CompSci 458	Computer Architecture	3
CompSci 469	Computer Security	3
CompSci 520	Computer Networks	3
CompSci 535	Data Structures and Algorithms	3
CompSci 537	Introduction to Operating Systems	3
Bus Adm 447	Entrepreneurship	3
CompSci 459	Fundamentals of Computer Graphics	3
CompSci 530	Computer Networks Laboratory	3

Mathematics Requirement: 14 to 16 credits suggested**

One of the following Calculus sequences must be completed:

Math 231-232-233

or

Math 221-222 (Honors)

and

ElecEng 234 (Analytical Methods in Engineering)

Chemistry Requirement: 5 credits suggested**

One of the following Chemistry sequences must be completed:

Chem 105 (5 credits suggested)

or

Chem 102-104 (10 credits)

Physics Requirement: 8 credits

Physics 209-210

GER Distribution Requirement: 15 credits

Arts		3
Humanities		3
English 310	Writing, Speaking, and Technoscience in the 21st Century	3
Social Science		3
Commun 105	Business and Professional Communication	3

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

Free Electives: 0-2 credits

English Composition Requirement: 0-6 credits**

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test; or
2. Earning a grade of C or higher in English 102.

Foreign Language Requirement: 0-8 credits (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

1. Two years of a single foreign language in high school;
2. Two semesters of a single foreign language in college; or
3. Demonstrate ability by examination.

**** Placement Examinations.** Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

TECHNICAL ELECTIVES: COMPUTER ENGINEERING MAJOR (16 credits)

Students must choose courses from Groups A, B, and C as indicated below:

Group A Technical Electives. Select 9 to 12 credits from the following list:

All Computer Science and Electrical Engineering courses 300-699 that are not explicitly listed in another category.

Ind Eng 475	Simulation Methodology	3
Ind Eng 572	Reliability Engineering	3

Group B Technical Electives. Choose 4 credits from the following list:

CompSci 595	Capstone Design Project	4
ElecEng 595	Capstone Design Project	4

Group C Technical Electives. Choose 0-3 credits from the following list:

CompSci 481	Server-side Internet Programming	3
CompSci 482	Rich Internet Applications	3
CompSci 581	Web Languages and Standards	3
CompSci 658	Topics in Applied Computing	3
ElecEng 335	Electronics II	4
ElecEng 471	Electrical Power Systems	3
ElecEng 472	Introduction to Wind Energy	3
Bio Sci 150	Foundations of Biology I	4
Bio Sci 152	Foundations of Biology II	4
Bus Adm 292	Introduction to Entrepreneurship and Small Business Foundation	3
Bus Adm 447	Entrepreneurship	3
EAS 200	Co-op Work Period	3
EAS 497	Study Abroad	3

English 206	Technical Writing	3
Ind Eng 360	Engineering Economic Analysis	3
MatlEng 201	Engineering Materials	4
MatlEng 481	Electronic Materials	3
MechEng 301	Basic Engineering Thermodynamics	3
MechEng 321	Basic Heat Transfer	4

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Computer Science

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- Courses:
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The discipline of computer science pertains to the study and design of computer systems, hardware and software, computing techniques, and underlying theory. Our program provides a student with a broad technical background in computer science. It is a flexible program providing breadth and permitting a student to develop strengths in selected areas within computer science, as well as in related areas such as electrical engineering, mathematics, or business, depending on a student's interests. Technical electives available in the Computer Science major span courses in a broad spectrum of areas such as Networks, Computer Security, Artificial Intelligence, and Database Systems.

Mission Statement: The Department of Electrical Engineering and Computer Science is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

Program Educational Objectives: The educational objectives of the undergraduate Computer Science Program are:

1. Alumni of the program will have successful careers built on their understanding of formal and applied methods of solving problems using computer theory, hardware, and software.
2. In their professional lives, alumni of the program will demonstrate problem-solving and design skills, including the ability to formulate problems and their solutions, think creatively, communicate effectively, and work collaboratively.
3. Alumni of the program will exercise professional responsibility and be able to adapt to an ever-changing professional environment.

Accreditation: The computer science program is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

Computer Science Minor. The computer science minor is directed toward those students wishing to develop some strength and background in computer science. This minor also is available to those who have already graduated. The minor requires 18 credits selected from Computer Science courses, with a minimum of 9 credits from 300-level coursework or higher. May not include CompSci 395 and prior consent is required to include CompSci 657 or 658. No more than 6 credits may overlap with a student's undergraduate major. The student must obtain a minimum GPA, as specified by the department, in the courses used to complete the minor.

Web Development Certificate. The Web Development Certificate is designed to offer students the opportunity to complement their major field of study with an additional concentration in web programming. This certificate is also available to those who have already graduated. The 15-credit certificate requires CompSci 481 and 482; one course to be selected from CompSci 113, CompSci 581, or InfoSt 685. The remaining 6 credits are selected from Art 218, 224, 325, Bus Adm 531, 532, Commun 313, 413, CompSci 112, 351, 361, 425, 444, CurrIns 530, 547, English 439, HCA 444, 542, L&I Sci 110, 240, 310, 410. No more than 6 credits may overlap with a student's undergraduate major. At

least 8 credits must be completed at UWM. The student must maintain a minimum GPA, as specified by department, in courses used to complete the certificate.

Computer Science Major. The minimum number of credits required to complete the Bachelor of Science in Computer Science with a major in Computer Science is 120. Students who need background preparation courses in math, English, and foreign language may need additional credits.

COMPUTER SCIENCE CURRICULUM

Computer Science Major: 50 credits

CompSci 150	Survey of Computer Science (recommended)	3
EAS 200	Professional Seminar	1
CompSci 250	Introductory Computer Programming	3
CompSci 251	Intermediate Computer Programming	3
CompSci 315	Introduction to Computer Organization and Assembly Language Programming	3
CompSci 317	Discrete Information Structures	3
CompSci 337	Systems Programming	3
CompSci 351	Programming Data Structures	3
CompSci 361	Introduction to Software Engineering	3
CompSci 395	Social, Professional, and Ethical Issues	3
CompSci 417	Introduction to the Theory of Computation	3
CompSci 431	Programming Language Concepts	3
CompSci 458	Computer Architecture	3
CompSci 520	Computer Networks	3
CompSci 535	Data Structures and Algorithms	3
CompSci 537	Introduction to Operating Systems	3
CompSci 595	Capstone Project	3
ElecEng 354	Digital Logic	3

Mathematics Requirement: 4 credits¹

One of the following Calculus courses must be completed:

Math 211, 213, 221, or 231

Natural Science Requirement: 12 credits (including at least 1 laboratory credit)

Bio Sci 150-152	Foundations of Biology I and II	8
Bio Sci 202-203	Anatomy & Physiology I and II	8
Chem 102-104	General Chemistry I and II	10
Physics 120-122	General Physics I and II	8
Physics 209-210	Physics I and II	8

Remaining credits to be chosen from the natural sciences electives from GER List, except that CompSci 150 may not be used as part of the Natural Sciences Requirement.

GER Distribution Requirement: 15 credits

Arts	3
Humanities	3

English 310	Writing, Speaking, and Technoscience in the 21st Century	3
Social Science		3
Commun 105	Business and Professional Communication	3

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

English Composition Requirement: 0-6 credits¹

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test, or
2. Earning a grade of C or higher in English 102.

Foreign Language Requirement: 0-8 (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

1. Two years of a single foreign language in high school;
2. Two semesters of a single foreign language in college; or
3. Demonstrate ability by examination.

¹ **Placement Examinations.** Once admitted to UWM, most computer science students are required to take placement examinations in mathematics and English. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

TECHNICAL ELECTIVES – Select 12 credits from the following three lists:

All non-required Computer Science courses numbered 400-699 are either Computer Science or Applied Technology Electives. The Applied Technology Electives are in the range 480-489, or 680-689. All other non-required Computer Science courses in the 400-699 range are Computer Science Electives.

Computer Science Electives (Select 6 to 12 credits.)

All non-required Computer Science courses in the 400-699 range as described above.

ElecEng 367	Introduction to Microprocessors	4
ElecEng 451	Introduction to VLSI Design	3
ElecEng 457	Digital Logic Laboratory	3

Applied Computer Science Electives (Select 0 to 6 credits from this list.)

CompSci 481	Server-side Internet Programming	3
CompSci 482	Rich Internet Applications	3
CompSci 658	Topics in Applied Computing	3

Supplemental Electives (Select 0 to 6 credits from this list.)

Bus Adm 490	Entrepreneur Internship	3
EAS 1	Engineering Co-op Work Period	1-3
EAS 497	Study Abroad	1-3
English 206	Technical Writing	3

Applied Mathematics Electives (Select 6 credits from the following list.)

Math 232	Calculus and Analytic Geometry II	4
Math 233	Calculus and Analytic Geometry III	4
ElecEng 234	Analytical Methods in Engineering	4
Math 240	Matrices and Applications	3
Math 305	Introduction to Mathematical and Computational Math	3
Math 313	Linear Programming and Optimization	3
Math 315	Mathematical Models and Applications	3
Math 320	Introduction to Differential Equations	3
Math 431	Modern Algebra with Applications	3
Math 451	Axiomatic Geometry	3
MthStat 361	Introduction to Mathematical Statistics I	3
MthStat 469	Biostatistics	3
MthStat 563	Regression Analysis	3
Ind Eng 367	Introductory Statistics for Physical Sciences and Engineering Students	3
Math 234	(Alternative to ElecEng 234)	4
Math 467	(Equivalent to Ind Eng 467)	3

May include only one of Math 240, Math 234, ElecEng 234.

May include only one of Math 320, Math 234, ElecEng 234.

Free Electives: Variable credits

University-level courses of your choice as needed to reach a minimum of 120 total credits.

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Electrical Engineering

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Electrical engineers are at the forefront of developing technologies to improve and enhance our society. They are involved with understanding the fundamentals of nature to improve design methods and techniques, as well as applying their creativity to solving challenging problems. Electrical engineers design and analyze systems for supplying electric power; navigation systems for automobiles, aircraft, and spacecraft; audio and visual communication systems; and systems for information processing and computing.

The major in electrical engineering provides the undergraduate student with a broad understanding of the many areas within the field of electrical engineering. At the same time, the curriculum provides a choice of technical electives designed to strengthen the student in a chosen area of specialization.

Mission Statement: The Department of Electrical Engineering is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

Program Educational Objectives: The educational objectives of the undergraduate Electrical Engineering Program are:

1. Graduates are creative problem solvers who provide and communicate solutions to challenging problems by applying fundamental mathematical, scientific, and engineering principles, while giving special considerations to social issues, human factors, and ethical issues.
2. Graduates solve problems as members of a team, and will exhibit high levels of professionalism in their work.
3. Graduates are successfully engaged in careers in electrical engineering and related fields that support the regional and national economy.
4. Graduates are engaged in continued professional development.

Accreditation: The civil engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

Electrical Engineering Minor

The minor in electrical engineering is designed for students in engineering and science majors. The minor is not available to electrical engineering majors. It requires students to take a minimum of 21 credits, of which not more than 6 credits overlap with the student's major. Students must attain a minimum GPA of 2.0 in the minor.

Students must take at least 15 credits from the following core courses: ElecEng 301, 305, 310, 330, 335, 354, 361, 362, 367, and 595.

No more than 6 credits from the following list may be counted towards the minor: ElecEng 410, 420, 421, 429, 436, 437, 451, 457, 461, 462, 465, 471, ElecEng 474 or MechEng 474, 490, 541, 561, 562, 565, 572, ElecEng 574 or MechEng 574, EE 575, CompSci 458, 459, 536, MatlEng 481, MechEng 321. More information on the minor may be obtained from the Department of Electrical Engineering, (414) 229-5252.

ELECTRICAL ENGINEERING CURRICULUM

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in electrical engineering is 126. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Engineering Core Courses: 17 credits

ElecEng 101	Fundamentals of Electrical Engineering	3
EAS 200	Professional Seminar	1
CompSci 240	Introductory Engineering Programming	3
MatlEng 201	Engineering Materials	4
ElecEng 301	Electrical Circuits I	3
MechEng 301	Basic Engineering Thermodynamics	3

Electrical Engineering Major: 36 credits

ElecEng 305	Electrical Circuits II	4
ElecEng 310	Signals and Systems	3
ElecEng 330	Electronics I	4
ElecEng 335	Electronics II	4
ElecEng 354	Digital Logic	3
ElecEng 361	Electromagnetic Fields	3
ElecEng 362	Electromechanical Energy Conversion	4
ElecEng 367	Introduction to Microprocessors	4
ElecEng 420	Random Signals and Systems	3
ElecEng 595	Capstone Design Project	4

Mathematics Requirement: 14 to 16 credits suggested ¹

One of the following calculus sequences must be completed:

Math 231-232-233

or

Math 221-222 (Honors)

and

ElecEng 234 (Analytical Methods in Engineering)

Chemistry Requirement: 5 credits

Complete one of the following courses:

Chem 105

or

Chem 102

Physics Requirement: 10 credits

Physics 219-220

or

Physics 209-214 & 210-215

GER Distribution Requirement: 15 credits

Arts

Humanities		3
English 310	Writing, Speaking, and Technoscience in the 21st Century	3
Social Science		6

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

Free Electives: 2 credits

English Composition Requirement: 0-6 credits¹

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test, or
2. Earning a grade of C or higher in English 102.

Foreign Language Requirement: 0-8 (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

1. Two years of a single foreign language in high school;
2. Two semesters of a single foreign language in college; or
3. Demonstrate ability by examination.

¹ Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

Electives: Electrical Engineering Major. The electrical engineering program requires a total of 21 credits of technical electives and 3 credits of a probability and statistics elective, chosen as follows.

Group A Technical Electives: Select at least 15 credits from the following list. All non-required Electrical Engineering courses numbered 400-699 are Group A Technical Electives.

ElecEng 410	Principles of Discrete Systems and Digital Signal Processing	3
ElecEng 421	Communication Systems	3
ElecEng 436	Introduction to Medical Instrumentation	3
ElecEng 437	Introduction to Biomedical Imaging	3
ElecEng 451	Introduction to VLSI Design	3
ElecEng 457	Digital Logic Laboratory	3
ElecEng 458	Computer Architecture	3
ElecEng 461	Microwave Engineering	3
ElecEng 462	Antenna Theory	3
ElecEng 464	Fundamentals of Photonics	3
ElecEng 465	Broadband Optical Networks	3
ElecEng 471	Electric Power Systems	3
ElecEng 474	Introduction to Control Systems	4
ElecEng 482	Introduction to Nanoelectronics	3
ElecEng 490	Special Topics	1-3
ElecEng 541	Integrated Circuits and Systems	3
ElecEng 562	Telecommunication Circuits	3

ElecEng 565	Optical Communications	3
ElecEng 572	Power Electronics	3
ElecEng 574	Intermediate Control Systems	3
ElecEng 575	Analysis of Electric Machines and Motor Drives	3
ElecEng 588	Fundamentals of Nanotechnology	3
ElecEng 599	Senior Thesis	3
Bus Adm 447	Entrepreneurship	3
CompSci 459	Fundamentals of Computer Graphics	3
CompSci 520	Computer Networks	3
CompSci 530	Computer Networks Laboratory	3
EAS 1	Co-op Work Period ¹	3
EAS 497	Study Abroad ²	3
Ind Eng 360	Engineering Economics	3
MatlEng 481	Electronic Materials	3
MechEng 321	Basic Heat Transfer	4

¹ Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.

² Students who earn 3 or more credits of Study Abroad may use 3 of those credits as approved technical electives.

Group B Technical Electives: Choose no more than 6 credits from the following list.

Any Mathematics course 400 level or above, or Math 313, Math 321, or Math 322

Any Chemistry course 200 level or above, or Chem 104

Any Physics course 300 level or above, or Physics 214, or Physics 215

Any Biology course 150 level or above

Any Atmospheric Science course 200 level or above

Any Computer Science course 200 level or above

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Industrial and Manufacturing Engineering

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- Courses:
 - [Courses: Industrial Engineering \(IND ENG\)](#)

Industrial and manufacturing engineers are concerned with the design, improvement, installation, and operation of integrated systems of people, material, information, and energy for the development of environmentally sound and globally competitive enterprises.

Industrial/manufacturing engineers are needed in industries ranging from medical products and equipment manufacturing to automotive and electronic components manufacturing. Their skills benefit organizations such as hospitals, banks, airlines, telecommunications companies, and more. Some activities of an industrial/manufacturing engineer include: methods improvement; plant layout; integration of automation components (CAD and CAM); logistics; supply chain management; economic analysis; optimization of resources; quality control; reliability analysis; and ergonomics, i.e., design of workplaces, equipment, and tools for maximum productivity and employee comfort and safety.

In manufacturing companies, industrial/manufacturing engineers may be responsible for production and inventory control, quality control, plant layout, and work station design, and may lead the effort for the introduction of new technologies and other advancements. In service organizations these engineers may develop methods for optimal utilization of resources, such as doctors, nurses, and medical equipment in a hospital; determine the optimal number of communication lines and service level for a telephone company; participate in the development of a total quality management system for a bank, etc.

Mission Statement: The mission of the department is to provide a broad-based education in industrial and manufacturing engineering and to prepare students for a diversified career in industry, academia, government, and private sectors.

Program Educational Objectives: The educational objectives of the undergraduate Industrial Engineering Program are:

1. Graduates will have successful careers as professionals in industrial engineering or related fields.
2. Graduates contribute to improving efficiency, productivity, and/or quality of products manufactured or services provided by their organization.
3. Graduates demonstrate professionalism and continue their professional development.

Accreditation: The industrial engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

INDUSTRIAL ENGINEERING CURRICULUM

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in industrial engineering is 125. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Engineering Core Courses: 26 credits

EAS 200	Professional Seminar	1
Ind Eng 111	Introduction to Engineering*	3
Ind Eng 112	Engineering Drawing and Computer-Aided Design/Drafting*	3
Ind Eng 360	Engineering Economic Analysis	3
CompSci 240	Introductory Engineering Programming	3
Civ Eng 201	Statics	3
Civ Eng 202	Dynamics	3
MatlEng 201	Engineering Materials	4
ElecEng 301	Electrical Circuits I	3

Industrial Engineering Major: 36 credits

Ind Eng 350	Manufacturing Processes	3
Ind Eng 367	Introductory Statistics for Physical Science and Engineering Students	3
Ind Eng 370	Introduction to Operations Analysis	3
Ind Eng 455	Operations Research I	3
Ind Eng 465	Operations Research II	3
Ind Eng 470	Methods Engineering	3
Ind Eng 475	Simulation Methodology	3
Ind Eng 485	Senior Design Project	3
Ind Eng 571	Quality Control	3
Ind Eng 575	Design of Experiments	3
Ind Eng 580	Ergonomics	3
Ind Eng 583	Facility Layout and Material Handling	3

* MechEng 110 and 111 may substitute for Ind Eng 111 and 112 for transferring students.

Mathematics Requirement: 14-16 credits¹

One of the following Calculus sequences must be completed:

Math 231-232-233

or

Math 221-222 (Honors)

and

ElecEng 234 (Analytical Methods in Engineering)

Natural Science Requirement: 16-18 credits

Chem 102-104

or

Chem 105

and

Approved Natural Science Elective** (Minimum 3 credits)

Physics 209-210 (8 credits)

GER Distribution Requirement: 15 credits

Arts		3
Humanities		3
English 310	Writing, Speaking, and Technoscience in the 21st Century	3
Social Science		6

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

Free Electives: 4 credits

English Composition Requirement: 0-6¹

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test, or
2. Earning a grade of C or higher in English 102.

Foreign Language Requirement: 0-8 (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

1. Two years of a single foreign language in high school;
2. Two semesters of a single foreign language in college; or
3. Demonstrate ability by examination.

**** Approved Natural Science Elective Courses**

Atmospheric Science (100 level or above)

Biological Sciences (150 or above)

Physics (300 level or above)

Conservation and Environmental Sciences 210

Geosciences (100, 102, 150 or above)

Math (240, 300 or above)

¹ Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above. Possible math placements for engineering students are Math 090, 095, 105, 225, 116, 117, 231, or 221. Possible English placements are English 090, 095, 101, or 102. Possible chemistry placements are Chem 100, 102, or 105.

Technical Electives–Industrial Engineering Major. The industrial engineering program requires a total of 12 credits of technical electives, chosen from the following list. At least 6 credits must be in courses from the Industrial and Manufacturing Engineering Department.

Ind Eng 390	Senior Thesis	3
Ind Eng 405	Product Realization	3
Ind Eng 572	Reliability Engineering	3
Ind Eng 582	Ergonomic Job Evaluation Techniques	3
Ind Eng 584	Biodynamics of Human Motion	3
Ind Eng 587	Lean Production Systems	3
Ind Eng 590	Topics in Industrial and Systems Engineering	1-3
Ind Eng 699	Independent Study	1-3
EAS 1	1	3

MechEng 474/ ElecEng 474	Co-op Work Period Introduction to Control Systems	4
Bus Adm 330	Organizations	3
Bus Adm 473	Business Logistic Management	3
MechEng 301	Basic Engineering Thermodynamics	3

¹ This option is open only to students who earn 3 or more credits of Co-op.

Web Home Pages:

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Materials Science & Engineering

- Web Home Pages:
 - [College of Engineering & Applied Science](#)
 - [Materials Science & Engineering](#)
- Courses:
 - [Materials Engineering \(MATLENG\)](#)

In today's world there is a constant demand for new materials of superior quality or with particular combinations of properties. It is the task of the materials engineer to use chemical and physical processes to provide new materials, more useful and valuable products, and improvements in the properties of existing materials on a cost-effective basis.

Materials engineering, like other branches of engineering, is based on mathematics, physics, and chemistry.

Necessarily, the engineer must work with every type of material, whether it be metal, glass, plastic, or naturally occurring rock or wood; and electrical conductors, semiconductors, or insulators, transparent or otherwise. The variety of available materials is as wide as the applications; to use them to good effect, the engineer must understand the nature of the substances that might be used for a particular purpose and the chemical and physical processes that are involved in their production.

Being in a central position in the development and design of new products, the materials engineer has excellent and varied career opportunities, extending from fundamental research through primary production processes and subsequent manufacturing to quality control and failure analysis.

Mission Statement: The Materials Department is committed to provide comprehensive undergraduate and graduate education in Materials Engineering, outstanding research, and service to our students, College, the University of Wisconsin-Milwaukee, and the community, as well as to active participation in professional societies.

Program Educational Objectives: The educational objectives of the undergraduate Materials Engineering Program are:

1. Graduates have successful careers in materials engineering and/or related fields, including graduate education.
2. Graduates utilize their materials engineering knowledge to address contemporary issues for society.
3. Graduates apply their knowledge of materials engineering to problem solving and projects in their chosen field of employment.

Accreditation: The materials engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

Materials Minor. The Materials minor is directed toward students who want to strengthen their background in materials engineering. The 18-credit minor requires MatlEng 330, 402, and 451. Choose any three additional courses from the following list: MatlEng 380, 410, 411, 421, 431, 442, 455, 461, 465, 471, and 481. More information on the minor may be obtained from the Materials Department, (414) 229-5181.

MATERIALS ENGINEERING CURRICULUM

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in materials engineering is 124. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Engineering Core Courses: 24 credits

EAS 200	Professional Seminar	1
Ind Eng 367	Introductory Statistics for Physical Sciences and Engineering Students	3

CompSci 240	Introduction to Engineering Programming	3
Civ Eng 201	Statics	3
Civ Eng 202	Dynamics	3
Civ Eng 303	Strength of Materials	4
MatlEng 201	Engineering Materials	4
ElecEng 301	Electrical Circuits I	3
Materials Engineering Major: 28 credits		
MatlEng 330	Materials and Processes in Manufacturing	3
MatlEng 402	Physical Metallurgy	3
MatlEng 410	Mechanical Behavior of Materials	3
MatlEng 411	Materials Laboratory	3
MatlEng 442	Thermodynamics of Materials	3
MatlEng 443	Transport and Kinetics in Materials Processing	3
MatlEng 452	Ceramic Materials	3
MatlEng 453	Polymeric Materials	3
MatlEng 490	Senior Design Projects I	1
MatlEng 491	Senior Design Projects II	3

Mathematics Requirement: 14-16 credits¹

One of the following Calculus sequences must be completed:

Math 231-232-233

or

Math 221-222 (Honors)

and

ElecEng 234 (Analytical Methods in Engineering)

Chemistry Requirement: 5-10 credits¹

One of the following sequences must be completed:

Chem 105 (Suggested)

or

Chem 102-104

Physics Requirement: 10 credits

Physics 219-220

or

Physics 209-214 & 210-215

GER Distribution Requirement: 15 credits

Arts		3
Humanities		3
English 310	Writing, Speaking, and Technoscience in the 21st Century	3
Social Science		6

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

Free Electives: 4 credits

English Composition Requirement: 0-6 credits¹

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test, or
2. Earning a grade of C or higher in English 102.

Foreign Language Requirement: 0-8 (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

1. Two years of a single foreign language in high school;
2. Two semesters of a single foreign language in college; or
3. Demonstrate ability by examination.

¹ **Placement Examinations.** Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

Technical Electives – Materials Engineering Major. 24 credits of technical electives are to be selected from the following lists. At least 18 of the Technical Electives credits must be from Groups A1 and A2 as outlined below:

Group A1 Technical Electives (Structure): Select at least 2 courses:

MatlEng 380	Engineering Basics for Materials	3
MatlEng 461	Environmental Degradation of Materials	3
MatlEng 465/ MechEng 465	Friction and Wear	3
MatlEng 481	Electronic Materials	3
MatlEng 483	Materials for Energy Systems	3
MatlEng 485	Introduction to Biomaterials	3
MatlEng 511	Advanced Materials Characterization	3

Group A2 Technical Electives (Processing): Select at least 2 courses:

MatlEng 421	Metal Casting Engineering	3
MatlEng 431	Welding Engineering	3
MatlEng 455	Engineering Opposites	3
MatlEng 460	Nanomaterials and Nonmanufacturing	3
MatlEng 471	Engineering Composites	3

Group B Technical Electives: Select no more than 6 credits:

EAS 1	Co-op Work Period ¹	3
English 206	Technical Writing	3
Ind Eng 112	Engineering Drawing and Computer-Aided Design/Drafting	3
Ind Eng 360	Engineering Economic Analysis	3
Math 413	Introduction to Numerical Analysis	3
MatlEng 699	Independent Study	3
MechEng 110	Engineering Fundamentals I	4
MechEng 111	Engineering Fundamentals II	4
Any Physics course 250 level or above		

Chem 104 (3 credits), 221, and any Chemistry course 300 level or above

Any BME, Civ Eng, CompSci, ElecEng, Ind Eng, MechEng 300 level or above

Any Biology course 150 or above

Any Geoscience course 300 level or above

English 428, 429, 435

¹ Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.

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Mechanical Engineering

- Web Home Pages:
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- Courses:
 - [Mechanical Engineering \(MECHENG\)](#)

Mechanical engineering is one of the broadest and most general fields of engineering. Combining some of the basic elements found in electrical and civil engineering with more in-depth use of mechanical design and thermal science principles, a mechanical engineering education will provide its students with the tools required to solve a wide range of technological problems.

Mechanical engineers work on the design, development, analysis, production, and testing of a wide variety of devices, products, and systems. The devices and systems developed by mechanical engineers can be found in many fields, including energy conversion, power generation, environmental control, manufacturing, materials handling and processing, and transportation and construction equipment.

The mechanical engineering curriculum is based upon fundamental engineering science courses in mechanics, the thermal sciences, mechanical design, and controls. Students also take courses in experimentation, computer-aided engineering, vibrations, and mechatronics. A variety of technical elective courses are also offered. With these courses, a student can either pursue a general mechanical engineering education, or can tailor a program of study towards a concentration in either thermal sciences or mechanical systems.

Mission Statement: The mission of the UWM Mechanical Engineering Department is:

1. To provide quality educational programs for undergraduate and graduate students planning careers in mechanical engineering or related fields.
2. To create and disseminate knowledge through research, publications, and other scholarly activities.
3. To foster a close partnership with industry and government.
4. To engage in professional and academic service activities of value to the University and the community at large.

Program Educational Objectives: The educational objectives of the undergraduate Mechanical Engineering Program are:

1. Graduates have a successful professional career in Mechanical Engineering or related fields.
2. Graduates apply their knowledge of mechanical engineering to problem solving in their field of employment.
3. Graduates are recognized as creative problem solvers and effective communicators.
4. Graduates are successfully engaged in continued professional development.

Accreditation: The mechanical engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

Thermal sciences deals with the transformation of energy from one form to another, as well as the transmission and use of energy. Areas of interest in thermal sciences include (a) power generation through fossil-fueled steam power plants and solar energy, as well as design of heat exchangers and boilers, (b) propulsion systems, such as internal-combustion engines, for all types of vehicles, (c) heating, ventilation, and air conditioning systems, and (d) the environmental effects and control of pollutants produced in these applications.

Mechanical systems focuses on the synthesis, analysis, and optimization of different types of devices and machines. The scope of problems studied ranges from small individual components to automated factory systems using robots and

CNC tools. Designers must use imagination, ingenuity, and good judgment to create workable ideas and transform them into physical realities. Use of modern computational tools such as finite element methods, solid modeling, and CAD/CAM packages is emphasized. An understanding of industrial design practices and standards is also required.

A **general mechanical engineering** course of study may be desirable for students preferring the broadest background. The program consists of taking the basic courses required by all mechanical engineering students, and supplementing these courses with a range of technical electives that provide the student with background in key areas in thermal and mechanical systems.

Students should consult their advisors for help in choosing the most appropriate concentration and technical electives for their own interests. Suggested technical elective sequences for all three areas are outlined below.

It is recommended that students interested in thermal sciences take MechEng 402 and at least two courses from MechEng 415, 423, 432, 434, 435, 451, or 463.

It is recommended that students interested in mechanical systems take MechEng 463 and at least two courses from MechEng 461, 462, 475, 476, or 478.

It is recommended that students interested in general mechanical engineering take at least two courses from MechEng 402, 463, or 475.

Mechanical Engineering Minor

The minor in mechanical engineering is designed for students in engineering, architecture, and physics. The minor is not available to mechanical engineering majors. The minor requires 20 credits of coursework in 300-level or above courses in mechanical engineering. Students interested in obtaining the minor should contact the director of undergraduate studies for advice on the appropriate program of study, (414) 229-5191.

MECHANICAL ENGINEERING CURRICULUM

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in Mechanical Engineering is 128. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Engineering Core Courses: 34 credits

EAS 100/	Freshman Orientation or How Things Work	1-3
MechEng 150		
EAS 200	Professional Seminar	1
MechEng 101	Computational Tools for Engineers	2
MechEng 110	Engineering Fundamentals I	4
MechEng 111	Engineering Fundamentals II	4
Civ Eng 201	Statics	3
Civ Eng 202	Dynamics	3
Civ Eng 303	Strength of Materials	4
ElecEng 301	Electrical Circuits I	3
MatlEng 201	Engineering Materials	4
MechEng 301	Basic Engineering Thermodynamics	3
MechEng 320	Introduction to Fluid Mechanics	3

Mechanical Engineering Major: 33 credits

MechEng 321	Basic Heat Transfer	4
MechEng 323	Fluid Mechanics Laboratory	1
MechEng 330	Materials and Processes in Engineering	3
MechEng 360	Mechanical Design I	3
MechEng 366	Design of Machine Elements	4
MechEng 370	Computer-Aided Engineering Laboratory	2

MechEng 438	Mechanical Engineering Experimentation	3
MechEng 474	Introduction to Control Systems	4
MechEng 479	Control and Design of Mechatronic Systems	3
MechEng 405	Product Realization	3
or		
MechEng 496	Senior Design Project	3
Ind Eng 367	Introductory Statistics for Physical Science and Engineering Students	3

Mathematics Requirement: 14-16 credits¹

One of the following Calculus sequences must be completed:

Math 231-232-233

or

Math 221-222 (Honors)

and

ElecEng 234 (Analytical Methods in Engineering)

Chemistry Requirement: 5-10 credits¹

One of the following sequences must be completed:

Chem 105 (Suggested)

or

Chem 102-104

Physics Requirement: 10 credits

Physics 209 and 214

Physics 210 and 215

GER Distribution Requirement: 15 credits

Arts		3
Humanities		3
English 310	Writing, Speaking, and Technoscience in the 21st Century	3
Social Science		6

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

English Composition Requirement: 0-6 credits¹

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test, or
2. Earning a grade of C or higher in English 102.

Foreign Language Requirement: 0-8 (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

1. Two years of a single foreign language in high school;
2. Two semesters of a single foreign language in college; or
3. Demonstrate ability by examination.

¹ **Placement Examinations.** Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

MECHANICAL ENGINEERING MAJOR

The Mechanical Engineering Department regularly offers elective courses that allow students to concentrate in either energy engineering or mechanical design. While the College does not guarantee that specific electives will be offered annually, there will be a sufficient number offered to allow for one of these concentrations.

Technical Electives–Mechanical Engineering Major (15 Credits). Select a minimum of 15 credits of technical electives from Groups A, B, and C as indicated below.

Group A Technical Electives: Students must select at least 6 credits from this list.

MechEng 402	Thermal-Fluid Engineering	3
MechEng 420	Fluid Mechanics	3
MechEng 462	Intermediate Design of Machinery	3

MechEng 463	Introduction to Finite Elements	3
MechEng 475	Vibrations in Mechanical Design	3

Group B Technical Electives: Students may select up to 6 credits from this list.

Civ Eng 401	Intermediate Strength of Materials	3
MatlEng 380	Engineering Basis for Materials Selection	3
MatlEng 410	Mechanical Behavior of Materials	3
Ind Eng 455	Basic Optimization Techniques	3
Math 413	Introduction to Numerical Analysis	3
Math 601	Advanced Engineering Mathematics	3
MechEng 405	Product Realization	3
MechEng 411	Heat Transfer	3
MechEng 415	Modern Thermo Manufacturing Processes	3
MechEng 423	Applied Fluid Mechanics	3
MechEng 425	Aerodynamics of Wind Turbines	3
MechEng 430	Energy Modeling	3
MechEng 432	Internal Combustion Engines	3
MechEng 434	Air Conditioning System Design	3
MechEng 435	Power Plant Theory and Design	3
Mech Eng 436	Solar Engineering	3
MechEng 455	Processing of Plastics	3
MechEng 456	Metal Casting Engineering	3
MechEng 457	Engineering Composites	3
MechEng 460	Nanomaterials and Nanomanufacturing	3
MechEng 461	Intermediate Kinematics and Dynamics	3
MechEng 465	Friction and Wear	3
MechEng 466	Mechanics of Composite Materials	3
MechEng 469	Introduction to Biochemical Engineering	3
MechEng 472	Introduction to Wind Energy	3

MechEng 476	Introduction to Robotics	3
MechEng 490	Topics in Mechanical Engineering	1-3
MechEng 574	Intermediate Control Systems	3
MechEng 580	Engineering Analysis in Applied Mechanics	3
MechEng 584	Biodynamics of Human Motion	3
MechEng 699	Independent Study ¹	1-3

¹ Students who earn 3 or more credits of MechEng 699 may use only 3 of those credits as approved Free Technical Electives.

Group C Technical Electives: Take up to a maximum of 3 credits in this category.

Bus Adm 447	Entrepreneurship	3
EAS 100	Co-op Work Period	3
EAS 497	Study Abroad	3
Ind Eng 360	Engineering Economic Analysis	3
MechEng 490	Professional Development Topics	3
MechEng 542	Introduction to Technical Entrepreneurship	3
MechEng 543	Introduction to Technology Management and Innovation	3
MechEng 544	New Product Development	3
MechEng 546	Global Innovation Management	3
MechEng 548	Technology Venturing Project	3

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Biomedical Engineering

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- [Courses: Biomedical Engineering \(BME\)](#)

Biomedical engineering is a cross-disciplinary program that applies principles and methods from engineering, science, and technology to understand, define, and solve problems of life and medical sciences. Biomedical engineers design and manufacture devices and instrumentation such as electrocardiography, electroencephalography, and blood-flow monitoring systems, as well as electrical stimulators for muscles and nerves. These systems and devices assist medical specialists with diagnosis and treatment of patients. Biomedical engineers also design and manufacture therapeutic and prosthetic devices to improve the quality of life for individuals. These devices include cochlear and visual prosthesis, prosthetic fingers, joints, and limbs. Biomedical engineers are also involved in development of artificial/bionic pancreas, heart, eyes, and other human organs.

According to the United States Bureau of Labor Statistics, employment of biomedical engineers is projected to grow 23 percent from 2014 to 2024, much faster than the average for all occupations. Growing technology and its application to medical equipment and devices, along with an aging population, will increase demand for the work of biomedical engineers.

Student Learning Outcomes

Upon the completion of the program, a graduate of the program will be able to:

1. Apply principles of engineering, biology, human physiology, basic science, mathematics, and statistics.
2. Solve biomedical engineering problems, including those associated with the interaction between living and non-living systems.
3. Analyze, model, design, and realize biomedical engineering devices, systems, components, or processes, and make measurements and interpret data from living systems.
4. Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
5. Demonstrate an understanding of professional and ethical responsibility.
6. Demonstrate the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
7. Demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Biomedical Engineering Major. The minimum number of credits required to complete the Bachelor of Science in Biomedical Engineering is 120. Students who need background preparation courses in math, English, and foreign language may need additional credits

BIOMEDICAL ENGINEERING CURRICULUM

Engineering Core Courses: 26 credits

BME 101	Fundamentals of Biomedical Engineering	3
Civ Eng 201	Statics	3
Civ Eng 202	Dynamics	3
EAS 200	Professional Seminar	1
ElecEng 301	Electrical Circuits I	3
ElecEng 305	Electrical Circuits II	4
MatlEng 201	Engineering Materials	4
MechEng 101	Computational Tools for Engineers	2
MechEng 301	Basic Engineering Thermodynamics	3

Biomedical Engineering Major: 37 credits

Bio Sci 202	Anatomy and Physiology I	4
Bio Sci 203	Anatomy and Physiology II	4
Bio Sci 465 OR	Biostatistics	3
Ind Eng 367	Introductory Statistics for Physical Science and Engineering Students	3
BME 320	Engineering Biomedical Devices I	3
BME 325	Engineering Biomedical Devices II	3
BME 385	Introduction to Biomedical Materials	3
BME 495	Biomedical Instrumentation Lab	3
BME 595	Capstone Design Project	4
ElecEng 310	Signals and Systems	3
MechEng 469	Introduction to Biomechanical Engineering	3
MechEng 474	Introduction to Control Systems	4

Mathematics Requirement: 14 to 16 credits suggested***One of the following Calculus sequences must be completed:*

Math 231-232-233

or

Math 221-222 (Honors)

and

ElecEng 234 (Analytical Methods in Engineering)

Chemistry Requirement: 5 credits suggested***One of the following Chemistry sequences must be completed:*

Chem 102-104

or

Chem 105 (Suggested)

Physics Requirement: 10 credits

Physics 209 and 214

Physics 210 and 215

GER Distribution Requirement: 15 credits

Arts		3
Humanities		3
English 310	Writing, Speaking, and Technoscience in the 21st Century	3
Social Science		6

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

English Composition Requirement: 0-6 credits**

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test; or
2. Earning a grade of C or higher in English 102.

Foreign Language Requirement: 0-8 credits (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

1. Two years of a single foreign language in high school;
2. Two semesters of a single foreign language in college; or
3. Demonstrate ability by examination.

**** Placement Examinations.** Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

TECHNICAL ELECTIVES: BIOMEDICAL ENGINEERING MAJOR (16 credits)

The Biomedical Engineering program requires a total of 16 credits of technical electives, chosen from the following list:

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
Bio Sci 354	Introduction to Neuroscience I	3
Bio Sci 355	Introduction to Neuroscience II	3
BME 585	Advanced Biomaterials	3
BME 599	Senior Thesis	3
BME 690	Topics in Biomedical Engineering	3
BME 699	Independent Study	1-3
Bus Adm 447	Entrepreneurship	3
Chem 102	General Chemistry	5
Chem 104	General Chemistry and Quantitative Analysis	5
Chem 343	Organic Chemistry	3
Chem 344	Organic Chemistry Laboratory	2
Chem 345	Organic Chemistry	3
Civ Eng 303	Strength of Materials	4
CompSci 250	Introductory Computer Programming	3
EAS 001	Co-op Work Period	3
EAS 497	Study Abroad	3
ElecEng 361	Electromagnetic Fields	3
ElecEng 410	Principles of Discrete Systems and Digital Signal Processing	3
ElecEng 436	Introduction to Medical Instrumentation	3
ElecEng 437	Introduction to Biomedical Imaging	3
ElecEng 438	Bioanalytics and Biomedical Diagnostics	3

ElecEng 537	Fundamentals of Neuroimaging Technology	3
ElecEng 539	Introduction to Magnetic Resonance Imaging	3
Ind Eng 360	Engineering Economic Analysis	3
Ind Eng 584	Biodynamics of Human Motion	3
MechEng 320	Introduction to Fluid Mechanics	3
MechEng 370	Computer Aided Engineering Laboratory	2
OccThpy 593	Introduction to Biomedical and Rehabilitation Instrumentation	3
OccThpy 620	Introduction to Assistive and Rehabilitation Technology	3
OccThpy 625	Design and Disability	3
Physics 305	Medical Physics	3
Physics 306	Introduction to Biophysics	3
Psych 254	Physiological Psychology	3

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[School of Education](#)

Curriculum and Instruction

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- [Courses: Curriculum and Instruction \(CURRINS\)](#)

The goal of the Department of Curriculum and Instruction is to prepare PK–12 teachers who are able to provide maximum educational opportunities for children in the urban community.

At the undergraduate level, this department offers teacher education programs at the Early Childhood Level (grades PK-3), Middle Childhood Through Early Adolescence Level (grades 1-8), Early Adolescence Through Adolescence Level (grades 6-12), and Early Childhood Through Adolescence Level (PK-12).

The graduate program, which includes inservice education, is described in the University of Wisconsin-Milwaukee [Graduate School Bulletin](#) and in materials available in the Office of Student Services, Room 210, Enderis Hall.

Undergraduate students majoring in curriculum and instruction programs are initially enrolled as Education-Intended majors. They are advised in the School of Education and follow the curriculum requirements of their department program.

Early Childhood Education Program Requirements

The Early Childhood Education (ECE) program is available for those interested in teaching young children from birth to age 8 or third grade in a variety of early care/education and school programs. Students are admitted to the major immediately in the first year or upon transfer to UWM. Those who wish to acquire a State of Wisconsin teaching license can complete the state-mandated assessments through the program. Additionally, students can attain add-on certification in ECE and English as a Second Language (ESL) or Bilingual Education.

Sequenced Courses

Sequenced courses must be taken in the order indicated. Add additional courses with those listed under “Additional Course Requirements.”

Semester 1, 2, or 3

The English Composition and Math Skills requirements must be completed in the first year if placement testing allows the student to start with English 102 and Math 175 or in the second year if English 095 and/or 101 or Math 090 and/or 094/095 must be completed first.

English 102	College Writing and Research (with a C or better) or a 4 or higher on the English Placement Test (OWC-A)	0-3
Math 175	Mathematical Explorations for Elementary Teachers I (with a C or better) (QL-A)	3
CurrIns 140	Field Experience with Families and Communities	1
CurrIns 312	Introduction to Early Childhood Education	3
Semester 4		
CurrIns 240	Field Experience with Dual Language Learners	2
CurrIns 501	Language Acquisition for Children of Diverse Backgrounds	3
Semester 5		
CurrIns 302	Curriculum Design in Early Childhood	3
CurrIns 340	Field Experience in Preschool and Kindergarten Classrooms	2
CurrIns 502	Emergent Literacy and Biliteracy in the Early Childhood Classroom	3
CurrIns 534	Instructional Strategies in Early Childhood	3
Semester 6		
CurrIns 440	Field Experience in the Primary Grades	2
CurrIns 504	Teaching Reading and Writing in Early Childhood: The Primary Years	3
Semester 7		
CurrIns 338	Teaching of Science in Early Childhood	3
CurrIns 540	Advanced Field Experience in Early Childhood Education	3
CurrIns 541	Principles and Methods of Teaching ESL	3
Semester 8		

Choose one of the following options:

Option 1: Education Degree in Early Childhood

CurrIns 540	Advanced Field Experience in Early Childhood Education	6
	Electives as needed to reach 120 credits (See an advisor for appropriate options.)	

Option 2: Education Degree in Early Childhood plus Early Childhood Certification

CurrIns 601	Early Childhood Seminar for Student Teaching	3
CurrIns 640	Student Teaching in Early Childhood	12

Option 3: Education Degree in Early Childhood plus Early Childhood and English as a Second Language Certification

CurrIns 601	Early Childhood Seminar for Student Teaching	3
CurrIns 640	Student Teaching in Early Childhood	9
CurrIns 443	Student Teaching in English as a Second Language: Minor	3

Option 4: Education Degree in Early Childhood plus Early Childhood and Bilingual Certification

CurrIns 601	Early Childhood Seminar for Student Teaching	3
CurrIns 640	Student Teaching in Early Childhood	9
CurrIns 442	Student Teaching in Bilingual Education	3

Option 5: Education Degree in Early Childhood plus Early Childhood, English as a Second Language, and Bilingual Certification

CurrIns 601	Early Childhood Seminar for Student Teaching	3
CurrIns 640	Student Teaching in Early Childhood	6
CurrIns 442	Student Teaching in Bilingual Education	3
CurrIns 443	Student Teaching in English as a Second Language: Minor	3

Additional Required Courses:

The following courses may be taken any semester the prerequisites are met.

Arts (3 credits)

Choose a course in Art, Music, Theatre, Dance, or Film from this GER list: uwm.edu/schedule

	Art Elective (GER-A)	3
English and Humanities (9-12 credits)		
Commun 103	Public Speaking (with a C or better)	3
	Literature GER-H (See your advisor for a list of approved options.)	3
English 201	Strategies for Academic Writing (OWC-B)	3
or		
English 205	Business Writing (OWC-B)	3
Foreign Language (0-6 credits)		
Note: American Sign Language is accepted as a foreign language. See your advisor if English is not your first language. Not required if first semester as a freshman was prior to September 1999. Complete one:		
<ul style="list-style-type: none"> • 2 consecutive semesters of college instruction in a single foreign language (at least six credits) with passing grades; • 2 consecutive years of high school instruction in a single foreign language with passing grades; or • Language proficiency on approved exam. 		
Mathematics (3 credits)		
Math 176	Mathematical Explorations for Elementary Teachers II (with a C or better) (QL-B)	3
Natural Sciences (9 credits)		
Choose a GER-NS course from this list: uwm.edu/schedule		
One of the two electives must be a GER-NS with a lab.		
CES 210	Introduction to Conservation and Environmental Science	3
	Earth Science Elective (GER-NS: Astron, Atm Sci, Geog, and Geo Sci)	3
	Physical Science Elective (GER-NS: Chem or Physics)	3
Social Sciences (6 credits)		
Hist 151	American History, 1607–1877	3
or		
Hist 152	American History, 1877–present	3
or		
Pol Sci 104	Introduction to American Government and Politics	3
or		
Pol Sci 105	State Politics	3
	Social Sciences Elective (GER-SS) (See your advisor for options.)	3
Cultural Diversity and Act 31 Requirements (3 credits)		
Choose one:		
Anthro 213	American Indian Peoples of Wisconsin	3
English 276	Introduction to American Indian Literature: Literature, History, and Sovereignty of Upper Midwest Indians	3
AIS 203	Western Great Lakes American Indian Community Life of the Past	3
Hist 263	North American Indian History Since 1887	3
Professional Education Courses:		
CurrIns 301	Infants and Toddlers: Curriculum and Teaching	3
CurrIns 330	Teaching of Mathematics: Early Childhood	3
CurrIns 323	Teaching of Social Studies in Early Childhood	3
CurrIns/ExcEduc 612	Collaborations for Teachers with Families, Schools, and Communities	3
CurrIns 511	Curriculum and Guidance for Social Emotional Learning	3
CurrIns 512	Reflective Practice in Teaching and Learning	3
CurrIns 651	Literature for the Young Child (See advisor for alternative options.)	3
Art Ed 130	Art and Visual Learning in Elementary School	3
Mus Ed 260	Making Music Connections with Children	3
Ed Pol 375	Cultural Foundations of Education	3
Ed Psy 330	Introduction to Learning and Development	3

Ed Psy/ExcEduc 613 Infant/Early Childhood Assessment	3
ExcEduc 630 Survey of EC Intervention: Young Children with Special Needs, Families	3

A C or better must be earned in all professional education courses and sequenced CurrIns courses.

Benchmarks

Students must meet benchmarks at 30, 60, and 85 credits and prior to student teaching. Benchmarks are monitored through tracking systems and advising. A student will be restricted from moving forward in the program if the benchmarks are not completed.

30 Credit Benchmarks

Reviewed with your advisor the semester after completion of 30 credits

- **Mandatory meeting with your advisor**
- Completion of English 102 and Math 175 with a C or better
- Minimum cumulative GPA of 2.25 on all UWM and transfer courses

Certification majors only:

- Passing scores on a pre-professional skills test (See your academic advisor for additional information.)

60 Credit Benchmarks

Reviewed with your advisor the semester after completion of 60 credits

- **Mandatory meeting with your advisor**
- Minimum cumulative GPA of 2.5 on all UWM and transfer courses

Certification majors only:

- Registered for the appropriate Praxis II exam
 - Elementary Education Content Knowledge Exam #5014
 - Teaching English to Speakers of Other Languages #5361

85 Credit Benchmarks

Reviewed with your advisor the semester after completion of 85 credits

- **Mandatory meeting with your advisor**
- **Minimum cumulative GPA of 2.5 on all UWM and transfer courses**
- **Complete and sign form to declare intention: Education Degree in Early Childhood only or degree with certification in Early Childhood, ESL, and/or Bilingual**

Student Teaching Benchmarks (certification majors only)

- **Mandatory attendance at Pre-Student Teaching Orientation**
- **Minimum cumulative GPA of 2.75 on all UWM and transfer courses**
- **Removal of all F or I (Incomplete) grades in courses**
- **C or better in professional education and CurrIns sequenced courses**
- **Successfully pass the appropriate Praxis II exam(s)**
 - **Elementary Education Content Knowledge Exam #5014**
 - **Teaching English to Speakers of Other Languages #5361**
- **Successfully pass the Wisconsin Foundations of Reading Test (WiFORT).**

Graduation Benchmarks (must be met to be approved for graduation)

Reviewed during the student teaching semester

- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Satisfactory completion of a minimum of 120 credits
- Completion of the last year of coursework (30 credits) in residence at UWM

Certification majors only:

- Completion of edTPA (Teacher Performance Assessment)

Middle Childhood Through Early Adolescence Program Requirements

PROGRAM DESCRIPTION The Middle Childhood Through Early Adolescence (MCEA) Program is designed for students seeking to teach at the middle childhood-early adolescence level (ages 6-12 or -13, grades 1-8). This program prepares students to work in urban settings and takes place in close partnership with local school districts. The UWM School of Education's urban mission is upheld in the MCEA program's commitment to preparing pre-service teachers to meet the needs of diverse populations. Students are admitted into the MCEA program upon admission to the University, and it is possible to complete the program in four years. Students who satisfactorily meet program requirements will be recommended for student teaching. Upon successful completion of all student teaching requirements, including several state-required assessments, students will be licensed to teach grades 1-8. After completion of the MCEA program, students may opt to pursue an add-on certification in Exceptional Education by completing streamlined course paths that include an additional student teaching requirement.

Students completing the Middle Childhood Through Early Adolescence program will receive a bachelor's degree in Education, a Cultures and Communities certificate, and endorsement to be licensed to teach children in grades one through eight in the State of Wisconsin.

Special Education Certification. Students who successfully complete the MCEA program may seek dual licensure in special education, which requires a fifth year of school. Credits in the fifth year may be integrated into a master's program in Exceptional Education provided the student is admitted into the graduate program at UWM.

PROGRAM REQUIREMENTS. A C or better is required in all coursework. No courses may be taken for credit/no credit. Students must take at least one Cultures and Communities (C&C) course that has a "service learning" component. Note: All courses numbered 150 meet this requirement if taken during the spring or fall semesters.

PRE-PROFESSIONAL COURSEWORK

		Credits
Arts		
Theatre 260	Storytelling (only subtitles that meet Cultures and Communities Area IV will be accepted) (GER-A, CC-IV)	3
English		
English 102	College Writing and Research or a 4 or higher on the English Placement Test (OWC-A)	3
English 201	Strategies for Academic Writing (OWC-B)	3
Foreign Language		

Note: Not required if first semester as a freshman was prior to September 1999. American Sign Language is accepted as a foreign language. See your advisor if English is not your first language. Complete one:

- 2 consecutive years of high school instruction in a single foreign language
 - 2 consecutive semesters of college instruction in a foreign language
- At least 6

Language proficiency on approved exam

Humanities

CurrIns 233	Introduction to Children's and Young Adult Literature (GER-H)	3
Humanities elective (GER-H) or English elective (English minors only – see minor)		3

Mathematics

Math 175	Mathematical Explorations for Elementary Teachers I (QL-A)	3
Math 176	Mathematical Explorations for Elementary Teachers II (QL-B)	3

Natural Sciences

Physical science elective (Physics/Chem) – must include a lab		3+
CES 210	Introduction to Conservation and Environmental Science	3

Social Sciences (Courses that appear in **bold** are highly recommended.)

Hist 151	American History 1607–1877	3
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or

Hist 152	American History 1877–Present	3
Pol Sci 104	Introduction to American Government and Politics	3

or

Pol Sci 105	State Politics	3
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Cultural Diversity and Act 31 – Choose one:

Anthro 213	American Indian Peoples of Wisconsin	3
English 276	Introduction to American Indian Literature: Literature, History, and Sovereignty of Upper Midwest Indians	3

AIS 203	Western Great Lakes American Indian Community Life of the Past	3
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Hist 263	North American Indian History Since 1887	3
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Middle Childhood Through Early Adolescence courses

Ed Pol 375	Cultural Foundations of Education	3
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CurrIns 333	Introduction to Teaching in Urban Schools, Grade 1-8	3
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Ed Psy 330	Introduction to Learning and Development	3
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Gateway Check at 40 Credits Completed

- Mandatory meeting with advisor in the semester following 40-credit semester;
- Minimum cumulative GPA of 2.5 in required program courses (all courses listed on the program sheet);
- Passing scores on a pre-professional skills test (see your academic advisor for additional information);
- Completion of dispositions and field evaluation from CurrIns 333;
- Completion of Cultures and Communities requirements; and
- Completion of Math 175 and English 102 (or score of 4 or higher on English placement test).

PROFESSIONAL COURSEWORK

Semester 1

CurrIns 306	MCEA Clinical Experience, Grades 1-3	1
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CurrIns 536	Literacy 1: Assessing and Teaching Early Literacy	3
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CurrIns 556	Professional Seminar 1: Foundations of Curriculum and Instruction	3
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Ed Psy 325	Practice of Classroom Assessment	2
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ExcEduc 605	Child, Learner, Disability	3
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Semester 2

CurrIns 307	MCEA Clinical Experience II, Grades 4-8	2
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CurrIns 537	Literacy 2: Assessing and Teaching Literacy Through Early Adolescence	3
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CurrIns 541	Principles and Methods of Teaching ESL	3
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CurrIns 557	Professional Seminar 2: Classroom Management Theory, Practice, and Context	3
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Semester 3

CurrIns 406	Advanced MCEA Clinical Experience	4
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CurrIns 538	Literacy 3: Introduction to New Literacies	3
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CurrIns 558	Professional Seminar 3: Building Learning Communities	3
Any Semester Prior to Student Teaching		
Art Ed 130	Art and Visual Learning in Elementary School	3
CurrIns 320	Introduction to Critical Media Literacy	3
CurrIns 323	Teaching of Social Studies	3
CurrIns 327	Teaching of Science - Elementary School	3
CurrIns 331	Teaching of Mathematics, Elementary School	3
CurrIns 332	Teaching of Math, Middle School	3
Mus Ed 260	Making Music Connections through Children	3

Gateway Check Prior to Approval to Student Teach

- Minimum cumulative GPA of 2.75 in required courses (all courses listed on program sheet);
- Removal of all F or I (incomplete) grades in courses;
- C or better in required program courses (all courses listed on the program sheet);
- Passing scores on the Wisconsin Foundations of Reading Test (after semester 2);
- Completion of practice Teacher Performance Assessment (edTPA);
- Passing scores on the Praxis subject assessment posted on transcript (take during semester 2); and
- Completion of disposition and field evaluation in CurrIns 406.

A mandatory meeting with your academic advisor will be required if you have not met the above gateway checks.

Students pursuing a Bilingual or ESL minor are required to complete additional testing requirements. Please see your academic advisor for details.

Semester 4

CurrIns/ExcEduc 376	Understanding and Developing the edTPA	1
CurrIns 407	Student Teaching, Middle Childhood-Early Adolescence	9
CurrIns 471	Professional Seminar 4: The Effective Urban Educator	3

Additional Requirements for Graduation and Certification

- Minimum cumulative GPA of 2.75 in all UWM and transfer courses;
- Satisfactory completion of a minimum 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UWM; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

MINOR REQUIREMENTS

Select one minor from each group. Each minor requires a minimum of 18 credits.Â Pre-professional coursework can be used to meet minor requirements.Â All minor courses must be completed with a C or better.

Group A

Select one:

English/Language Arts

Social Studies

Bilingual

English as a Second Language (ESL)

Group B

Select one:

Math
Natural Science

Social Studies (Courses that appear in **bold** are highly recommended.)

Hist 151 **American History 1607–1877** **3**

or

Hist 152 American History 1877–present 3

Pol Sci 104 Introduction to American Government and Politics 3

or

Pol Sci 105 **State Politics** **3**

Hist 294 Seminar on Historical Method: Research Techniques 3

Geog 110 The World: Peoples and Regions 3

Choose one:

Hist 131 World History to 1500 3

Hist 202 The Ancient World: The Roman Republic and Empire 3

Choose one:

Hist 150 Multicultural America 3

UrbPlan 350 Social Justice, Urban Planning, and the New Multicultural America 3

Urb Std 150 Multicultural America 3

WGS 150 Multicultural America 3

English/Language Arts

English 150 Multicultural America 3

English 233 Introduction to Creative Writing 3

or

English 432 The Rhetoric of Argument 3

CurrIns 233 Introduction to Children’s and Young Adult Literature 3

English 445 The Composing Process 3

English 215 Introduction to English Studies 3

Choose one:

CompLit 208 Global Literature from the 17th Century to the Present 3

CompLit 230 Literature and Society 3

CompLit 231 Literature and Religion 3

CompLit 232 Literature and Politics 3

English 192 First Year Seminar: Multicultural Milwaukee 3

Jewish 261 Representing the Holocaust in Words and Images 3

English as a Second Language

CurrIns 541 Principles and Methods of Teaching ESL 3

CurrIns 542 History and Politics of Second Language Education 3

CurrIns 543 Developing Biliteracy 3

CurrIns 546 Language, Content, and Comprehensible Input 3

CurrIns 655 Applied Educational Linguistics 3

Bilingual

CurrIns 541 Principles and Methods of Teaching ESL 3

CurrIns 542 History and Politics of Second Language Education 3

CurrIns 543	Developing Biliteracy	3
CurrIns 546	Language, Content, and Comprehensible Input	3
CurrIns 655	Applied Educational Linguistics	3

Mathematics

Math 175	Mathematical Explorations for Elementary Teachers I	3
Math 176	Mathematical Explorations for Elementary Teachers II	3
Math 275	Problem Solving for Elementary Education Majors	3
Math 277	Geometry for Elementary Education Majors	3
Choose one:		
Math 205	Introductory Finite Mathematics	3
Math 276	Algebraic Structures for Elementary Education Majors	3
Choose one:		
Math/MthStat 278	Discrete Probability and Statistics for Elementary Education Majors	3
MthStat 215	Elementary Statistical Analysis	3

Science

CES 210	Introduction to Conservation and Environmental Science	3
Physical Science—Choose one (Courses that appear in bold are highly recommended.):		
Physics 185	Basic Physics for Teachers	3
Physics 107	Physics in Everyday Life	3
and		
Physics 108	Laboratory for Physics in Everyday Life	1
Physics 120	General Physics I	4
and		
Physics 121	General Physics Laboratory	1
Chem 101	Chemical Science	4
Chem 102	General Chemistry	5
Chem 106	Chemistry in the World Around Us – Chemistry for the Non-Science Major	3
Chem 185	Basic Chemistry for Teachers	3
Earth Science—Choose one (Courses that appear in bold are highly recommended.):		
Geo Sci 185	Introductory Earth Science for Teachers	3
Geo Sci 100	Introduction to the Earth (Do not take if you have taken Geo Sci 185.)	3
Geo Sci 102	Principles of Historical Geology	3
Biology: Choose one (Courses that appear in bold are highly recommended.):		
Bio Sci 185	Introductory Biology for Teachers	3
Bio Sci 102	Elements of Biology (Do not take if you have taken Bio Sci 185.)	3
Bio Sci 150	Foundations of Biological Science I	4
Science electives—Choose courses above or from the list below to total 18 credits in the science minor (Courses that appear in bold are highly recommended.):		
Astron 185	Astronomy for Pre-Education Majors	3
Astron 103	Survey of Astronomy	4
and		
Astron 104	Astronomy Laboratory	1
Atm Sci 100	Survey of Meteorology	3
Atm Sci 240	Introduction to Meteorology	3
Bio Sci 103	Topics in Modern Biology	3
Bio Sci 152	Foundations of Biological Science II	4
Chem 100	Chemical Science	3
Chem 103	Survey of Biochemistry	4
Chem 104	General Chemistry and Quantitative Analysis	5
Chem 105	General Chemistry for Engineering	5

CurrIns 525	Environmental Resources Workshop	1
CurrIns 570	Improving Science Teaching and Learning	1
CurrIns 565	Pedagogy Labs (Science only)	1
CurrIns 326	Environmental Education for Teachers	1
Geo Sci 208	Geology of Wisconsin	1
Geo Sci 105	Earth, Air, Fire, and Water	3
Geo Sci 106	The Earth Environment	3
Physics 110	Physics for the Health Professions	3
Physics 133	High Points of Physics for Beginners	3
Physics 209	Physics I	4
and		
Physics 214	Lab Physics I	1

Mathematics Education, Early Adolescence – Adolescence.

Students who successfully complete the mathematics program are eligible for a State of Wisconsin teaching certificate to teach mathematics in grades 6 to 12.

PROGRAM ADMISSIONS REQUIREMENTS

Application to the Mathematics Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at

<http://uwm.edu/education/academics/mathematics/>

- Basic skills test: Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, or GRE score must be within ten years of admission term to academic program. Please see your academic advisor for additional information.
- Oral and Written Communication (OWC) Part A: Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or equivalent with a grade of C or better.
- Quantitative Literacy (QL) Part A: Achieve a placement level of 30 or higher on the Math Placement Text, or complete Math 102, 103, 105, 108, 175, or an equivalent with a grade of C or better.
- Completion of CurrIns 300, Introduction to Teaching, or CurrIns 428, Introduction to Teaching Science in Middle and High School, with a grade of C or better.
- Completion of Commun 103 with a grade of C or better.
- A 2.5 minimum cumulative GPA in all UWM and transfer courses at the time of admission application.
- Completion of the following at the time of admission application: [Math 231, 232, and 233, or an equivalent sequence of calculus and analytical geometry] plus [Math 234 or Math 240 or equivalent courses] with a 2.75 GPA in these and all faculty-approved math courses 300 level and above.
- A minimum of 58 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- Meeting with faculty advisor to review admission application. Faculty signature required on application.

GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS

Completion of the coursework in this section will meet the general education requirements (GER) of the university. These requirements include Oral and Written Communication Competency, Quantitative Literacy Competency, Foreign Language, and Distribution Requirements. Please consult with the university GER requirements. Some programs specify courses to meet the university GER; please contact your academic advisor for information on required courses.

STATUTORY REQUIREMENTS

Act 31 Requirements. A component of the Human Relations Requirement for teacher certification is met by completing one of the following courses:

Anthro 213	American Indian Peoples of Wisconsin	3
English 276	Introduction to American Indian Literature: Literature, History, and Sovereignty of Upper Midwest Indians	3
AIS 203	Western Great Lakes American Indian Community Life of the Past	3
Hist 263	North American Indian History Since 1887	3

ELECTIVE COURSES

Select electives to ensure 128 credits at the time of graduation.

MATHEMATICS CONTENT AREA 33-34 credits

Required—Each of the following courses is required

Math 231 or 221	Calculus and Analytic Geometry I or Honors Calculus I	4
Math 232 or 222	Calculus and Analytic Geometry II or Honors Calculus II	4
Math 233	Calculus and Analytic Geometry (not required if MATH 221 and 222 have been taken)	4
Math 240 or 234	Matrices and Applications or Linear Algebra and Differential Equations	3/4
Math 341	Seminar: Introduction to the Language and Practice of Mathematics	3
Math 431	Modern Algebra with Applications	3
Math 451 or 453	Axiomatic Geometry or Transformations in Geometry	3
Math 675	Topics In Modern Mathematics: High School Mathematics from an Advanced Viewpoint	3

Mathematics electives—Select one of the following courses or see advisor:

Math 305 or 405	Intro to Mathematical & Computational Modeling or Mathematical Models & Applications	3
Math 313 or 315	Linear Programming & Optimization or Mathematical Programming & Optimization	3
Math 320	Introduction to Differential Equations	3
Math 321	Vector Analysis	3
Math 413	Introduction to Numerical Analysis	3
Math 417	Computational Linear Algebra	3
Math 451 or 453	Axiomatic Geometry or Transformations in Geometry	3
Math 521	Advanced Calculus	3
Math 535	Linear Algebra	3

Statistics—Select one of the following courses or see advisor:

Ind Eng 467	Introductory Statistics for Physical Sciences and Engineering Students	3
MthStat 465	Introductory Mathematical Statistics for Social Sciences and Education	3
MthStat 361 AND 362	Introduction to Mathematical Statistics I AND Introduction to Mathematical Statistics II	6

Please note: A sample four-year plan for Mathematics Education can be found at: uwm.edu/wp-content/uploads/2017/03/SOE_MathematicsEducationProgram_17_revised.pdf

If you intend to pursue a Mathematics second major, please consult your School of Education academic advisor.

Computer Science and Physics Area—8 credits:

Physics 209	Physics I (calculus treatment)	4
Physics 214	Lab Physics I (calculus treatment)	1
Computer Science 250	Introductory Computer Programming	3

PROFESSIONAL EDUCATION REQUIREMENTS

MACSTEP Sequence: Milwaukee Area Collaborative Secondary Science (and Math) Teacher Education Program. The following courses require formal admission to the School of Education. A grade of C or better is required for all professional requirements including student teaching.

Taken prior to MACSTEP sequence in Summer:

Ed Psy 330	Introduction to Learning and Development	3
Summer:		
CurrIns 332	Teaching Mathematics: Middle School	3
CurrIns 510	Cooperative Strategies for Pre- and Early Adolescents	2
CurrIns 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
CurrIns 629	Change and Change Strategies in Education	3
Ed Psy 541	Assessment in Science and Math I	1

Fall:

CurrIns 510	Cooperative Strategies for Pre- and Early Adolescents	1
CurrIns 516	Field Experience/Student Teaching in Middle School	3
CurrIns 532	Teaching of Mathematics: Secondary	3
Ed Psy 542	Assessment in Science and Math II	1
ExcEduc 536	Inclusion for Secondary Science and Math Educators	1
ExcEduc 537	Math and Science Methods for All Learners	1

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Office of Clinical Experiences website at <http://uwm.edu/education/academics/clinical-experiences/>.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- A minimum cumulative GPA of 2.5;
- A minimum GPA of 2.75 in all your mathematics content area courses and a minimum GPA of 2.75 in all your professional education courses;
- Passing scores reflected on your transcript for the Praxis II Subject Assessment exam: Mathematics: Content Knowledge #5161;
- Removal of all F or I (Incomplete) grades;
- TB test results submitted to the Office of Clinical Experiences; and
- Criminal Background Check submitted to the Office of Clinical Experiences.

Fall:

CurrIns 431	Student Teaching in Mathematics	9
CurrIns 432	Student Teaching Seminar Mathematics	3
Ed Psy 543	Assessment in Science and Math III	1
ExcEduc 538	Teaching Math and Science to All Learners	1

ADDITIONAL REQUIREMENTS FOR GRADUATION

- A minimum cumulative GPA of 2.5;
- A minimum GPA of 2.75 in all your mathematics content area courses and a minimum 2.75 GPA in all your professional education courses;
- Satisfactory completion of a minimum 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

English Education Program Requirements: Early Adolescence - Adolescence

Students who successfully complete the English Education program are eligible for a State of Wisconsin teaching certificate to teach English in grades 6-12.

PROGRAM ADMISSION REQUIREMENTS

Application to the English Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: <http://uwm.edu/education/academics/english/>.

- **Basic Skills Test:** Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.
- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete Math 103, 105, 175, or an equivalent with a grade of C or better.
- **Completion of CurrIns 300, Introduction to teaching,** with a grade of C or better.
- **Completion of Commun 103** with a grade of C or better. Note: Completion of Commun 103 will also fulfill part of your Humanities requirement.
- **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.
- **A 2.75 cumulative GPA** in all English content courses.
- **A minimum of 58 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- **Meeting with faculty advisor** to review admission application. Faculty signature required on application.

GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS

Completion of the coursework in this section will meet the general education requirements (GER) of the University. These requirements include Oral and Written Communication Competency, Quantitative Literacy Competency, Foreign Language, and Distribution Requirements. Please consult with the University GER requirements. Some programs specify courses to meet the University GER; please contact your advisor for information on required courses.

STATUTORY REQUIREMENTS

Act 31 Requirement. A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses or a one-day seminar.

Anthro 213	American Indian Peoples of Wisconsin	3
English 276	Introduction to American Indian Literature: Literature, History, and Sovereignty of Upper Midwest Indians	3
Ethnic 203	Western Great Lakes American Indian Community Life of the Past	3
Hist 263	North American Indian History Since 1886	3
Non-Western History or Contemporary Culture		
Non-Western History/Contemporary Culture (African, Latin American, Asian, Native American, etc.).		3
Suggested: Anthro 213, English 276, Ethnic 203, or Hist 263.		

ELECTIVE COURSE

Select an elective to ensure 128 credits at the time of graduation.

ENGLISH CONTENT AREA – 51 credits (including 8 GERs from Core Curriculum)

English 212	Grammar and Usage	3
English 215	Introduction to English Studies (GER)	3

Select one literature course (3 cr each) from the following:

CompLit 207 (GER), CompLit 208 (GER), CompLit 230 (GER), English 221-225 (all GER),
or English 269-281 (GER 276, 277)

English 233 Introduction to Creative Writing 3

Select one of the following courses:

English 201 Strategies for Academic Writing 3

or

English 208 Writing and Research 3

Advanced Writing Courses – 6 cr

English 430 Advanced Writing Workshop 3

Select one course from the following:

CurrIns 547 Curricular Applications of the Internet 3

English 440 Introduction to Peer Tutoring and Practice 3

English 445 The Composing Process 3

Advanced Linguistic Courses – 6 cr

Select one course from the following:

English 400 Introduction to English Linguistics 3

English 401 History of English Language 3

Linguis 350 Introduction to Linguistics 3

Select one course from the following:

English 403 Survey of Modern English Grammars 3

English 404 Language, Power, and Identity 3

Advanced Literature Courses – 24 cr

Survey I: Periodization/Historical

Select one course from the following:

English 301 Survey of English Literature, Beginnings to 1500 3

English 302 Survey of English Literature, 1500-1660 3

English 303 Survey of English Literature, 1660-1798 3

English 304 Survey of English Literature, 1798-1900 3

English 305 Survey of English Literature, 1900 to the Present 3

English 306 Irish Literature 3

English 307 American Literature to 1865 3

English 308 American Literature, 1865-1965 3

English 309 Contemporary American Literature 3

Survey II: Literature and Culture

Select one course from the following:

English 332 Gay and Lesbian Literature 3

English 372 Survey of American Indian Literature (GER) 3

English 373 Survey of Ethnic Minority Literature (GER) 3

English 374 Survey of U.S. Latino/a Literature 3

English 375 Survey of Asian-American Literature 3

English 376 Survey of African-American Literature to 1930 3

English 377 Survey of African-American Literature, 1930-Present 3

English 379 LGBT Literature 3

English 381 World Literatures Written in English 3

English 463 Writers in African-American Literature 3

Genre

Select one course from the following:

English 326 The Development of the Novel 3

English 327 The Development of the Short Story 3

English 328 Forms of Experimental Literature 3

English 329 Film and Literature 3

English 341 The Development of Drama 3

English 361 The Development of Poetry 3

Young Adult Literature

CurrIns 650 Reading Interests of Adolescents 3

Literary Critical Theory

Select one course from the following:

English 378 Survey of Literary and Cultural Theory 3

English 545 Studies in the History of Literary Criticism 3

English 547 Studies in Theory and Criticism 3

English 626 Seminar in Critical Theory 3

Focus

Select one course from the following:

English 451 Chaucer 3

English 452 Shakespeare 3

English 454 Milton 3

English 456 Writers in English Literature, 1500-1660 3

English 457 Writers in English Literature, 1660-1798 3

English 458 Writers in English Literature, 1798-1900 3

English 459 Writers in English Literature, 1900 to the Present 3

English 460 Writers in American Literature, 1800-1900 3

English 461 Writers in American Literature, 1900 to the Present 3

English 464 Women Writers 3

Capstone Course I: Historical Concentration

Select one of the following:

English 500 Studies in Medieval and Early Modern Literature 3

English 501 Studies in Literature, 1500-1600 3

English 504 Studies in Literature, 1660-1800 3

English 505 Studies in Literature, 1800-1900 3

English 507 Studies in Literature, 1900 to the Present (GER) 3

English 530 Studies in Shakespeare 3

English 621 Seminar in the Literature of England 3

English 623 Seminar in American Literature 3

English 624 Seminar in Modern Literature 3

English 625 Seminar in Literary History 3

English 685 Honors Seminar (GER) 3

Capstone Course II: Literature and Culture

Select one of the following:

English 514 Literature in Context 3

English 515 Literature and the Other Arts 3

English 517 Studies in African-American Literature 3

English 518 Studies in Irish Literature 3

English 519 Studies in Irish-American Literature 3

English 520 Studies in American Indian Literature 3

English 521 Studies in Ethnic Minority Literature 3

English 522 Studies in World Literature Written in English 3

English 523 Studies in U.S. Latino/a Literature 3

English 524 Studies in Asian-American Literature 3

English 627 Seminar in Literature and Culture 3

English 628 Seminar in Literature by Women 3

English 629 Seminar in Literature and Sexuality 3

English 630 Seminar in Literature and Other Arts 3

English 631 Seminar in African American Literature 3

English 632 Seminar in American Indian Literature 3

PROFESSIONAL EDUCATION REQUIREMENTS: 40-42 cr

The following courses may be taken **prior to** admission to the School of Education:

Select one of the following two courses (3 cr each):

Ed Pol 375	Cultural Foundations of Education	
Ed Pol 530	Urban Education Foundation	
Ed Psy 330	Introduction to Learning Development	3
CurrIns 510	Cooperative Strategies for Pre- and Early Adolescents (English-only spring section)	1
CurrIns 657	Approaches to Teaching and Assessing Texts in the Secondary School (Offered only during the spring semester. Prereq for CurrIns 658. Take 657 and 658 in sequential semesters.)	3
CurrIns 659	Teaching and Assessing Grammar to Enrich Writing	2

The following courses may be taken only **after** admission to the School of Education:

ExcEduc 531	Inclusion for Secondary Educators	3
CurrIns 545	Reading in the Content Area: Middle, Junior, and Senior High School	3

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: English Language Art: Content Knowledge #5038;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences;
- Criminal Background Check submitted to the Office of Clinical Experiences; and
- Completion of CurrIns 316 (English), 415 (English), 510 (English), 650, 657, 658, and 659 with a C+ or better.

Taken as a block in the fall of the final academic year:

CurrIns 658	Teaching and Assessing of English (prerequisite CurrIns 657)	3
CurrIns 516	Field Work in Middle School	5
CurrIns 510	Cooperative Strategies for Pre- and Early Adolescents (English-only fall section)	2

Taken in the spring semester of the final academic year:

CurrIns 452	Student Teaching in English	10-12
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ADDITIONAL REQUIREMENTS FOR GRADUATION

- Completion of CurrIns 452 with a C+ or better;
- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Satisfactory completion of a minimum 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

Science Education Program Requirements: Early Adolescence – Adolescence

Students who successfully complete the science program are eligible for a State of Wisconsin teaching certificate to teach science in grades 6 to 12.

PROGRAM ADMISSION REQUIREMENTS

Application to the Science Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: <http://uwm.edu/education/academics/science/>.

- **Pre-Professional Skills Test:** Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.
- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete Math 103, 105, 175, or an equivalent with a grade of C or better.
- **Completion of CurrIns 328, Introduction to teaching Science in Middle and High School,** with a grade of C or better.
- **Completion of Commun 103** with a grade of C or better. Note: Completion of Commun 103 will also fulfill part of your Humanities requirement.
- **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.
- **A 2.75 cumulative GPA** in all Science content courses.
- **A minimum of 58 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- **Meeting with faculty advisor** to review admission application. Faculty signature required on application.

GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS

Completion of the coursework in this section will meet the general education requirements (GER) of the University. These requirements include Oral and Written Communication Competency, Quantitative Literacy Competency, Foreign Language, and Distribution Requirements. Please consult with the University GER requirements. Some programs specify courses to meet the University GER; please contact your academic advisor for information on required courses.

STATUTORY REQUIREMENTS

Act 31 Requirement. A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses or a one-day seminar.

Anthro 213	American Indian Peoples of Wisconsin	3
English 276	Introduction to American Indian Literature: Literature, History, and Sovereignty of Upper Midwest Indians	3
Ethnic 203	Western Great Lakes American Indian Community Life of the Past	3
Hist 263	North American Indian History Since 1887	3

Non-Western History or Contemporary Culture

Non-Western History/Contemporary Culture (African, Latin American, Asian, Native American, etc.). Suggested: Anthro 213, English 276, Ethnic 203, or Hist 623

Conservation of Natural Resources – Three credits required.

Select one of the following:

CES 471	Principles of Natural Resource Management	3
CES 210	Introduction to Conservation and Environmental Science	3
Geog 350	Conservation of Natural Resources	3

History and Philosophy of Science – Two to three credits required.

Select one of the following (each course is 3 cr):

Hist 226, 227, 332; Philos 213, 324, 335, 338, 520; Bio Sci 220; or Chem 502

Required Math Elective Courses

MathStat 215	Elementary Statistical Analysis	3
Math	Elective	3

ELECTIVE COURSES

Select electives to ensure 128 credits at the time of graduation. Two must be in mathematics.

SCIENCE CONTENT AREA

The selection of at least one major and one minor (highly suggested) should be made in consultation with the faculty advisor prior to applying for admission to the School of Education.

Majors: Must select one.

- Biology
- Broad Field Science (See below.)
- Chemistry
- Earth and Space Science
- Environmental Studies
- Life and Environmental Science
- Physical Science
- Physics

Minors

- Biology
- Earth and Space Science
- Chemistry
- Physics

Contact your faculty advisor for the "MACSTEP Program Packet" for course lists and specific details regarding the majors and minors.

The Broad Field Science major consists of 54 credits in science, including:

- 14 credits in each of two of the following sciences: biology, chemistry, earth, and physics;
- 8 credits in each of the remaining science areas; and
- Electives to be selected in consultation with a faculty advisor.

Note: Broad Field Science majors can earn a certification in another subject (biology, chemistry, physics, and earth and space science) if they have 15 credits in that subject area.

PROFESSIONAL EDUCATION REQUIREMENTS

MACSTEP Sequence: Milwaukee Area Collaborative Secondary Science (and Math) Teachers Education Program. It is important to meet with your faculty advisor in planning this sequence. All of the MACSTEP courses require formal admission to the School of Education.

Summer

CurrIns 510	Cooperative Strategies for Pre- and Early Adolescents	2
CurrIns 518	Science Methods I	3
CurrIns 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
CurrIns 629	Change and Change Strategies in Education	3

Ed Psy 541	Alternative Assessment in Science and Math	1
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Fall

CurrIns 510	Cooperative Strategies for Pre- and Early Adolescents	1
CurrIns 516	Field Experience/Student Teaching in Middle School	3
CurrIns 519	Science Methods II	6
Ed Psy 542	Alternative Assessment in Science and Math II	1
ExcEduc 536	Inclusion for Secondary Science Educators	1
ExcEduc 537	Math and Science Methods for All Learners	1

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your science content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: General Science: Content Knowledge #10435;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences; and
- Criminal Background Check submitted to the Office of Clinical Experiences.

Spring

CurrIns 427	Student Teaching in Secondary Science	5-6
CurrIns 427	Student Teaching in Secondary Science	5-6
Ed Psy 543	Alternative Assessment in Science and Math III	1
ExcEduc 538	Teaching Math and Science to All Learners	1

ADDITIONAL REQUIREMENTS FOR GRADUATION

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Satisfactory completion of a minimum 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

Social Studies Education Program Requirements: Early Adolescence - Adolescence

Students who successfully complete the social studies program are eligible for a State of Wisconsin teaching certificate to teach social studies in grades 6-12.

PROGRAM ADMISSION REQUIREMENTS

Application to the Social Studies program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: <http://uwm.edu/education/academics/social-studies/>.

- **Pre-Professional Skills Test:** Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or

GRE, ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.

- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete Math 105 or an equivalent with a grade of C or better.
- **Completion of CurrIns 300, Introduction to Teaching,** with a grade of C or better.
- **Completion of Commun 103** with a grade of C or better.
- **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.
- **A 2.75 cumulative GPA** in all economics, geography, history, psychology, political science, and sociology courses.
- **A minimum of 58 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- **Meeting with faculty advisor** to review admission application. Faculty signature required on application.

GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS

All undergraduate students must complete the general education requirements (GER) of the University. These requirements include Oral and Written Communication Competency, Quantitative Literacy Competency, Foreign Language, and Distribution Requirements. Please consult with the University GER requirements, uwm.edu/schedule. Some programs specify courses to meet the University GER; please contact your academic advisor for information on required courses.

STATUTORY REQUIREMENTS

Act 31 Requirement. A component of the Human Relations Requirement for Teacher Certification must be met by completing one of the following courses or a one-day seminar.

Anthro 213	American Indian Peoples of Wisconsin	3
English 276	Introduction to American Indian Literature: Literature, History, and Sovereignty of Upper Midwest Indians	3
Ethnic 203	Western Great Lakes American Indian Community Life of the Past	3
Hist 263	North American Indian History Since 1887	3

Non-Western History or Contemporary Culture

Non-Western History/Contemporary Culture (African, Latin American, Asian, Native American, etc.). Suggested: Anthro 213, English 276, Ethnic 203, or Hist 263.

Conservation of Natural Resources. Three credits required.

CES 210	Introduction to Conservation and Environmental Science	3
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Note: Other statutory requirements are met through other program experiences.

Prerequisite Courses

One of the following courses is required to meet the prerequisite for CurrIns 313, Teaching Economics in the Social Studies Curriculum.

Econ 103	Principles of Microeconomics	3
Econ 104	Principles of Macroeconomics	3

Select one of the following:

Ed Pol 375	Cultural Foundations of Education	3
Ed Pol 530	Urban Education: Foundations	3

Social Studies Content Area

Students must complete 36 credits in one social studies field (18 credits must be 300-level or higher coursework), 12 credits in a second social studies field, and 12 credits in a third social studies field (12 credits of the total 24 in the second and third social studies field must be 300-level or higher coursework). See advisor for specific course

and distribution requirements for chosen major.

Fields of study include economics, geography, history, psychology, political science, and sociology.

See advisor for specific course and distribution requirements of chosen fields of study.Â

Specific course and distribution requirements can be found at <http://uwm.edu/education/academics/social-studies/>.

PROFESSIONAL EDUCATION REQUIREMENTS

After admission to the program, the following sequencing of courses is recommended.

Spring Semester (15 credits)

CurrIns 313	Teaching Economics in the Social Studies Curriculum	2
CurrIns 321	Introduction to the Teaching of Social Studies	1
CurrIns 510	Cooperative Strategies for Pre- and Early Adolescents	3
CurrIns 516	Field Work in Middle School	3
Ed Psy 330	Introduction to Learning Development	3
ExcEduc 531	Inclusion for Secondary Educators	3

Fall Semester (14 credits)

CurrIns 323	Teaching of Social Studies: Secondary	3
CurrIns 415	Preliminary Student Teaching	6
CurrIns 545	Reading in the Content Area: Middle, Junior, and Senior High School	3
Ed Psy 320	Principles for Classroom Appraisal and Evaluation	2

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your social studies content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: Social Studies: Content Knowledge #5081;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences; and
- Criminal Background Check submitted to the Office of Clinical Experiences.

Spring Semester

CurrIns 423	Student Teaching in Social Studies	10-12
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ADDITIONAL REQUIREMENTS FOR GRADUATION

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Satisfactory completion of a minimum 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

Note: Not all courses are offered every semester.

Early Childhood Through Adolescence Level Language Education

The purpose of the Early Childhood Through Adolescence Language Education program is to prepare teachers for working with children from birth to age 21 in the areas of bilingual education, English as a Second Language (ESL), and World Languages. Students who successfully complete the language education program for the ESL or World Languages major are recommended by the Department for licensure and are eligible for the State of Wisconsin Teaching Certificate at the Early Childhood Through Adolescence Level (birth through age 21). Students in Early Childhood (EC), Middle Childhood Through Early Adolescence (MCEA), Early Adolescence Through Adolescence (EAA), and Early Childhood Through Adolescence (ECA) education may complete a minor for certification in bilingual, ESL, or World Languages for certification at the same level as their major certification.

Bilingual Education Program Requirements (Supplemental Certification)

The University of Wisconsin-Milwaukee offers coursework for a supplemental certification in Bilingual Education. This minor is designed for individuals who wish to teach in a classroom in which two languages (English and another language) are used for instruction. Students wishing to pursue this certification must be in process of or already have a certification. To obtain a Bilingual Education supplemental certification, students must meet the following requirements.

PROFESSIONAL EDUCATION REQUIREMENTS

CurrIns 503	Assessment Issues in Language Education	3
CurrIns 541	Principles and Methods of Teaching ESL	3
CurrIns 542	History and Politics of Second Language Education	3
CurrIns 543	Developing Biliteracy	3
CurrIns 546	Language, Content, and Comprehensible Input	3
CurrIns 655	Applied Educational Linguistics	3
CurrIns 442	Student Teaching in Bilingual Education	3
CurrIns 445	Seminar in Language Education (Not required for students currently completing a portfolio in their major certification.)	3

Foreign Language Proficiency Requirement. Demonstration of foreign language proficiency is required for all prospective language teachers. Submit scores from your language department proficiency test to the academic advisor for languages prior to student teaching. A minimum score of Advanced-Low on the ACTFL OPI or equivalent is required prior to student teaching.

ADDITIONAL REQUIREMENTS FOR CERTIFICATION

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Undergraduate students must meet the graduation requirements for their primary certification; and
- Program Portfolio. Students complete a program portfolio based on the 10 WI Teacher Standards.

ENGLISH AS A SECOND LANGUAGE PROGRAM REQUIREMENTS – Major to Teach Grades PK-12

A teaching certification in English as a Second Language (ESL) is for those who wish to teach English to non-native speakers.

PROGRAM ADMISSION REQUIREMENTS

Application to the English as a Second Language program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at:

<http://uwm.edu/education/academics/second-language/>.

- **Pre-Professional Skills Test:** Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.
- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete Math 103, 105, 175, or an equivalent, with a grade of C or better. **Note:** Math 103 or 105 are recommended as they also meet core curriculum requirements.
- **Completion of CurrIns 300, Introduction to Teaching,** with a grade of C or better.
- **Completion of Commun 103** with a grade of C or better.
- A **2.5 minimum GPA** in all English as a Second Language content courses.
- A **minimum of 48 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.

GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS

Completion of the coursework in this section will meet the general education requirements (GER) of the University. These requirements include Oral and Written Communication Competency, Quantitative Literacy Competency, Foreign Language, and Distribution Requirements. Please consult with the University GER requirements. Some programs specify courses to meet the University GER; please contact your academic advisor for information on required courses.

PL 34 STATUTORY REQUIREMENTS

Act 31 Requirement. A component of the Human Relations Requirement for Teacher Certification must be met by completing one of the following courses or a one-day seminar.

Anthro 213	American Indian Peoples of Wisconsin	3
English 276	Introduction to American Indian Literature: Literature, History, and Sovereignty of Upper Midwest Indians	3
Ethnic 203	Western Great Lakes American Indian Community Life of the Past	3
Hist 263	North American Indian History Since 1887	3

Non-Western History or Contemporary Culture

Non-Western History/Contemporary Culture (African, Latin American, Asian, Native American, etc.). Suggested:

Anthro 213, English 276, Ethnic 203, or Hist 263.

ELECTIVE COURSES

Select electives to ensure 128 credits at the time of graduation.

ENGLISH AS A SECOND LANGUAGE CONTENT AREA – 36 cr Recommended Sequence:

Select one of the following two courses:		3
English 400	Introduction to English Linguistics	
Linguis 350	Introduction to Linguistics	
English 402	Theories of Language and Literature (writing emphasis)	3
English 403	Survey of Modern English Grammar	3
Linguis 410	Linguistics and Grammar in ESL Education	3
Linguis 420	Introduction to Second Language Acquisition	3
Select one of the following two courses:		3
English 404	Language, Power, and Identity	

Linguis 430	Language and Society	
English 567	Materials for ESL Instruction	3
CurrIns 541	Principles and Methods of Teaching ESL	3
CurrIns 542	History and Politics of Second Language Education	3
CurrIns 543	Developing Biliteracy	3
CurrIns 546	Language, Content, and Comprehensible Input	3
CurrIns 655	Applied Educational Linguistics	3

PROFESSIONAL EDUCATION REQUIREMENTS

A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.

Select one of the following: 3

Ed Psy 330	Introduction to Learning and Development	
Ed Psy 631	Cognition: Learning, Problem Solving, and Thinking	
Ed Psy 640	Human Development: Theory and Research	

Select one of the following: 3

ExcEduc 300	The Exceptional Individual	
ExcEduc 531	Inclusion for Secondary Education	
ExcEduc 600	Survey of Exceptional Education	
ExcEduc 605	Child, Learner, Disabilities	

Select one of the following: 3

CurrIns 504	Teaching Reading and Writing in Early Childhood	
CurrIns 544	Improvement in the Teaching of Reading	
CurrIns 545	Reading in the Content Areas: Middle, Junior, and Senior High School	
CurrIns 503	Assessment Issues in Language Education	3

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all coursework. An exception to allow a student to take a course concurrently with student teaching requires approval of the student's faculty advisor;
- Cumulative GPA of a minimum 2.5;
- A minimum 2.75 in all your content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: English to Speakers of Other Languages: Content Knowledge #5361;
- Removal of all F or I (incompletes) grades; and
- TB test results submitted to the Office of Clinical Experiences.

CurrIns 444	Student Teaching in ESL, EC-A	10
CurrIns 445	Seminar in Language Education	3

ADDITIONAL REQUIREMENTS FOR GRADUATION AND CERTIFICATION

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Satisfactory completion of a minimum 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee;
- Program Portfolio. Students complete a program portfolio based on the 10 WI Teacher Standards; and

- Completion of edTPA (Teacher Performance Assessment) required for certification.

ENGLISH AS A SECOND LANGUAGE PROGRAM REQUIREMENTS - Minor

A teaching certification in English as a Second Language (ESL) is for those who wish to teach English to non-native speakers. Students wishing to pursue a minor in ESL must be in the process of obtaining or already have a certification to teach at the Early Childhood, Early Childhood Through Adolescence, Middle Childhood Through Early Adolescence, or Early Adolescence Through Adolescence level.

CurrIns 503	Assessment Issues in Language Education	3
CurrIns 541	Principles and Methods of Teaching ESL	3
CurrIns 542	History and Politics of Second Language Education	3
CurrIns 543	Developing Biliteracy	3
CurrIns 546	Language, Content, and Comprehensible Input	3
CurrIns 655	Applied Educational Linguistics	3

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all coursework. An exception to allow a student to take a course concurrently with student teaching requires approval of the student's faculty advisor;
- Cumulative GPA of a minimum 2.5;
- A minimum 2.75 in all your content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: English to Speakers of Other Languages: Content Knowledge #5361;
- Removal of all F or I (incompletes) grades; and
- TB test results submitted to the Office of Clinical Experiences.
- Criminal Background Check submitted to the Office of Clinical Experiences.

CurrIns 443	Student Teaching in English as a Second Language	3
CurrIns 445	Seminar in Language Education (Not required for students who are currently completing a portfolio in their major certification.)	3

ADDITIONAL REQUIREMENTS FOR CERTIFICATION

- A minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Undergraduate students must meet the graduation requirements for their primary certification; and
- Program Portfolio. Students complete a program portfolio based on the 10 WI Teacher Standards.

World Languages Program Requirements - Major to Teach Grades PK-12

PROGRAM ADMISSION REQUIREMENTS

Application to the World Languages program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at <http://uwm.edu/education/second-language/>.

- **Pre-Professional Skills Test:** Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.
- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete Math 103, 105, 175, or an equivalent, with a grade of C or better. **Note:** Math 103 or 105 are recommended as they also meet core curriculum requirements.
- **Completion of CurrIns 300, Introduction to Teaching,** with a grade of C or better.
- **Completion of Commun 103** with a grade of C or better.
- A **2.5 minimum GPA** in all UWM and transfer courses at the time of admission application.
- A **2.75 cumulative GPA** in all language content courses.
- A **minimum of 48 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.

GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS

Completion of the coursework in this section will meet the general education requirements (GER) of the University.

PL 34 STATUTORY REQUIREMENTS

Act 31 Requirement. A component of the Human Relations Requirement for Teacher Certification must be met by completing one of the following courses or a one-day seminar.

Anthro 213	American Indian Peoples of Wisconsin	3
English 276	Introduction to American Indian Literature: Literature, History, and Sovereignty of Upper Midwest Indians	3
Ethnic 203	Western Great Lakes American Indian Community Life of the Past	3
Hist 263	North American Indian History Since 1887	3

Non-Western History or Contemporary Culture

Non-Western History/Contemporary Culture (African, Latin American, Asian, Native American, etc.). Suggested: Anthro 213, English 276, Ethnic 203, or Hist 263.

ELECTIVE COURSES

Select electives to ensure 128 credits at the time of graduation.

AMERICAN SIGN LANGUAGE CONTENT AREA

Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

CHINESE CONTENT AREA – 30 cr (plus any prereqs)

Chinese 301	Fifth Semester Chinese	3
Chinese 302	Sixth Semester Chinese	3
Chinese 401	Seventh Semester Chinese	3
Chinese 402	Eighth Semester Chinese	3
Chinese 200	Chinese Calligraphy	3
Select five of the following from at least three different departments:		
Chinese 310	Business Chinese	3
Chinese 320	Contemporary Chinese Societies Through Film	3
Chinese 699	Advanced Independent Study	3
CompLit 363	Chinese Literature in the Global Context	3
Geog 332	China: Peoples, Regions, and Development	3
Hist 376	History of Ancient China, Earliest Times to 220 AD	3
Hist 377	Modern China	3

Hist 378	Revolution in China	3
ArtHist 382	Chinese Art and Architecture	3
ArtHist 480	Chinese Painting	3
FRENCH CONTENT AREA – 30 cr (plus any prereqs)		
French 324	Contemporary French Language and Culture	3
French 325	Intensive Grammar and Usage	3
French 332	Approaches to Poetry and Fiction	3
French 392	Phonetics	3
French 426	Growing Up French	3
Select three of the following:		
French 427	Advanced Written Expression	3
French 431	Seminar in Literature of the Francophone World	3
French 432	Seminar in French and Francophone Culture	3
French 433	Seminar in French Literature	3
French 450	Institutions and Culture of Contemporary France	3
French 451 (351)	Cinema of the French-Speaking World	3
French 510	Seminar in Masterpieces of Literature Written in French	3
French 592	Seminar in French Language	3
Select two of the following:		
French 428	Castles, Cathedrals, and Common People	3
French 429	Royalty, Reason, and Revolution	3
French 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries	3
GERMAN CONTENT AREA – 30 cr (plus any prereqs)		
German 331	Intermediate German Grammar and Usage	3
German 332	Intermediate Conversation and Composition	3
German 333	Analysis of German Texts	3
German 334	Introduction to German Literature and Culture	3
400-Level or Higher	German Literature Elective	3
400-Level or Higher	German Literature Elective	3
400-Level or Higher	German Literature Elective	3
400-Level or Higher	German Literature Elective	3
German 626 (526)	Advanced German Grammar and Usage	3
German 671	Seminar on Phonetics	3
HEBREW CONTENT AREA		
Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.		
ITALIAN CONTENT AREA – 30 cr (plus any prereqs)		
Italian 310	Italian Immersion	1
Italian 310	Italian Immersion	1
Italian 310	Italian Immersion	1
Italian 311	Advanced Conversation and Composition*	3
Italian 311	(Change in Topic)	3
Italian 312	Contemporary Italian Language and Culture*	3
Italian 312	(Change in Topic)	3
Italian 321	Introduction to Italian Literature	3
Italian 322	Introduction to Italian Literature and Film	3
Italian 357	Topics in Italian Culture in Translation	3
Italian 457	Topics in Italian Literature and Culture in Translation	3
Select one of the following courses:		
Italian 670	Studies in Italian Literature	3
Italian 383	Honors Seminar	3
* Retakeable with change in topic.		
LATIN CONTENT AREA – 30 cr (plus any prereqs)		
Latin 103	First Semester Latin	3
Latin 104	Second Semester Latin	3

Latin 205	Third Semester Latin	3
Latin 306	Readings in Latin Literature	3
Latin 508	Latin Prose Composition	3
Select at least 15 credits from a combination of the following courses:		
Latin 501	Readings in Latin Prose*	3
Latin 502	Readings in Latin Poetry*	3
Latin 699	Directed Reading*	3

* Retakeable with a change in topic.

RUSSIAN CONTENT AREA

Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

SPANISH CONTENT AREA – 30 cr (plus any prereqs)

Spanish 308	Advanced Writing and Reading	3
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Select one of the following courses:

Spanish 318	Advanced Speaking and Listening	3
Spanish 319	Advanced Speaking and Listening for Heritage Speakers	3
Spanish 341	Introduction to Hispanic Linguistics	3
Spanish 350	Introduction to Literary Analysis	3
Spanish 461	Topics in Hispanic Culture (may be taken twice with a change of topic)	3

Select two of the following courses:

Spanish 470	Survey of Hispanic Literature and Civilization	3
Spanish 472	Survey of Spanish-American Literature and Civilization	3
Spanish 474	Survey of Spanish Literature and Civilization	3
300-Level or Higher Spanish Elective		3
300-Level or Higher Spanish Elective		3
300-Level or Higher Spanish Elective		3

OTHER PROGRAM REQUIREMENTS

Foreign Language Proficiency Requirement. A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor in the Department of Curriculum and Instruction.

Immersion Requirement. An immersion experience is required for all prospective language teachers. This requirement must be met by spending a semester or a year in a country where the chosen major language is spoken. Submit documentation of immersion experience to your academic advisor in the Department of Curriculum and Instruction prior to student teaching placement.

PROFESSIONAL EDUCATION REQUIREMENTS

A grade of C or better is required for all professional education requirements including student teaching. Prerequisites may be required.

Select one of the following courses:

Ed Psy 330	Introduction to Learning and Development	3
Ed Psy 631	Cognition: Learning, Problem Solving, and Thinking*	3
Ed Psy 640	Human Development: Theory and Research*	3

Select one of the following courses:

ExcEduc 300	The Exceptional Individual	3
ExcEduc 531	Inclusion for Secondary Education*	3
ExcEduc 600	Survey for Exceptional Education*	3
ExcEduc 605	Child, Learner, Disabilities*	3

Select one of the following courses:

CurrIns 503	Assessment Issues in Language Education	3
CurrIns 504	Teaching Reading and Writing	3
CurrIns 542	History and Politics of Second Language Education	3

CurrIns 543	Developing Biliteracy	3
CurrIns 544	Improvement in the Teaching of Reading*	3
CurrIns 545	Reading in the Content Areas: Middle, Junior, and Senior High School*	3
CurrIns 546	Language, Content, and Comprehensible Input	3
CurrIns 637	World Language Methods and Materials	3
CurrIns 639	Critical Issues and Methods in World Languages Education	3
CurrIns 655	Applied Educational Linguistics	3

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your world languages content area and professional education courses;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences;
- Criminal Background Check submitted to the Office of Clinical Experiences;
- Completion of language proficiency requirement; and
- Completion of immersion requirement.

CurrIns 438	Student Teaching in World Languages, EC-A	10
CurrIns 445	Seminar in Language Education	3

English as a Second Language Minor. World Language majors wishing to complete an English as a Second Language minor should complete these additional requirements:

CurrIns 541	Principles and Methods of Teaching ESL
CurrIns 444	Student Teaching in ESL-EC-A*

* Taken concurrently with CurrIns 438 for a total of 10 credits. Passing scores on the Praxis II (#5361) prior to student teaching placement.

ADDITIONAL REQUIREMENTS FOR CERTIFICATION

- A minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Satisfactory completion of a minimum of 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee;
- Program Portfolio. Students complete a program portfolio based on the 10 WI Teacher Standards; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

World Languages Program Requirements - Minor

The World Languages minor is designed for individuals who wish to earn a Wisconsin teaching certification to teach a

foreign language. Students wishing to pursue this certification must be in the process of obtaining or already have an initial certification.

AMERICAN SIGN LANGUAGE CONTENT AREA

Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

CHINESE CONTENT AREA – 18 cr (plus any prereqs)

Chinese 301	Fifth Semester Chinese	3
Chinese 302	Sixth Semester Chinese	3
Chinese 401	Seventh Semester Chinese	3
Chinese 402	Eighth Semester Chinese	3
Chinese 200	Chinese Calligraphy	3

Select one of the following courses:

Chinese 310	Business Chinese	3
Chinese 320	Contemporary Chinese Societies Through Film	3
Chinese 699	Advanced Independent Study	3
CompLit 363	Chinese Literature in the Global Context	3
Geog 332	China: Peoples, Regions, and Development	3
Hist 376	History of Ancient China, Earliest Times to 220 AD	3
Hist 377	Modern China	3
Hist 378	Revolution in China	3
ArtHist 382	Chinese Art and Architecture	3
ArtHist 480	Chinese Painting	3

FRENCH CONTENT AREA – 18 cr (plus any prereqs)

French 324	Contemporary French Language and Culture	3
French 325	Intensive Grammar and Usage	3
French 332	Approaches to Poetry and Fiction	3
French 392	Phonetics	3
French 426	Growing Up French	3

Select one of the following courses:

French 428	Castles, Cathedrals, and Common People	3
French 429	Royalty, Reason, and Revolution	3
French 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries	3
French 431	Seminar in Literature of the Francophone World	3
French 432	Seminar in French and Francophone Culture	3
French 433	Seminar in French Literature	3
French 450	Institutions and Culture of Contemporary France	3
French 451	Cinema of the French-Speaking World	3
French 510	Seminar on Masterpieces of Literature Written in French	3
French 592	Seminar in French Language	3

GERMAN CONTENT AREA – 18 cr (plus any prereqs)

German 331	Intermediate German Grammar and Usage	3
German 332	Intermediate Conversation and Composition	3
German 333	Analysis of German Texts	3
German 334	Introduction to German Literature and Culture	3
400-Level or Higher	German Literature and Culture	3
400-Level or Higher	German Culture or Linguistics Elective	3

HEBREW CONTENT AREA

Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

ITALIAN CONTENT AREA – 18 cr (plus any prereqs)

Italian 310	Italian Immersion	1
Italian 310	Italian Immersion	1
Italian 310	Italian Immersion	1
Italian 311	Advanced Conversation and Composition	3
Italian 312	Contemporary Italian Language and Culture	3

Italian 321	Introduction to Italian Literature	3
Italian 322	Introduction to Italian Literature and Film	3
300-Level or Higher Italian Elective		3
LATIN CONTENT AREA – 18 cr (plus any prereqs)		
Latin 103	First Semester Latin	3
Latin 104	Second Semester Latin	3
Latin 205	Third Semester Latin	3
Latin 306	Readings in Latin Literature	3
Latin 508	Latin Prose Composition	3
Select one of the following courses:		
Latin 501	Readings in Latin Prose*	3
Latin 502	Readings in Latin Poetry*	3
Latin 699	Directed Reading*	3

* Retakeable with a change in topic.

RUSSIAN CONTENT AREA

Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

SPANISH CONTENT AREA – 18 cr (plus any prereqs)

Spanish 308	Advanced Writing and Reading	3
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Select one of the following courses:

Spanish 318	Advanced Speaking and Listening	3
Spanish 319	Advanced Speaking and Listening for Heritage Speakers	3
Spanish 341	Introduction to Hispanic Linguistics	3
Spanish 350	Introduction to Literary Analysis	3

Select one of the following courses:

Spanish 446	Hispanic Sociolinguistics	3
Spanish 470	Survey of Hispanic Literature and Civilization	3
Spanish 472	Survey of Spanish-American Literature and Civilization	3
Spanish 474	Survey of Spanish Literature and Civilization	3
Spanish 461	Topics in Hispanic Culture	3

OTHER PROGRAM REQUIREMENTS

Foreign Language Proficiency Requirement. A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor in the Department of Curriculum and Instruction.

Immersion Requirement. An immersion experience is required for all prospective language teachers. This requirement must be met by spending a semester or a year in a country where the chosen major language is spoken. Submit documentation of immersion experience to your academic advisor in the Department of Curriculum and Instruction prior to student teaching placement.

PROFESSIONAL EDUCATION REQUIREMENTS

A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.

CurrIns 542	History and Politics of Second Language Education	3
CurrIns 637	World Language Methods and Materials	3
CurrIns 639	Critical Issues and Methods in World Language Education	3

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your world languages content area and professional education courses;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences;
- Criminal Background Check submitted to the Office of Clinical Experiences;
- Completion of language proficiency requirement; and
- Completion of immersion requirement.

CurrIns 437	Student Teaching in World Languages	3
CurrIns 445	Seminar in Language Education (Not required for students who are currently completing a portfolio in their major certification.)	3

ADDITIONAL REQUIREMENTS FOR CERTIFICATION

- A minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Undergraduate students must meet the graduation requirements for their primary certification; and
- Program Portfolio. Students complete a program portfolio based on the 10 WI Teacher Standards.

Courses

[Curriculum and Instruction \(CURRINS\)](#)

Web Home Pages:

[[School of Education](#)]

University of Wisconsin-Milwaukee Undergraduate Catalog 2017-2018:

Curriculum and Instruction

[[School of Education](#)]

[[Schools and Colleges](#)]

[[Contents](#) | [How to Use This Book](#) | [Calendar](#)]

[[Admission](#) | [Registration](#) | [Financial Information](#) | [Academic Information](#)]

[[Administration](#) | [UWM - Endless Possibilities](#) | [Academic Opportunities](#) | [Campus Resources](#)]

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[UWM Undergraduate Catalog 2017-2018](#)

[School of Education](#)

Exceptional Education

- Web Home Pages:
 - [School of Education](#)
 - [Exceptional Education](#)
- [Courses: Exceptional Education \(EXCEDUC\)](#)
- [Undergraduate Certificate Programs](#)

The Department of Exceptional Education offers an array of programs that prepare teachers in the fields of special education, interpreter training, and American Sign Language. Students interested in these programs should contact the Office of Student Services, Enderis 209, or visit uwm.edu/education/academics/exceptional-edu-department for more detailed information.

Special Education Teacher Certification Programs

The Department of Exceptional Education offers teacher certification programs in the following areas:

- **Early Childhood Special Education** (approximate ages of birth through 8).
- **Middle Childhood-Early Adolescence** (approximate ages of 6 through 12 or 13). Cross-categorical Special Education with a concentration in one of the following: Emotional/Behavioral Disabilities, Cognitive Disabilities, or Learning Disabilities.
- **Early Adolescence-Adolescence** (approximate ages of 10 through 21). Cross-categorical Special Education with a concentration in one of the following: Emotional/Behavioral Disabilities, Cognitive Disabilities, or Learning Disabilities.
- **Deaf or Hard of Hearing** (Early Childhood through Adolescence level); with certification in Middle Childhood-Early Adolescence Learning Disabilities for those who are enrolled in the full, two-year program.

Early Childhood, Middle Childhood through Early Adolescence, and Early Adolescence through Adolescence special education programs offer teacher certification at both the undergraduate and post-baccalaureate levels. Early Childhood and Middle Childhood through Early Adolescence also have a "5th Year" program for students to pursue a regular education license and add on a special education license with an additional year of work. Interested students can contact the Office of Student Services at soeoss@uwm.edu.

Post-baccalaureate certification programs in special education can be combined with a master's degree in Exceptional Education.

Early Childhood Special Education (birth to age 8)

Undergraduate Program:

The Early Childhood Special Education program at the University of Wisconsin-Milwaukee leads to the bachelor's degree through the School of Education. In addition, the program results in the Wisconsin 809 teaching license in Early Childhood Special Education, which certifies intervention with and instruction of children from birth through third grade with disabilities in Wisconsin. Coursework for the ECSE program is offered in collaboration with the Early Childhood Education program in the Department of Curriculum and Instruction.

During Year 1

CurrIns 140	Field Experience with Families and Communities	1
CurrIns 312	Models and Issues for Early Childhood Education	3

Semester 3

CurrIns 240	Field Experience with Dual Language Learners	2
CurrIns 501	Language Acquisition for Children of Diverse Backgrounds	3

Semester 4

CurrIns 302	Curriculum Design in Early Childhood	3
CurrIns 340	Field Experience in Early Childhood Education	2

or

CurrIns 440	Field Experience in Preschool and Kindergarten	2
CurrIns 502	Emergent Literacy and Biliteracy in the Early Childhood Classroom	3

Semester 5

ExcEduc 569	Curriculum and Methods for Special Education: Preschool	3
ExcEduc 648	Early Childhood Special Education Field Experience: Preschool	3
CurrIns 330	Teaching of Mathematics: Early Childhood	3

Semester 6

ExcEduc 570	Curriculum and Methods in Special Education: Primary	3
ExcEduc 649	Early Childhood Special Education Field Experience: Primary	3
Ed Psy/ExcEduc 613	Infant and Early Childhood Assessment	3
CurrIns 504	Methods for Biliteracy and Language Arts in Primary Grades	3

Semester 7

ExcEduc 568	Curriculum and Methods in Special Education: Birth to Three	3
ExcEduc 647	Early Childhood Special Education Field Experience: 0 to 3 Yrs	3
ExcEduc 682	Language and Literacy in Early Childhood Special Education	3

Semester 8

ExcEduc 481	Student Teaching with Students Having Early Childhood Exceptional Ed Needs	12
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Highly recommended:

CurrIns/ExcEduc 376	Developing and Understanding the edTPA	1
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Other required professional courses:

Art Ed 130	Multicultural Art and Visual Learning in Elementary Education	3
Mus Ed 260	Making Music Connections with Children	3
Ed Psy 330	Introduction to Learning and Development	3
ExcEduc 630	Survey of Early Childhood Intervention	3
CurrIns/ExcEduc 612	Collaborations for Teachers with Families, Schools, and Communities	3

Students are required to meet the University's General Education Requirements. Early Childhood Special Education students must meet some of these requirements with specific courses.

Humanities (6 cr): 3 cr Commun 103 and 3 cr GER Literature Elective

Natural Sciences (9 cr): 3 cr CES 210; 3 cr Earth Science Elective (Astron, Atm Sci, Geog, Geo Sci); 3 cr Physical Science Elective (Chem or Phys)

DPI Human Relations requirement: Anthro 213 or English 276 (topic: Literature, History, and Sovereignty of Upper Midwest Indians) or AIS 203 or Hist 263

Competency requirements: Math 175, Math 176, English 102, English 201 or 205

Electives ensure the minimum 120 credits required for graduation.

Post-baccalaureate Program (Under revision; please see an advisor for information):

YEAR ONE

Summer I (6 cr)

CurrIns 302 Curriculum Design in Early Childhood 3

ExcEduc 630 Survey of EC Intervention: Young Children with Special Needs, Families 3

Fall I (9 cr)

ExcEduc 569 Curriculum and Methods for Special Education: Preschool 3

ExcEduc 648 Early Childhood Special Education Field Experience: Preschool 3

CurrIns 502 Emergent Literacy and Bilingualism in the Early Childhood Classroom 3

Spring I (9 cr)

CurrIns 504 Teaching Reading and Writing in Early Childhood: The Primary Years 3

ExcEduc 570 Curriculum and Methods for Special Education: Primary 3

ExcEduc 649 Early Childhood Special Education Field Experience: Primary 3

YEAR TWO

Summer II (6 cr)

ExcEduc 568 Curriculum and Methods for Special Education, Birth to Three 3

ExcEduc 647 Early Childhood Field Experience: 0 to 3 years 3

Fall II (9 cr)

ExcEduc 682 Language and Literacy in Early Childhood Special Education 3

CurrIns 330 Teaching of Mathematics: Early Childhood 3

Ed Psy 330 Introduction to Learning and Development 3

or

Ed Psy 640 Human Development: Theory and Research 3

Spring II (6 cr)

ExcEduc 652 Developmental Evaluation of Young Children with Disabilities 3

ExcEduc 651 Working with Families in Urban Communities 3

Other Teaching Experience Coursework Requirements

ExcEduc 481 Student Teaching with Students Having Early Childhood Exceptional Education Needs 3

or

ExcEduc 776 Fieldwork with Students Having Early Childhood Exceptional Education Needs 3

CurrIns 400 Fieldwork in Curriculum and Instruction 1-6

Middle Childhood-Early Adolescence (teaching students across disability areas including cognitive disabilities, emotional disabilities, and learning disabilities, in elementary and middle school settings)

Undergraduate Program:

Program Admission Requirements:

- At least 30 credits of Pre-Professional Coursework completed;
- Minimum cumulative grade point average of 2.5 and a C or better in all required courses;
- Successful completion of dispositions and field evaluation from CurrIns 300 or 333;
- Successful completion of Math 175 and English 102 (or placement of 4 or higher on English placement test);
- Successful completion of pre-professional skills test (If the CORE is taken, all subsections must be taken and 2 of the 3 subsections must be passed prior to an interview. The failed subtest must be passed by the end of your first year in the program.); and
- Successful application and interview.

MCEA-Special Education Bachelor Degree/Certification Requirements:

- Completion of Pre-Professional Coursework, Content Focus Area Coursework, and the Professional Course Sequence, as outlined below;

- Passing scores on the state-required licensure tests: Praxis II, the Wisconsin Foundations of Reading Test, and the edTPA;
- Completion of ACT 31 requirement;
- Completion of foreign language requirement;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
- Completion of the ePortfolio;
- Completion of a minimum 120 degree credits; and
- Minimum cumulative GPA of 2.75 and a C or better in all professional courses.

Pre-Professional Coursework:

The Pre-Professional Coursework consists of 54 credits and is designed to meet UWM's general education requirements (GER) and foundations in urban education and content knowledge related to teaching in elementary and middle schools.

- Foreign language (6 credits or equivalent);
- Cultural Diversity/Act 31 - Anthro 213, or AIS 203, or English 276, or Hist 263 (3 credits);
- Arts - Theatre 260 (3 credits);
- English 102 and 201 (6 credits);
- Humanities - CurrIns 233; and English elective (6 credits);
- Mathematics - Math 175 and 176 (6 credits);
- Natural Sciences - Physical Science elective and CES 210 (6 credits);
- Social Sciences - History 151 or 152; Political Science 104 or 105 (6 credits); and
- Urban Education foundation courses - Ed Pol 375, CurrIns 300 or 333, Ed Psy 330, ExcEduc 605 (12 credits).

Content Focus Area Coursework:

Content Focus Area Coursework (18 credits) is designed to extend the GERs and add depth to subject matter knowledge related to teaching in elementary and middle schools. One or two of the following focus areas are selected under the guidance of an advisor: Arts, Humanities, Mathematics, Natural Science, Social Science, and World Language.

PROFESSIONAL COURSE SEQUENCE

Fall I

ExcEduc 586	Teaching Experience I	2
CurrIns 306	MCEA Clinical Experience Grades 1-3	1
CurrIns 536	Literacy I: Assessing and Teaching Early Literacy	3
ExcEduc 571	Curriculum Accommodations I: Primary/Middle GER and content courses	3

Spring I

ExcEduc 586	Teaching Experience I	3
ExcEduc 681	Literacy II	3
CurrIns 331	Teaching of Mathematics, Elementary School	3
ExcEduc 662	Collaborative Strategies	3
ExcEduc 595	Technology Applications for Diverse Learners	3

YEAR TWO

Fall II

ExcEduc 587	Teaching Experience II	3
ExcEduc 532	Assessment and Monitoring	3
ExcEduc 601	Behavioral Supports	3
CurrIns 537	Literacy II: Assessing and Teaching Literacy through Early Adolescence GER and content courses	3

Spring II

ExcEduc 588	Teaching Experience III	9
ExcEduc 574	Curriculum Accommodations II: Primary and Middle	3
ExcEduc 488	Linking Seminar: Professional Development	1

Special Education Dual Certificate Program (5th year)

In partnership with Department of Curriculum and Instruction, this fifth-year program is geared toward undergraduates who are interested in becoming special educators. After successfully completing the regular education MCEA program, students are admitted into the fifth-year special education option. Many students receive their bachelor's degrees upon completion of UWM's collaborative regular education program, while others complete the fifth-year special education option as part of a master's degree program. Please contact the Office of Student Services at 414-229-4721 or soeoss@uwm.edu for program information and requirements.

Post-baccalaureate Program (Under revision; please see an advisor for information):

YEAR ONE

Summer I (9 certification credits)

ExcEduc 586	Teaching Experience I	3
ExcEduc 680	Literacy I	3
ExcEduc 605	Child, Learner, Disabilities	3

Fall I (9 certification credits)

ExcEduc 587	Teaching Experience II	3
ExcEduc 571	Curriculum Accommodations I: Primary/Middle	3
ExcEduc 601	Behavioral Supports	3

Spring I (10 certification credits)

ExcEduc 587	Teaching Experience II	3
ExcEduc 681	Literacy II	3

or

CurrIns 543	Developing Biliteracy	3
CurrIns 561	Issues in Elementary and Middle School Mathematics	3
ExcEduc 487	Linking Seminar II: Primary/Middle-Behavioral Support, Planning, Assessment	1

YEAR TWO

Summer II (6 graduate credits)

ExcEduc 662	Collaborative Strategies	3
Ed Pol 530	Urban Education: Foundations or alternate with advisor approval	3

Fall II (6 certification credits/9 graduate credits)

ExcEduc 588	Teaching Experience III	3
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or

ExcEduc 771	Fieldwork with Students Having Exceptional Needs (graduate students)	3
ExcEduc 532	Assessment and Monitoring	3
ExcEduc 715	Issues and Trends in Exceptional Education (graduate students)	3

Spring II (7 certification credits/6 graduate credits/portfolio presentation review)

ExcEduc 574	Curriculum Accommodations II	3
ExcEduc 488	Linking Seminar: Professional Development	1

Selected course with advisor approval:

Advanced Methods in Learning Disabilities	3
Assistive Technology	3
Transition from School to Work	3
Teaching English Language Learners	3

Early Adolescence-Adolescence (teaching students across disability areas in middle or high school settings)

Undergraduate Program:

Application Requirements:

- Achieve a placement level 4 or higher on the English placement test, or complete English 102 or an equivalent with a C or better (OWC-A);
- Score of 30 or higher on the Math placement test or Math 105, 106, 175, or equivalent with a C or better (QL-A);
- Successful completion of a Wisconsin Approved Basic Skills Test;
- Completion of CurrIns 300, Introduction to Teaching (or equivalent), with a C or better;
- Completion of ExcEduc 300, The Exceptional Individual (or equivalent), with a C or better;

- Completion of Ed Pol 375, Cultural Foundations of Education (or equivalent), with a C or better;
- Completion of an approved advanced course (at least three credits) with significant written or oral communication component (OWC-B), with a C or better (recommendations: ExcEduc 560, English 215, English 240, English 201, English 206, or equivalent);
- Completion of an approved advanced course (at least three credits) making use of quantitative tools (QL-B), with a C or better (recommendations: Philos 211 or equivalent);
- Completion of a minimum of 45 credits at the time of application (must complete 58 by the time of program commencement) with a minimum of 37 successfully completed credits in GER/content area coursework;
- Maintain a cumulative GPA of 2.5;
- Completion of a program application; and
- Interview

EAA Completion/Certification Requirements:

- Completion of all admission requirements, granted admission to the EAA program, and completion of EAA professional course sequence;
- Successful completion of the Praxis II. Passage of Wisconsin Foundations of Reading Test. Passage of edTPA (beginning 2015-16 school year);
- Completion of a minimum of 53 GER and elective credits focused on content area(s) relevant for a Special Educator in middle and high school settings;
- Completion of EAA GER requirements;
- Completion of Act 31 requirement;
- Completion of foreign language requirement;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
- Completion of a minimum of 128 degree credits; and
- Maintain a cumulative GPA of 2.75.

Students may enter the professional courses only after formal admission to the School of Education. The professional program consists of four semesters, including fieldwork/student teaching. Students must have a minimum grade of C or better in all professional coursework.

PROFESSIONAL COURSE SEQUENCE

Fall I

CurrIns 545	Reading in the Secondary Content Areas	3
Ed Psy 330	Introduction to Learning and Development	3
ExcEduc 635	Individualized Planning and Instructional Methods	3
CurrIns 643	Balanced Literacy Education in the Elementary School	3

Field Requirement: 1.5 days per week or 135 hours

Spring I

CurrIns 332	Teaching of Mathematics, Middle School	3
ExcEduc 595	Technology Applications for Diverse Learners	3
ExcEduc 636	Curriculum Accommodations	3
ExcEduc 662	Collaborative Strategies	3
ExcEduc 680	Literacy	3
ExcEduc 586	Teaching Experience I	1
ExcEduc 486	Linking Seminar I: Teaching in Urban Schools	1

Field Requirement: 2 days per week or 190 hours

It is strongly recommended that students take the reading test required for initial certification at the end of the first year of the

professional sequence.

Fall II

ExcEduc 532	Assessment and Monitoring	3
ExcEduc 671	Behavioral Support and Intervention for Mid/High Students with Disabilities	3
ExcEduc 679	Critical Issues in Transition Planning for Students with Disabilities	3

ExcEduc 496	Linking Seminar III: Middle/High Professional Development	2
ExcEduc 587	Teaching Experience II	3
Field Requirement: Half-days (M-F)		
Praxis II requirement: All students are required to successfully complete the Praxis II examination prior to their final student teaching semester (spring II).		

Spring II

CurrIns 543	Developing Biliteracy	3
ExcEduc 588	Teaching Experience III	9
Field Requirement: Twenty weeks full-time (M-F)		

Post-baccalaureate program:

YEAR ONE

Summer I (9 certification credits)

ExcEduc 586	Teaching Experience I	3
ExcEduc 680	Literacy I	3
ExcEduc 605	Child, Learner, Disabilities	3

Fall I (9 certification credits)

ExcEduc 587	Teaching Experience II	3
ExcEduc 635	Individualized Planning and Instructional Methods	3
ExcEduc 671	Behavior Support and Intervention for Mid/High Students with Disabilities	3

Spring I (10 certification credits/portfolio/performance review)

ExcEduc 587	Teaching Experience II	3
ExcEduc 636	Curriculum Accommodations	3
CurrIns 332	Teaching of Mathematics: Middle School	3
ExcEduc 486	Linking Seminar I: Teaching in Urban Schools	1

YEAR TWO

Summer II (6 certification credits/6 graduate credits)

CurrIns 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
Ed Pol 530	Urban Education: Foundations	3

Fall II (6 certification credits/9 graduate credits)

ExcEduc 588	Teaching Experience III	3
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or

ExcEduc 771	Field Work with Students Having Exceptional Education Needs (graduate students)	3
ExcEduc 532	Assessment and Monitoring	3
ExcEduc 679	Critical Issues in Transition Planning for Students with Disabilities	3

Spring II (8 certification credits/6 graduate credits/portfolio/performance review)

Selected Course with Advisor Approval: 3

ExcEduc 588	Teaching Experience III	
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or

ExcEduc 771	Field Work with Students Having Exceptional Needs	
CurrIns 541, 543, or 546	for ESL Focus	

or

Focus area (e.g., Advanced Methods in Learning Disabilities, Assistive Tech)

ExcEduc 496	Linking Seminar III: Middle/High – Professional Development	2
ExcEduc 662	Collaborative Strategies	3

Deaf and Hard of Hearing (teaching in early childhood, elementary, middle, and high school settings)

YEAR ONE

Summer I (13 credits) (excluding sign language)

ExcEduc 586	Teaching Experience I	3
ExcEduc 680	Literacy I	3
ExcEduc 605	Child, Learner, Disabilities	3
ExcEduc 562	Hearing Science	3
ExcEduc 655	Introduction to Education of Individuals Who Are Deaf and Hard of Hearing	1
	Sign Language (depending upon skill level)	3
	ExcEduc 301 (ASL I), ExcEduc 302 (ASL II), ExcEduc 303 (ASL III), ExcEduc 304 (ASL IV)	
Fall I (12 credits)		
ExcEduc 587	Teaching Experience II	3
ExcEduc 571	Curriculum Accommodations I: Primary/Middle	3
ExcEduc 601	Behavioral Supports	3
ExcEduc 559	Communication in the Classroom II: Deaf/Hard of Hearing	3
Spring I (13 certification credits/portfolio/presentation review)		
ExcEduc 587	Teaching Experience II	3
ExcEduc 681	Literacy II	3
or		
CurrIns 543	Developing Biliteracy	3
CurrIns 561	Issues in Elementary and Middle School Mathematics	3
ExcEduc 487	Linking Seminar II: Primary/Middle – Behavioral Support, Planning, Assessment	1
ExcEduc 563	Speechreading/Auditory Rehabilitation	3
YEAR TWO		
Summer II (10 credits) (excluding sign language)		
ExcEduc 662	Collaborative Strategies	3
ExcEduc 587	Teaching Experience II	3
or		
ExcEduc 771	Field Work with Students Having Exceptional Education Needs (graduate students)	3
ExcEduc 488	Linking Seminar III: Primary/Middle – Professional Development	1
Ed Pol 530	Urban Education: Foundations or Alternate with advisor approval	3
	Sign Language (depending upon skill level)	3
	ExcEduc 301 (ASL I), ExcEduc 302 (ASL II), ExcEduc 303 (ASL III), ExcEduc 304 (ASL IV)	
Fall II (10 credits)		
ExcEduc 588	Teaching Experience III	3
or		
ExcEduc 772	Field Work with Students Having Hearing Impairments	3
ExcEduc 532	Assessment and Monitoring	3
ExcEduc 533	Assessment/Monitoring: Deaf and Hard of Hearing	1
ExcEduc 715	Issues and Trends in Exceptional Education	3
Spring II (4 credits/portfolio/presentation review)		
ExcEduc 574	Curriculum Accommodations II: Primary/Middle	3
ExcEduc 488	Linking Seminar III: Primary/Middle – Professional Development	1

Non-Certification Programs in Exceptional Education

NOTE: American Sign Language I-VI courses in the Department of Exceptional Education satisfy University foreign language requirements. For all programs that require American Sign Language, students with previous experience in American Sign Language can take the American Sign Language Proficiency Interview (ASLPI) to determine appropriate placement level. If a B or better is received on the ASLPI, credit will be received for courses up through ASL 4. Any individual who would like to take the ASLPI will be responsible for the cost of the assessment. Please call (414) 229-5251 for more information.

Interpreter Training Program

The Interpreter Training Program (ITP) may be completed as an undergraduate or post-baccalaureate program. Graduates of the program are prepared to work in a variety of settings as interpreters for children, youth, and adults who are deaf and hard of hearing. Students applying for the post-baccalaureate program should contact the Department of Exceptional Education for specific requirements at (414) 229-5251. Students who seek application to the ITP program as undergraduates must meet the following admission requirements:

Admission Requirements:

- ExcEduc 348, Introduction to the Profession of Interpreting, with a grade of C or better;
- ExcEduc 352, American Deaf Culture, with a grade of C or better;
- ExcEduc 301-306, American Sign Language I-VI. ASL I-II with a grade of C or better; ASL III-VI with a grade of B or better;
- ExcEduc 320, Intro to Interpreting Skills: English to American Sign Language with a grade of B or better;
- ExcEduc 321, Intro to Interpreting Skills: American Sign Language to English with a grade of B or better;
- 58 credits complete;
- Cumulative GPA of 2.5; and
- Completion of Screening Interview, which occurs after application is submitted.

ITP Bachelor Degree Requirements:

- Completion of all admission requirements, granted admission to the ITP, and completion of ITP professional course sequence;
- Completion of ITP GER requirements;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
- Completion of a minimum 121 degree credits; and
- Professional coursework minimum GPA of 2.75.

Language and Licensure Requirements:

- Ed Psy 330, Intro to Learning and Development (3 cr);
- ExcEduc 300, The Exceptional Individual (3 cr); and
- ExcEduc 510, Classifiers or ExcEduc 520, ASL Literature (3 cr).

Professional Course Sequence

Students must have a grade of B or better for identified skill courses, a B- in remaining courses, and a minimum 2.75 GPA in all professional coursework.

Fall I

ExcEduc 345	Interpreting Skill Development I (B)	3
ExcEduc 347	English Skills Development (B)	3
ExcEduc 349	Fieldwork: Interacting in the Deaf Community I (B-)	3
ExcEduc 358	ASL/English Linguistics I (B-)	3

Spring I

ExcEduc 350	Interpreting: Spoken English to ASL II (B)	3
ExcEduc 351	Interpreting: ASL to Spoken English II (B)	3
ExcEduc 354	Fieldwork: Interacting in the Deaf Community II (B-)	3
ExcEduc 360	Transliteration/Oral I (B)	3
ExcEduc 363	ASL/English Linguistics II (B-)	3

Summer I

ExcEduc 371	Strategies for the National Interpreter Certification Exam (B-)	1
ExcEduc 357	Issues and Trends for Educational Interpreters (B-)	3

Fall II

ExcEduc 355	Interpreting: ASL to Spoken English III (B)	3
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ExcEduc 356	Transliteration II (B)	3
ExcEduc 359	Interacting in the Deaf Community III (B-)	3
ExcEduc 361	Interpreting: Spoken English to ASL III (B)	3
Spring II		
ExcEduc 362	Specialized Interpreting Across Diverse Settings (B)	3
ExcEduc 364	Interacting with the Deaf Community IV (B-)	6
ExcEduc 372	Interpreter Training Program Capstone (B-)	3

58 total credits in ITP Sequence plus 9 credits in Language and License requirements.

Certificate of Completion Requirements:

- Completion of Wisconsin Department of Instruction Educational Interpreter License course requirements with a C or better: Ed Psy 330, Intro to Learning and Development, ExcEduc 300, The Exceptional Individual, and ExcEduc 510, Classifiers;
- Pass written exam for the Registry of Interpreters for the Deaf National Interpreter Certification (RID, NIC) **and/or** the Educational Interpreter Proficiency Assessment (EIPA);
- Pass the performance exam for Wisconsin Interpreter and Transliteration Assessment (WITA) with a 1/2 or 2/1 and higher **and/or** the Registry of Interpreters for the Deaf National Interpreter Certification (RID, NIC) **and/or** the Educational Interpreter Proficiency Assessment (EIPA) with a 3.5 or higher; and
- Minimum grade of B-/B or better in all professional coursework.

American Sign Language (ASL) Studies

The American Sign Language Studies program incorporates all of the cultural and linguistic components of American Sign Language. Several objectives will be covered during the program, such as Deaf culture, Deaf folklore, and Deaf literature, and the relationship between the signing community and the non-signing community. This program also covers linguistic components with several course offerings in ASL as well as specialized skill areas of ASL, such as a focus on grammatical structure and an overview of linguistic components of ASL.

ASL PROGRAM REQUIREMENTS

- Score a 4 or higher on the English Proficiency Exam, or English 102 with a C or better;
- Score a 30 or higher on the Math Placement Test, or Math 105, 106, 175, or equivalent with a C or better;
- Communication Proficiency, Commun 101 or Commun 103, with a C or better;
- Maintain a cumulative GPA of 2.5;
- Students must have a minimum grade of C or better in all professional coursework;
- Completion of ASL GER requirements;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program; and
- Completion of a minimum 128 degree credits.

ASL COURSE REQUIREMENTS

ExcEduc 301	American Sign Language I	3
ExcEduc 302	American Sign Language II	3
ExcEduc 303	American Sign Language III	3
ExcEduc 304	American Sign Language IV	3
ExcEduc 305	American Sign Language V	3
ExcEduc 306	American Sign Language VI	3
ExcEduc 330	Deaf History	3
ExcEduc 346	Skill Development: Semantics	3
ExcEduc 352	American Deaf Culture	3
ExcEduc 358	ASL/English Linguistics I	3
ExcEduc 363	ASL/English Linguistics II	3

ExcEduc 500	Fingerspelling and Numbers	3
ExcEduc 510	Classifiers	3
ExcEduc 520	ASL Literature	3

Education Electives: Choose one of the following:

ExcEduc 348	Introduction to the Profession of Interpreting	3
ExcEduc 655	Introduction to Education of Individuals Who Are Deaf and Hard of Hearing	1
CurrIns 300	Introduction to Teaching: Colloquium and Fieldwork	3
Other Major/focus elective approved by advisor		

American Sign Language (ASL) Studies Minor Area

The American Sign Language (ASL) Studies minor area addresses the needs of students who are already pursuing a major in another area of study, but want to supplement their studies with knowledge and skill in ASL. This will allow students to be able to communicate with Deaf persons they may meet in their professions. Students must have a minimum grade of C or better in all ASL minor coursework.

ASL Minor Area Course Requirements

ExcEduc 301	American Sign Language I	3
ExcEduc 302	American Sign Language II	3
ExcEduc 303	American Sign Language III	3
ExcEduc 304	American Sign Language IV	3
ExcEduc 305	American Sign Language V	3
ExcEduc 306	American Sign Language VI	3
ExcEduc 330	Deaf History	3
ExcEduc 346	Skill Development: Semantics	3
ExcEduc 352	American Deaf Culture	3
ExcEduc 510	Classifiers	3

Inclusion and Accessibility Studies. This program is designed for those interested in working with students and adults with disabilities in a variety of settings. The focus is on understanding disability and disability policy broadly, along with 9 credits in 3 of the following areas: Autism Spectrum Disorders, Deaf History and Culture, Transition to Post-Secondary Environments, and an International Focus in Disability. This major is for individuals who are interested in pursuing a career in non-profit, for-profit, governmental agencies, and non-governmental organizations (NGOs) that provide services to children and adults with disabilities (Transition Specialist, Job Coach, Line Therapist, Residential Service Provider, international aid agency, etc.).

Requirements for Major:

120 credits: GER credits (27), 45 credits in the major (18 core course credits; 9 credits, 3 in each of 3 strands, 27). Additional credits are electives, which can be a combination of minor areas of study, certificate options, and/or other areas of student interest.

Core Credits – 18 credits (3 credits each)*	ExcEduc 547	Comparative Special Education
	ExcEduc 548	Introduction to Disability Studies
	ExcEduc 595	Technology Applications for Diverse Learners
	ExcEduc 608	Multicultural Special Education
	ExcEduc 651	Working with Families
	ExcEduc 662	Collaborative Strategies
	9 cr from the following: Transition**	ExcEduc 679
ExcEduc 503		
ExcEduc 505		
9 cr from the following:	ExcEduc 507	
	ExcEduc 560	Foundations of Autism Spectrum Disorders

Autism Spectrum Disorders*	ExcEduc 561	Methods of Working with Individuals with Autism Spectrum Disorders
	ExcEduc 585	Supervised Practicum in Child and Youth Care
9 cr from the following:	ExcEduc 301	American Sign Language I
American Sign Language**	ExcEduc 330	Deaf History
	ExcEduc 352	American Deaf Culture
9 cr of the following:	ExcEduc 279	Study Abroad
Global Studies**		
Total 45 credits		

*Required courses; **Recommended courses – students should meet with their advisor to plan their specific course of study.

Courses

[Exceptional Education \(EXCEDUC\)](#)

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Educational Psychology

- Web Home Pages:
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 - [Educational Psychology](#)
- [Courses: Counseling \(COUNS\)](#)
- [Courses: Educational Psychology \(ED PSY\)](#)

The Department of Educational Psychology offers undergraduate courses in human development and learning, measurement, research, evaluation and statistics, school psychology, school counseling, and community counseling. These courses are for students enrolled in teacher preparation programs in the School of Education and for interested students in other schools and colleges. Undergraduates may not major or minor in educational psychology.

Educational Psychology also offers a minor in Counseling to undergraduates from other majors, such as Psychology, Nursing, Criminal Justice, Communication, and other areas in which students are interested in developing counseling skills.

The Counseling minor requires the completion of a minimum of 18 credits, at least 9 of them at the 300 level or above, taken in residence at UWM. The School of Education requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work. The following are required:

Ed Psy 212	Career Planning and Development
Ed Psy 220	Positive Psychology Applied to Culture, Learning, and Development
Ed Psy 227	Cross-Cultural Conversations
Ed Psy 330	Introduction to Learning and Development
Or	
Ed Psy 640	Human Development: Theory and Research
Couns 403	Overview of Counseling Skills
Couns 600	Introduction to Community Counseling

For graduate programs in school counseling, community counseling, school psychology, learning and development, and educational statistics and measurement, see The University of Wisconsin-Milwaukee [Graduate School Bulletin](#).

Courses

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[School of Education](#)

Undergraduate Certificate Programs

- [Autism Spectrum Disorders](#)
- [Community-Based Organizations: Policy and Leadership](#)
- [Community Leadership](#)
- [Youth Work](#)

The School of Education offers undergraduate certificates that can enhance professional development. Certificates consist of focused coursework designed to provide targeted academic preparation. The following certificate programs are available to all UWM undergraduates and to those who already hold a bachelor's degree (from any institution).

Autism Spectrum Disorders

The Autism Spectrum Certificate program will train students to help persons with an autism spectrum disorder (ASD) in numerous settings. Potential students include therapists and family members working with children at home, special and general education teachers working with children in school settings, and job coaches working with young adults and adults in the work place.

Through courses, field experiences, and other planned learning experiences, students will critically examine the characteristics, etiology, and prevalence of ASD and related disorders; understand assessment, diagnosis, and intervention; learn how to work with family members of individuals with ASD; understand the language, communication, and social needs of individuals with ASD; and learn to apply interventions.

Course of Study:

Required courses:

ExcEduc 560 Foundations of Autism Spectrum Disorders 3

ExcEduc 561 Methods of Working with Individuals with Autism Spectrum Disorders 3

Field Experience Requirement (choose one of the following or another field experience approved by the faculty advisor):

ExcEduc 585 Supervised Practicum in Child and Youth Care 2-4

Psych 292 Psychology Field Placement Lower Division 3

Psych 692 Field Placement in Psychology 3

Elective Courses (choose 2 from the following):

Ed Psy 330	Introduction to Learning and Development	3
Ed Psy 575	Infant and Early Childhood Assessment	3

Community-Based Organizations: Policy and Leadership

This certificate program prepares students for mid-level positions in community-based organizations and provides a base for graduate work in non-profit management and other related areas. Students take coursework in foundations and policy, which provides an overview of the workings and role of CBOs, fundraising and marketing, and in leadership to provide knowledge in preparation for supervisory and management roles.

Course of Study:

Required courses:

Foundations and Policy (6 credits)

Ed Pol 601	Foundations of Community-Based Organizations	3
Ed Pol 603	Policy Analysis for Community-Based Organizations	3

Fundraising and Marketing (6 credits)

Ed Pol 602	Proposal Writing and Fundraising Skills for Community-Based Organizations	3
Ed Pol 604	Marketing for Community-Based Organizations	3

Leadership Course (3 credits?choose one)

Ad Ldsp 537	Leadership and Management of Volunteer Programs	3
Ad Ldsp 617	Leadership in Youth-Serving Organizations	3

Community Leadership

The Community Leadership Certificate provides students from any major with a way to explore leadership theory and identity in the community (including the campus community) and community-based institutions. The program will be based on a social justice model of leadership development, but will expose students to additional philosophies such as servant leadership and authentic leadership. Students will also gain practical experience by attending teambuilding activities such as ROPES courses, participating in community service, and doing a practicum in a leadership position, among other experiential learning activities.

The certificate program consists of 16 credits, three of which will come from an experiential learning course, with activities specific to the student's major. Sites for this section of the program could include community health clinics (group facilitation or advocacy roles), campus organizations (campus ambassadors, peer health advocates, etc.), local non-profits (board positions), and others.

Course of Study:

Required courses:

Ed Pol 315	Group Process and Civic Engagement	3
Ad Ldsp 691	Leadership Ethics in Multicultural Organizations	1

Leadership Practice Course (choose one from the following)

Ed Pol 111	Introduction to Community Change and Engagement	3
Ad Ldsp 507	Introduction to Group Leadership	3
Ad Ldsp 537	Leadership and Management of Volunteer Programs	3

Social/Historical Foundations Elective – 3 credits from list of selected courses – see advisor or program sheet

Practical Elective – 3 credits from list of selected courses – see advisor or program sheet

Leadership Capstone/Practicum (choose one from the following)

Ed Pol 409	Fieldwork/Practicum in Education and the Community	3
Ad Ldsp 630	Field Work in Schools, Agencies, and Institutions	3
Nurs 403	Practice, Research, and Leadership Role Development	3
WGS 489	Internship in Women's and Gender Studies	3
Commun 698	Internship in Communication	3

For more information, contact Dr. Aaron Schutz: (414) 229-4150, schutz@uwm.edu.

Youth Work

The Youth Work Certificate is available to students in Social Work, Community Education and Engagement,

Exceptional Education, and Educational Studies. It is ideal for students who want to learn more about adolescence and working with youth in a variety of settings, including large and small community based programs, group homes, foster care, and residential treatment centers. The focus is on youth who are troubled or at high risk, but much of the learning applies to youth in general and younger children as well.

Course of Study:

Required Courses:

Ed Pol/Soc Wrk 580	An Overview of Child/Youth Care	3
Ed Pol/Soc Wrk 581	Youth Work Practice	3
Ed Pol 409	Supervised Practicum in Child and Youth Care	2-4

6 cr of courses focused on Human Development or Family Work

For more information, contact Dr. Raji Swaminathan: (414) 229-6740, swaminar@uwm.edu.

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Educational Policy and Community Studies

- Web Home Pages:
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 - [Educational Policy and Community Studies](#)
- [Community Engagement and Education](#)
- Courses:
 - [Educational Policy and Community Studies \(ED POL\)](#)

The Department of Educational Policy and Community Studies at UWM provides students with a deeper understanding of education and community contexts in urban areas. The department offers a Bachelor of Science in Community Engagement and Education (CEED).

Students often choose to focus their coursework in one of the following areas:

- Alternative Education/At-Risk Students
- Child Care (Educator or Administrator Track)
- Community Organizing for Social Change
- Policy and Leadership in Community-Based Organizations
- Urban Education
- Youth Work

Students, past and present, are employed by charities, hospitals, schools, community-based organizations, and local government units in metropolitan Milwaukee. The Department does not offer licensure for teaching in K-12 public schools, but many graduates either seek post-baccalaureate certification or teach in private schools.

The degree program helps those working in schools and the community better understand the social and political contexts of their jobs and provides a range of skills for better addressing the challenges they face. Students can also select one of four optional submajors: Child Care, Community-Based Organizations Policy and Leadership, Child and Family Services, or Community Leadership. Students may seek certificates in Community Organizing, Community-Based Organizations & Leadership, Community Leadership, and Youth Work. Licensed teachers may seek an add-on state DPI certification in Alternative Education.

The Bachelor of Science degree in Community Engagement and Education is also available as a second degree option. Candidates for a second degree must satisfy all current requirements for an undergraduate degree for the degree program. Some of the requirements may be met by transfer credits. Students must complete at least 30 credits in residence at UWM after the date on which the first degree is awarded. If more than 30 credits are needed to complete all degree requirements, the last 30 credits must be completed in residence.

Students in the department come from a range of educational and community-based backgrounds. Our students and alumni include state and local elected officials; community organizers and developers; personnel in human resource institutions, including program planners, outreach workers, and administrators; teachers and directors of community day care programs; youth workers in community and group home care; teachers and directors of alternative schools; and directors of community-based organizations.

The Department also offers a master's degree program in Cultural Foundations of Education with areas of concentration in educational foundations and multicultural education, focusing on sociological, historical, philosophical, and other frames of reference. Many of the same focus areas that are available in the CEED BS program can be pursued at a more advanced level in our MS program. Additional information about the master's degree program is available at <https://uwm.edu/education/academics/cultural-foundations-edu/>.

COMMUNITY ENGAGEMENT AND EDUCATION

Community Engagement and Education Admission. Community Engagement and Education majors must meet regular University requirements for admission and are admitted through the Department.

Prior Professional Educational Experience. A student who has been accepted as a major in Community Engagement and Education may earn Prior Professional Educational Experience (PPEE) credit that will be counted toward the Community Engagement and Education degree. Students pay for one three-credit course, and all additional credits they receive through the course are awarded *without cost*. Students must demonstrate competence by completing examinations. Credit is awarded in 3-credit blocks, if the student earns a grade of C or better, on each of 14 essay examinations. The specific competencies are listed below:

Competency Areas	Cr
Community Perspectives on Human Resource Programs	3
Resource Development	3
Local Community Systems	3
Political/Economic Analysis	3
Personal Growth Competency	3
Philosophies of Change	3
Group Process Skills	3
Leadership Issues	3
Research Skills	3
Change Strategies	3
Educational Advocacy	3
Administrative Skills	3
Social Problem Analysis	3
Conflict Resolution	3

Community Engagement and Education majors wishing to demonstrate their competencies for these credits are required to enroll in the competency examination course (Ed Pol 100, Community Education I) during their first or second semester of study. Students will be apprised of deadlines and procedures once they are enrolled in the course. The student may earn a maximum of 42 PPEE credits. These credits may be applied only to a Community Engagement and Education degree and only as lower-division electives. Students who leave the CEED program will not be able to use these credits in other programs.

COURSE OF STUDY: MAJOR

Students take a common core of required introductory courses to help them learn to evaluate community and educational social problems, devise appropriate change strategies, and improve their skills as advocates and educators. Students will have the opportunity to relate their programs of study to their community work.

A minimum of 120 credits distributed within specific categories is required for graduation. Please see your advisor for additional information.

The Department requires its students to meet the University's General Education Requirements. Community Engagement and Education majors have until the beginning of their junior year (58 credits) to meet this requirement. Students admitted to the University for Semester I, 1986-87 or later must meet UWM's General Education Requirements. University GER requirements were recently updated to include Oral and Written Communication and Quantitative Literacy Competencies. See your advisor to find out which set of requirements you must fulfill.

University GER Competency Requirements

Oral and Written Communication
Quantitative Literacy
Foreign Language

University GER Distribution Requirements

Arts	3 cr
Humanities	6 cr
Social Sciences	6 cr

Natural Sciences	6 cr
Cultural Diversity	3 cr
Total	24 cr

CURRICULUM FOR THE COMMUNITY ENGAGEMENT AND EDUCATION PROGRAM

Requirements for all CEED majors:

Credits	Course
3 cr from the following	English 201,** Strategies for Academic Writing English 202, Writing in the Humanities English 205,** Business Writing English 206,** Technical Writing English 207,** Health Science Writing English 214,** Writing in the Professions: (subtitle) English 230, Writing with Style
3 cr	Ed Pol 111, Organizing for Social Action in Urban Communities
3 cr	Ed Pol 112, Introduction to Community Education
3 cr	Ed Pol 113, The Milwaukee Community
3 cr	Ed Pol 114, Community Problems
3 cr	Ed Pol 375, Cultural Foundations of Education
3 cr	Ed Pol 506, Research Techniques for Community Organizers and Community Educators
3 cr	Ed Pol 601, Foundations of Community-Based Organizations
3 cr	Cultural Diversity – choose from: Ed Pol 460, The Chicano Experience Ed Pol 532, Male Identity: Education and Development Ed Pol 533, Educating Black Males: Theories, Methods, and Strategies Ed Pol 560, Education and Hispanics Ed Pol 561,* Education Issues in American Indian Communities Ed Pol 610, Reproduction of Minority Communities Ed Pol 620, History of the Education of African Americans Ed Pol 621,* History of Native Education and Policy Development Ed Pol 624, Gender and Education Ed Pol 625,* Race Relations in Education Ed Pol 626, Antiracist Education Ed Pol 630, Race and Public Policy in Urban America Child Care submajors choose 625 or consult with advisor.
39 cr (Child and Family Services submajor requires 30 cr)	Lower-Division Electives – upper- or lower-division courses from any school/college. Students may earn elective units through Educational Policy and Community Studies courses, including prior professional educational experience, transfer units, or other UWM courses.

Total 66 cr (57 for CFS)

* Meets University GER Cultural Diversity Requirement also.

** Meets University GER Oral and Written Communication Part B Competency requirement.

In addition to these common requirements, students must complete one of the following sets of requirements:

CEED—no submajor:

Educational Policy Foundations	12 cr Ed Pol 300 level or higher; a maximum of 6 cr of fieldwork (Ed Pol 409, 688, or 698) may be used toward meeting this requirement; Ed Pol 499 cannot be used for this requirement.
Upper-Division Electives	15 cr 300 level or higher from any school/college; including upper-division

transfer units. These courses should be chosen by the student in consultation with an Educational Policy and Community Studies advisor.

Total 30 cr

Submajor-specific Requirements

CEED – Community-Based Organizations Policy and Leadership submajor

6 cr CBO Policy Analysis Required	Ed Pol 602, Proposal Writing and Fundraising Skills for Community-Based Organizations
6 cr from the following: CBO Policy Analysis Elective	Ed Pol 605, Community-Based Organization Funding Ed Pol 409, Fieldwork/Practicum in Education and the Community Ed Pol 603, Policy Analysis for Community-Based Organizations Ed Pol 604, Marketing for Community-Based Organizations Ed Pol 510, Human Relations for Community Organizations and Community Engagement Ed Pol 609, Community Partnerships Ed Pol 610, Reproduction of Minority Communities Ed Pol 612, Community Participation and Power Ed Pol 630, Race and Public Policy in Urban America Ed Pol 633, Community Development for Low-Income and Minority Communities
6 cr from the following: Management and Leadership	Ad Ldsp 507, Introduction to Group Leadership Ad Ldsp 537, Leadership and Management of Volunteer Programs Ad Ldsp 581, Administration and Supervision in Early Childhood Programs Ad Ldsp 582, Operations Management in Early Childhood Programs Ad Ldsp 607, Coordination of Staff Development and Training Program Ad Ldsp 617, Leadership in Youth-Serving Organizations Ad Ldsp 647, Evaluation of Adult, Continuing, and Higher Education Programs Ad Ldsp 667, Program Planning in Adult Education
12 cr Upper-Division Electives	300-level or higher from any school/college or transfer credit equivalent. See Professor Michael Bonds.
Total 30 cr	

CEED – Child Care submajor

Also listed below are course substitutions for students who matriculate into the department with an associate of applied science (AAS) degree in Early Childhood Education under the department's articulation agreement with the Wisconsin Technical College System (WTCS).

NOTE: Students completing the Administrator Track also receive a Certificate in Child Care Administration from the UWM Center for Early Childhood Professional Development and Leadership, and earn the Wisconsin Professional Credential for Child Care Administrators from The Registry.

6 cr Educational Policy Foundations	Ed Pol 375, Cultural Foundations of Education or Ed Pol 530, Urban Education: Foundations Ed Pol 534, The Student at Risk (Causes) or Ed Pol 535, Educating At-Risk Students
6 cr Child Care Foundations	Ed Pol 381, Introduction to Child Care (WTCS AAS substitute: Analysis of Child Care Environments) Ed Pol 383, Child Care Programming: (subtitle) (WTCS AAS substitute: Developing Early Childhood Programs)
3 cr Program Focus	CurrIns 585, Best Practices in Early Childhood for Children and Families (WTCS AAS substitute: Regulation of Child Care)

Plus the following, for either the Educator or Administrator track:

9 cr Educator Track Requirements	Ed Pol 302, Approaches to Relationships in the Child Care Setting Ed Pol 340, Organizing and Operating a Child Care Center Ed Pol 416, Analysis of Child Care Environments
6 cr Educator Track Electives	300-level or higher from any school/college or transfer credit equivalent (WTCS AAS Substitute: CurrIns 301, Infants and Toddlers Care, 3 cr; and CurrIns 302, Curriculum at the Pre-Kindergarten and Kindergarten Levels, 3 cr.)
or 15 cr Administrator Track Requirements	Ed Pol 582, Operations Management in Early Childhood Programs Ed Pol 584, Early Childhood Programs and the External Environment Ad Ldsp 581, Administration and Supervision in Early Childhood Programs Ad Ldsp 583, Financial Management and Planning in Early Childhood Programs Ad Ldsp 586, Administrative Seminar: Leadership in Early Childhood Programs

Total 30 cr

CEED – Community Leadership submajor

3 cr Community Leadership Foundation	Ed Pol 315, Group Process and Civic Engagement
3 cr from the following: Professional Standards	Ad Ldsp 579, Current Topics: (Leadership and Ethics) Ed Pol 510, Human Relations for Community Organizations and Community Engagement
9 cr from the following: Community Leadership Concentration	Ed Pol 409, Fieldwork/Practicum in Education and the Community Ed Pol 603, Community Policy Analysis Ed Pol 607, Service Learning and Community Engagement Ed Pol 608, Social Media and Technology for Community Engagement Ed Pol 609, Community Partnerships Ed Pol 610, Reproduction of Minority Communities Ed Pol 612, Community Participation and Power Ed Pol 630, Race and Public Policy in Urban America Ed Pol 633, Community Development for Low-Income and Minority Communities
3 cr from the following: Management and Leadership	Ad Ldsp 507, Introduction to Group Leadership Ad Ldsp 537, Leadership and Management of Volunteer Programs Ad Ldsp 607, Coordination of Staff Development and Training Program Ad Ldsp 617, Leadership in Youth-Serving Organizations Ad Ldsp 647, Evaluation of Adult and Continuing Education Programs Ad Ldsp 667, Program Planning in Adult Education
3 cr from the following: Social/Historical Foundations	Commun 472, Rhetoric of Radicalism in the United States Ed Pol 640, The Rise and Fall of America's Southern Civil Rights Movement Ed Pol 650, The Civil Rights Movement in Northern Cities Hist 440, History of the American Working Classes Hist 446, African Americans Since the Civil War Hist 460, The History of Poverty in America Hist 468, The American Feminist Movement Sociol 235, Social Change in the Global Economy Sociol 304, Political Sociology Sociol 321, Contemporary Issues of the American Indian Sociol 323, Perspectives on Latino Communities Sociol 324, Comparative Race Relations Sociol 325, Social Change Sociol 333, Social Class in Industrial Society
3 cr from the following: Capstone/Practicum	WGS 303, Feminist Activism and Movements: (subtitle) Ed Pol 409, Fieldwork/Practicum in Education and the Community Ad Ldsp 630, Field Work in Schools, Agencies, and Institutions Nurs 403, Practice, Research, and Leadership Role Development I WGS 489, Internship in Women's Studies

6 cr
Upper-Division Electives
Total 30 cr

Commun 698, Internship in Communication
300-level or higher from any school/college

CEED – Child and Family Services submajor

9 cr
Social Work Lower Division
Soc Wrk 100, Introduction to Social Work
Soc Wrk 206, Introduction to Social Welfare Policy
Soc Wrk 250, Human Behavior and the Social Environment

3 cr from the following:
CBO Practice
Ed Pol 602, Proposal Writing and Fundraising Skills for Community-Based Organizations
Ed Pol 604, Community Policy Analysis
Ed Pol 605, Community-Based Organization Funding
Ed Pol 633, Community Development for Low-Income and Minority Communities

3 cr from the following:
At-Risk Children
Ed Pol 534, The Student at Risk (Causes)
Ed Pol 535, Educating At-Risk Students

3 cr from the following:
Youth Work
Ed Pol 580, An Overview of Child/Youth Care
Soc Wrk 580, An Overview of Child/Youth Care
ExcEduc 580, An Overview of Child/Youth Care

3 cr Race Relations
Ed Pol 625, Race Relations in Education

3 cr Fieldwork
Ed Pol 409, Fieldwork/Practicum in Education and the Community

5 cr Social Work
Soc Wrk 310, Social Work Methods I
Soc Wrk 562, Child and Family Services

10 cr Upper-Division Electives
Total 39 cr.
300-level or higher from any school/college

COURSE OF STUDY: MINOR

The minor in Community Engagement and Education is open to all undergraduate students, but should be of particular interest to majors in Africology, anthropology, business, communication, curriculum and instruction, philosophy, political science, psychology, social welfare, and sociology.

With this minor, students can learn about local urban communities and how to improve them. This practical knowledge can provide a foundation for building a career in human services.

Students may declare the minor after completing at least 45 credits, but prior to completing 75 credits.

The minor consists of 18 credits distributed in the following manner:

3 cr Ed Pol 112, Introduction to Community Education
3 cr Ed Pol 114, Community Problems
12 cr Upper-Division Ed Pol Courses

Courses

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Major in Educational Studies

Web Home Pages:

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Educational Studies. A non-certification bachelor's degree as well as a second undergraduate degree program to prepare educators in non-school settings. For admission and program information, contact the Educational Studies program advisor, Enderis Hall 209, (414) 229-4721.

The Educational Studies major, based in the Department of Administrative Leadership, is an individualized professional education program leading to a Bachelor of Science degree or a second undergraduate degree in Educational Studies. It is an interdisciplinary degree option for students who wish to examine education as a discipline or to pursue careers as educators in non-school settings. In particular, the major provides opportunities for study in the areas of adult education, youth leadership, and training and workforce development.

It is recommended that students declare Educational Studies as their intended major prior to admission to ensure meeting program requirements. Contact the Office of Academic Services for more information, (414) 229-4721.

Admission

1. Completion of a minimum of 58 degree credits with a minimum GPA of 2.50;
2. Completion of the UWM Oral and Written Communication Competency-Part A;
3. Completion of the UWM Quantitative Literacy Competency-Part A; and
4. Submission of an Educational Studies Program Plan developed with an academic advisor, listing courses to be taken.

Course of Study

The major is based in the Department of Administrative Leadership, and students, with their advisors, develop a course of study that emphasizes coursework appropriate to the academic/professional goals of the student. Currently the focus areas are adult education, youth leadership, and training and workforce development.

Degree Requirements

A minimum of 128 credits is needed for graduation. Students must satisfy all UWM, School of Education, and Educational Studies program requirements, and have satisfactorily completed the following minimum requirements:

Educational Studies Core Curriculum Requirements. A total of 36 credits is required in liberal arts coursework with 9 credits in each of the following areas: the humanities, fine arts, natural sciences, and social sciences. For courses that satisfy the distribution requirements in these areas, see the current *Schedule of Classes*.

Students not enrolled in a degree program in an accredited institution prior to September 1986 must also meet the General Education Requirements (GER).

Educational Studies Major. The Educational Studies Major is a means of developing professional skills. It requires completing at least 42 credits, 34 of them in the School of Education, with a 2.75 grade point average overall. The major contains three components:

Focus Area. A minimum of 18 credits in the chosen area of concentration (i.e., adult education, youth leadership, or training and workforce development).

Fieldwork. 3-6 credits. Practical experience applying the professional fieldwork skills of the student in an appropriate work setting.

Common Learning Component. Each student must earn 24 credits in coursework that develops knowledge of social cultural perspectives, human development and learning, program development, and communication skills/group processes. Contact the Office of Academic Services for a list of acceptable course titles.

Advanced-Level Coursework Outside the School of Education. Students enrolled as Educational Studies majors must complete a minimum of 12 credits of advanced-level coursework offered through departments outside the School of Education. Courses must be numbered 300 or above.

General University Electives. The program allows for a significant number of general University electives. For example, Educational Studies majors may elect supportive coursework in psychology, business, information studies, and/or other appropriate schools and departments.

Educational Studies Second Degree Requirements

1. Complete 42 credits.

- At least 30 of the program credits must be earned in residence at the University of Wisconsin-Milwaukee and following admission to the Educational Studies Program. The remaining 12 credits may be transferred from previous institutions/programs or earned inclusively within the Educational Studies program.
- At least 20 of the 42 credits must be earned in upper-division courses (300 level or above). The common learning components allow for accommodation of this requirement.
- Earn at least 18 credits in selected focus areas. Select from adult education, youth leadership, and training and workforce development.
- Earn 3 credits in fieldwork within the selected focus area. The fieldwork placement will be determined by the faculty advisor and academic advisor.
- Earn 24 credits in the common learning components. These credits will be selected in consultation with the faculty advisor: social cultural perspectives, human development and learning, program development, and communication skills and group processes.

2. Achieve a 2.75 GPA on all focus area and common learning components credits.

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Administrative Leadership

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The Department of Administrative Leadership offers a Bachelor's Degree in Educational Studies. The degree is an interdisciplinary degree option for students who wish to examine education as a discipline or to pursue careers as educators in non-school settings. Students work with an advisor to develop a course of study appropriate to the academic and professional goals of the student. In particular, the major provides opportunities for study in the areas of adult education, youth leadership, and training and workforce development.

For admission and program information, contact the Educational Studies program advisor, within the Office of Student Services, located in Enderis Hall 209, (414) 229-4721.

Admission Requirements

1. Completion of a minimum of 58 degree credits with a minimum GPA of 2.5;
2. Completion of the UWM Oral and Written Communication Competency Part A;
3. Completion of the UWM Quantitative Literacy Competency Part A; and
4. Submission of an Educational Studies Program Plan developed with an academic advisor, listing courses to be taken.

Degree Requirements

A minimum of 128 credits is needed for graduation. Students must satisfy all UWM, School of Education, and Educational Studies program requirements, and have satisfactorily completed the following minimum requirements:

1. Students not enrolled in a degree program in an accredited institution prior to September 1986 must also meet the University's General Education Requirements (GER).
2. Educational Studies Major. The Educational Studies Major is a means of developing professional skills. It requires completing at least 42 credits, 34 of them in the School of Education, with a 2.75 grade point average overall. The major contains three components:
 - Focus Area. A minimum of 18 credits in the chosen area of concentration (i.e., adult education, youth leadership, or training and workforce development).
 - Fieldwork. 3-6 credits. Practical experience applying the student's professional skills in an appropriate work setting.
 - Common Learning Component. Each student must earn 24 credits in coursework that develops knowledge of social/cultural perspectives, human development and learning, program development, and communication skills/group processes. Contact the Office of Student Services for a list of acceptable course titles.
3. Advanced-Level Coursework Outside the School of Education. Students enrolled as Educational Studies majors must

complete a minimum of 12 credits of advanced-level coursework offered through departments outside the School of Education. Courses must be numbered 300 or above.

4. General University Electives. The program allows for a significant number of general University electives. For example, Educational Studies majors may elect supportive coursework in psychology, business, information studies, and/or other appropriate schools and departments.

Educational Studies Second Degree Requirements

1. Complete 42 credits.

- At least 30 of the program credits must be earned in residence at the University of Wisconsin-Milwaukee and following admission to the Educational Studies Program. The remaining 12 credits may be transferred from previous institutions/programs or earned inclusively within the Educational Studies program.
- At least 20 of the 42 credits must be earned in upper-division courses (300 level or above). The common learning components allow for accommodation of this requirement.

2. Earn at least 18 credits in selected focus areas. Select from: adult education, youth leadership, and training and workforce development.

- Earn 3 credits in fieldwork within the selected focus area. The fieldwork placement will be determined by the faculty advisor and academic advisor.
- Earn 24 credits in the common learning components. These credits will be selected in consultation with the faculty advisor: social cultural perspectives, human development and learning, program development, and communication skills and group processes.

3. Achieve a 2.75 GPA on all focus area and common learning components credits.

Other Programs

The Department of Administrative Leadership also offers master's degree programs and specializations within the Urban Education Doctoral Program in Adult, Continuing, and Higher Education Leadership, and Educational Administration.

The Adult, Continuing, and Higher Education Leadership specialization prepares students for positions of leadership in a wide range of post-secondary programs, including vocational and technical education, university extension, continuing education, training and human resource development, instructional design, instructional technology, adult basic education, adult literacy, and community education.

The Educational Administration specialization prepares teachers for administrative positions in elementary and secondary schools as a principal, supervisor/director of instruction, director of special education and pupil services, and school business manager. A post-master's Specialist Certificate program for the school superintendent license also is offered through the Educational Administration specialization.

Consult the University of Wisconsin-Milwaukee [Graduate School Bulletin](#) for admission criteria and procedures for graduate degree or certificate programs.

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[Peck School of the Arts](#)

Art & Design

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Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University academic requirements. Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty:

1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/.)
2. Portfolio of artworks. The portfolio should ideally include 8-10 examples of the applicant's artwork (digital images on CD only), preferably from courses taken over the last two years. Include at least three drawings from observations (not from photographs). Label the digital images on CD with artist's name, media, size, and year of completion. Do not send actual work samples.
3. Copy of high school transcript or, for transfer students, college transcript(s). Unofficial copies are acceptable for this purpose.
4. Personal statement (one or two pages) describing how past experiences, interests, and concerns relate to college choice and career goals. Students who have not had significant prior exposure to formal art courses, or who do not have a portfolio of artworks to submit, are encouraged to write more extensive personal statements. The Department of Art & Design will accept students who do not have an art background but have a desire to learn.
5. Two confidential letters of recommendation, preferably from instructors familiar with the student's artwork and/or academic ability. Letters should be submitted in sealed envelopes and will remain confidential and the property of the Department of Art & Design.

Art & Design applicants must submit their portfolios as one complete packet containing all of the above items, and may do so in person or by mail to the address indicated below. Portfolios should NOT be submitted along with the initial application for admission to the University. Art & Design continues to accept students until UWM capacity is met.

Art & Design awards art scholarships based on this incoming portfolio. To be considered for art scholarships, the portfolio submission deadline is February 15. Art & Design scholarship notification will be in March.

Send materials to:

Director of First Year Program - Portfolio
Dept. of Art & Design - Mitchell Hall 371
Peck School of the Arts

University of Wisconsin-Milwaukee
3203 N. Downer Ave.
Milwaukee, WI 53211

General information: 414-229-4200; art-info@uwm.edu; uwm.edu/arts/art-and-design/.

Art-Intended Classification

Students accepted into the Art & Design program receive the Art-Intended designation and priority registration over non-art majors. The Art-Intended designation applies to all incoming freshman and transfer students. To advance to the Art & Design major, students must complete the 36 credits outlined below with a cumulative GPA of 2.5 or higher:

1. complete 12 credits in academic subjects outside of PSOA, including courses that fulfill the university-wide Oral and Written Communications Competency Part A (OWC-A) and Quantitative Literacy Competency Part A (QL-A) requirements;
2. complete First Year Program courses (15 credits; see course list below); and
3. complete 9 credits required 200-level studios (see course list below).

After completion of the above, the Art-Intended designation changes to ArtBFA, ArtEdBFA, or ArtBA. All First Year Program courses must be completed in the first 45 credits.

The required First Year Program courses are:

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 108	2D Concepts	3
Art 109	3D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3

200-Level Studio Requirements: 9 cr

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year.

Select 3-6 credits from the following list:

Art 201	Drawing II	3
Art 208	Color Studio	3
Art 212	Introduction to Digital Studio Practice	3
Art 221	Introduction to Design	3
Film 222	Introduction to Digital Filmmaking	3
Art 227	Design Workshop: (subtitle)	3
Art 243	Introduction to Painting	3
Art 249	Painting and Drawing Workshop: (subtitle)	3
Art 253	Introduction to Photography	3
Art 259	Photography Workshop: (subtitle)	3
Art 277	Design for Digital Fabrication	3
Art 291	Introduction to Print and Narrative Forms: (subtitle)	3
Art 299	Printmaking Workshop: (subtitle)	3

Select 3-6 credits from the following list:

Art 231	Introduction to Fibers	3
Art 238	Fibers Workshop: (subtitle)	3
Art 261	Introduction to Sculpture	3
Art 269	Sculpture Workshop: (subtitle)	3
Art 271	Introduction to Jewelry and Metalsmithing	3
Art 278	Introduction to Industrial Craft	3

Art 279	Jewelry and Metalsmithing Workshop: (subtitle)	3
Art 281	Introduction to Ceramics	3
Art 289	Ceramics Workshop: (subtitle)	3

Art Education Program

Art Ed Intended designation is given to all students intending to pursue the BFA (Art Education). Art Ed Intended students will get priority registration in art courses over non-art majors. Art Ed Intended students may apply to this program upon completion of 30 art credits if the following requirements have been fulfilled:

1. First Year Program courses in art (see above).
2. Oral and Written Communication Competency (Part A).
3. Quantitative Literacy Competency (Part A).
4. Communication Proficiency.
5. 2.75 cumulative grade point average (GPA).
6. Basic Skills Requirement. This requirement can be fulfilled through a test called Core, or through specific scores in college entrance tests (ACT/SAT/GRE). Records of college entrance tests can only be accepted when they are fewer than 5 years old at the time of applying for the Art Education program. See details below on accepted scores:

Core Academic Skills for Educators Test (Begins September 1, 2014)

Core Test in Reading	156 Passing Score
Core Writing	162 Passing Score
Core Math	150 Passing Score

ACT/SAT/GRE

ACT	Composite 23	Math 20	English/WR 20	Reading 20
SAT	Composite 1070	Math 450	Verbal 450	
GRE	Composite 298	Math 145	Verbal 150	

7. Dept. of Public Instruction (DPI) Act 31 requirement. (This can be met by taking the Act 31 Workshop, History 263, Ethnic Studies 203, Anthropology 213, or English 276, subtitled "Literature, History, and Sovereignty of Upper Midwest Indians" only.)
8. Completion of ArtEd 227 Introduction to Art Education, with a B or higher.

After successful completion of the above, students should contact the Peck School of the Arts Student Services Office for an application to enter the BFA (Art Education) Program. The application requires the following documents:

1. Application form.
2. Copies of college transcripts (unofficial copies are acceptable for this purpose) demonstrating completion of all Pre-Art Ed requirements (1 through 7 above).
3. Copy of Basic Skills Test Requirement.
4. One- to two-page personal statement describing how past experiences, interests, and concerns relate to the decision to apply to the Art Education Program. Students who have had experience working with young people in the past should describe their teaching experiences to date. Students who have not had significant prior teaching experience are encouraged to write more extensive personal statements. The Art Education Area will accept students who do not have prior teaching experience, provided they demonstrate a disposition to learn to teach.
5. Assessment of performance in Art Ed 227, Introduction to Art Education. Candidates must achieve a grade of B or better in Art Ed 227, demonstrating proficiency in the knowledge, skills, and dispositions required of teacher candidates to be considered for the program.

Applicants are requested to submit application materials as **one complete packet** containing all of the above items, all of which will be used as criteria for acceptance to the program. The recommended submission deadline is April 15. After grades have been posted for the spring semester (approximately 7 weeks after the submission deadline), applicants

will be notified of their status.

Send application to:

Art Education Area Head

Mitchell Hall 371

Department of Art & Design

Peck School of the Arts

University of Wisconsin - Milwaukee

3203 N. Downer Ave.

Milwaukee, WI 53211

For further details and procedures, see the general section on teacher certification degree requirements at the beginning of the Peck School of the Arts section of the undergraduate catalog.

Certification Requirements

Following admission to the Art Education Program (see admission requirements), and successful completion of the specified Art Education course of studies, a student seeking recommendation for teacher certification must successfully fulfill the following requirements:

1. fulfill all degree requirements;
2. fulfill the field experience requirement;
3. maintain a 2.75 cumulative GPA or higher while being in the program;
4. pass the Praxis II Art Content Exam;
5. successfully complete student teaching; and
6. demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of art education through the use of a **Teaching Portfolio** (see description below):

The Art Education Area and the Wisconsin Department of Public Instruction require that students compile a teaching portfolio that demonstrates teaching proficiency. The required reflections, artifacts, statements, and assessment composing this portfolio will be compiled mostly as a part of their major two art education methods classes (Art Ed 327 and 328). Fewer documents will be produced during their student teaching capstone classes (Art Ed 425 and 426). Some of the documents that this portfolio includes are: copy of current resume, teaching philosophy, reflections on the Ten Wisconsin Teaching Standards, artifacts supporting the reflections showing your work as a teacher and your students' work, lesson plans written and taught in field experiences, field experience assessments, clinical assessments during student teaching, and your professional development plan.

7. Teacher Performance Assessment, EdTPA (see explanation below):

This is a performance-based test in which student teachers plan, instruct, and assess a visual arts lesson plan for K-12 following the requirements outlined in the EdTPA Handbook. Among these requirements student teachers must show strong curriculum based on four types of objectives, the use of academic language derived from the research of art content and contexts, and cohesive sequencing of art appreciation, artmaking, and art critique. Along with all this, students should demonstrate a theoretical use of visual art learning theory, elaborated skills in the documentation of in-progress and finalized student work, and an ability to reflect on their own teaching, as a way to inform the following steps in their instructional sequence.

Area of Concentration Requirements and Enrollment Management

In order to maintain the highest quality of service to our students, all areas (Ceramics, Cross-Disciplinary Studio, Digital Studio Practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography and Imaging, Print and Narrative Forms, Sculpture, Design and Visual Communication, and Art Education) may select their own enrollment management mechanisms. Options available to areas include portfolio review, gateway courses, registration prioritizing (ex: "seniors only" and/or "majors only" courses), higher GPA for the area of concentration, or other appropriate

mechanisms. Students who successfully matriculate as BFA degree candidates should make themselves familiar with the requirements of their chosen area (as outlined in the undergraduate catalog). Students also should discuss area requirements with area faculty to ensure that they understand fully what will be required of them.

Appeal Process

An appeal process is established for students who do not meet the department's criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

Laptop Requirement

Laptops are required for all Art & Design programs. The goal of the Peck School of the Arts laptop requirement is to provide the opportunity for students to work extensively and intuitively with the most significant contemporary tool for their work so that they will excel not only in their courses but also in their profession after they graduate.

Degree Requirements

Bachelor of Fine Arts (Studio Art). The Bachelor of Fine Arts (Studio Art) degree requires a total of 130 credits for graduation distributed as follows:

University Core Curriculum (includes 12 cr Art History and 9 cr PSOA Arts Distribution)	45
First Year Program	15
Art and Design Courses	63
Critical Thinking	6
BFA Exhibition	1
Total	130

Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Bachelor of Fine Arts (Studio Art) in Design and Visual Communication. The Bachelor of Fine Arts in Design and Visual Communication degree requires a total of 130 credits for graduation distributed as follows:

University Core Curriculum (includes 12 cr Art History and 9 cr PSOA Arts Distribution)	45
First Year Program	15
Art and Design Courses	63
Critical Thinking	6
BFA Exhibition	1
Total	130

Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Bachelor of Fine Arts (Art Education). The Art Education program requires a total of 130 credits for graduation distributed as follows:

University Core Curriculum (includes 12 cr Art History, 9 cr Education, and 6 cr. PSOA Arts Distribution*)	45
First Year Program	15
Required Studio Courses**	39
Critical Thinking	3
Art Education Courses	28
Total	130

* 12 cr Art History are included in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER. 9 cr School of Education courses are included in the Core Curriculum (See academic advisor). PSOA Arts Distribution for Art Education is 6 credits that the student must take within PSOA, outside of Art & Design, in two of the four other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

** Art Education students are required to take the following Art Studio courses as part of these 39 credits: Art 201 (Drawing II), Art 342 (Introduction to Figure Drawing), 18 cr of 200 level courses reflecting 2D, 3D studio and digital studio experiences, and 12 cr of upper-level studios to create further concentration in a studio area of choice. See academic advisor for 2D, 3D, and digital course designations at the 200 level, and for upper-level studios.

Bachelor of Arts (Art). The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

University Core Curriculum (includes 12 cr Art History and 9 cr PSOA Arts Distribution)	45
First Year Program	15
Art and Design Courses	18
Directed Electives	32
Critical Thinking	6
Professional Practices	3
BA Project	1
Total	120

Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Degree Programs

BACHELOR OF FINE ARTS (STUDIO ART)

This undergraduate degree prepares students for entrance into professional art fields. Once students meet the 36-credit Art-Intended requirements outlined above, they are admitted to the Art & Design program. In addition to satisfying the core curriculum, art students select studio courses from both 2D and 3D disciplines, take required art history courses, choose studio electives, and begin satisfying the requirements of their declared art area concentration.

A choice of curricula is offered to permit students to concentrate in ceramics, cross-disciplinary studio, digital studio practice, fibers, jewelry and metalsmithing, painting and drawing, photography and imaging, print and narrative forms, or sculpture. Students must complete a minimum of 24 credits in their area of concentration but may take more by choosing additional studio electives in their area.

In order to graduate, students must complete two 3-credit critical thinking courses and a 4-credit capstone: Art 604 Professional Practices (3 cr) and Art 605 BFA Exhibition (1 cr). Students must complete a total of 85 credits of art to graduate with a BFA (Studio Art).

Courses

1. Art History: 12 cr (*These credits are part of the University Core Requirements. 6 cr, Art History 101 and 102, count as Humanities GER.*)

ArtHist 101	Ancient and Medieval Art and Architecture	3
ArtHist 102	Renaissance to Modern Art and Architecture	3
ArtHist	Any Advanced Course	3
ArtHist	Any Advanced Course	3

2. PSOA Distribution: 9 cr (*part of University Core*)

Choose any courses within 3 of the 4 PSOA Departments outside of Art & Design (Dance, Music, Theatre, or Film, Video, Animation, and New Genres).

3. Art & Design First Year Program: 15 cr

4. Art & Design 200-level Studio Requirement: 9 cr

5. Art & Design Electives: 27 cr

15 credits must be 300-level and above studio courses.

6. Critical Thinking: 6 cr

Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
Art 509	Art & Design Seminar: (subtitle) (Required OWC-B course)	3

7. Area of Concentration Requirements: 24 cr

(*see specific course requirements for each area below*)

8. Senior Capstone: 4 cr

Art 604	Professional Practices (Required QL-B course)	3
Art 605	BFA Exhibition	1

CERAMICS

1. Ceramics Introductory Course: 3 cr

Art 281	Introduction to Ceramics	3
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2. Ceramics Studio Courses: 18 cr.

Select any six courses from the following list:

Art 381	Throwing and Wheel Construction	3
Art 382	Building from the Figure in Clay	3
Art 383	Molds and Multiples in Ceramics	3
Art 384	Experimental Processes in Woodfiring I	3
Art 389	Ceramics Workshop: (subtitle)	1-3
Art 481	Ceramics Special Topics and Portfolio I	3
Art 482	Ceramics Special Topics and Portfolio II	3
Art 483	Ceramics Special Topics and Portfolio III	3
Art 489	Ceramics Workshop: (subtitle)	1-3
Art 584	Experimental Processes in Woodfiring II	3

3. Ceramics Capstone Course: 3 cr

Art 583	Senior Project in Ceramics	3
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Art BFA – Sample Curriculum in Ceramics

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 109	3D Concepts	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Freshman Year (Spring) First Year Program

Art 108	2D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
Art 281	Introduction to Ceramics	3
or		
Art	200-level studio in Art	
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Total Freshman Year 30

Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Art 281	Introduction to Ceramics	3
or		
Art	200-level studio in Art	
Art	200-level studio in Art	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
	University Core ¹	3
Subtotal		15

Sophomore Year (Spring)

Art 381	Throwing and Wheel Construction	3
Art 384	Experimental Processes in Woodfiring I	3
or		
Art 389	Ceramics Workshop: (subtitle)	
Art	200-level studio in Art	3
Art	Art & Design Elective	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	University Core ¹	3
Subtotal		18

Total Sophomore Year 33

Junior Year (Fall)

Art 381	Throwing and Wheel Construction	3
or		
Art 382	Building from the Figure in Clay	

or		
Art 383	Molds and Multiples in Ceramics	
Art	Art & Design Elective	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		18
Junior Year (Spring)		
Art 384	Experimental Processes in Woodfiring I	3
or		
Art 381	Throwing and Wheel Construction	
or		
Art 489	Ceramics Workshop: (subtitle)	
Art 481	Ceramics Special Topics and Portfolio I	3
Art 509	Art & Design Seminar: (subtitle)	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	33
Senior Year (Fall)		
Art 604	Professional Practices	3
Art 482	Ceramics Special Topics and Portfolio II	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
Subtotal		18
Senior Year (Spring)		
Art 605	BFA Exhibition	1
Art 583	Senior Project in Ceramics	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
	University Core ¹	3
Subtotal		16
Total	Senior Year	34

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

CROSS-DISCIPLINARY STUDIO

The Cross-Disciplinary concentration in Art & Design allows students to combine two studio areas. Students must select a “home” area of concentration, and then select a second area as the cross-disciplinary focus. Students must complete the area course requirements and capstone course for their home concentration, and then fulfill at least 12 credits in their cross-disciplinary focus area (at least 6 of these credits must be at 300 level or above).

Students with a Cross-Disciplinary Studio major should follow the 4-year curriculum for their home concentration, and work with their advisor to schedule the coursework for their cross-disciplinary focus.

DIGITAL STUDIO PRACTICE

Students wishing to major in Digital Studio Practice must complete the following requirements:

1. meet all Art & Design Department admission and minimum GPA requirements;
2. complete Digital Studio Practice Introductory Requirement (3 credits): Art 212 (Introduction to Digital Studio: A/V Strategies) and one other 200-level class (in your cross-disciplinary focus area; see below);
3. pass Digital Studio Practice portfolio review. First opportunity to apply to Portfolio Review takes place at the completion of Art 212;
4. complete 12 credits in a cross-disciplinary focus (6 of which must be at 300 level and above); and
5. students in Digital Studio Practice are required to have a laptop computer with required software beginning with Art 212. Visit <http://uwm.edu/arts/apply/laptop/> for more information.

1. Digital Studio Practice Introductory Course: 3 cr

Art 212	Intro to Digital Studio: A/V Strategies	3
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2. Digital Studio Practice Core Courses: 18 cr

Part I. Required Core Course 1: 3 cr

Art 312	Intermediate Digital Studio	3
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Part II. Required Core Course 2: 3 cr

Art 315	Participatory Art and Social Practice	3
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or

Art 316	Interactive Art	3
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Part III. Required Core Choices: 12 cr

Select any four courses from the following list:

(subtitled classes may be taken twice with change of topic)

Art 314	Digital Painting	3
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Art 315	Participatory Art and Social Practice	3
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Art 316	Interactive Art	3
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Art 318	Physical Computing	3
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Art 324	Web Design	3
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Art 327	Digital Media Workshop: (subtitle)	3
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Art 378	Industrial Processes	3
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Art 393	Digital Printmaking	3
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Art 405	Product Realization	3
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Art 412	Advanced Digital Studio	3
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Art 418	Advanced Physical Computing: (subtitle)	3
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Art 426	Motion Graphics	3
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Art 456	Advanced Digital Imaging	3
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Art 478	Digital Fabrication and Craft	3
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3. Digital Studio Practice Capstone Course: 3 cr

Art 612	Senior Project in Digital Studio Practice	3
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4. Cross-Disciplinary Focus: 12 credits

All DSP students must choose a secondary focus area within the Department of Art & Design, with which to combine their digital skill sets. Students must fulfill at least 12 credits in their cross-disciplinary focus area (at least 6 of these credits must be at 300 level or above).

Art BFA – Sample Curriculum in Digital Studio Practice

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 108	2D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Freshman Year (Spring) First Year Program

Art 106	Art Survey	3
Art 109	3D Concepts	3
Art 212	Introduction to Digital Studio: A/V Strategies*	3
or		
Art	200-level studio in Art (Art 261 or 277 recommended)	
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Total Freshman Year 30

Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Art 212	Introduction to Digital Studio: A/V Strategies*	3
or		
Art	200-level studio in Art (Art 261 or 277 recommended)	
Art	200-level studio (Art 221, 231, 241, 253, 261, 271, 281, or 291)	3
Art	200-level studio in Art	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
	University Core ¹	3
Subtotal		18

* Digital Studio Practice Portfolio Review takes place at the completion of Art 212.

Sophomore Year (Spring)

Art 312	Intermediate Digital Studio	3
Art 315	Participatory Art and Social Practice	3
or		
Art 316	Interactive Art	
Art	Art & Design Elective (Recommend 200- or 300-level cross-disciplinary focus)	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	University Core ¹	3
Subtotal		15

Total Sophomore Year 33

Junior Year (Fall)

Art	300+ Core Choice DSP Studio course (315, 316, 318, 324, 327, 378, 393, 405, or 426)	3
Art	300+ Core Choice DSP Studio course (315, 316, 318, 324, 327, 378, 393, 405, or 426)	3
Art	Art & Design Elective (recommend 300-level or above cross-	3

	disciplinary focus)	
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ² (recommend contemporary or new media art course, or one related to architecture)	3
	University Core ¹	3
Subtotal		18
Junior Year (Spring)		
Art	300+ Core Choice DSP Studio course (315, 316, 318, 324, 327, 378, 393, 405, or 426)	3
Art	Art & Design Elective	3
Art 509	Art & Design Seminar: (subtitle)	3
ArtHist	Advanced Art History choice ² (recommend contemporary or new media art course, or one related to architecture)	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	33
Senior Year (Fall)		
Art 604	Professional Practices	3
Art	300+ Core Choice DSP Studio course (315, 316, 318, 324, 327, 378, 393, 405, or 426)	3
Art	Art & Design Elective (may include DSP Core Choices)	3
Art	Art & Design Elective (may include DSP Core Choices)	3
Art	Art & Design Elective	3
	University Core ¹	3
Subtotal		18
Senior Year (Spring)		
Art 605	BFA Exhibition	1
Art 618	Senior Project in DSP	3
Art	Art & Design Elective (may be Core Choice or cross-disciplinary focus)	3
Art	Art & Design Elective (may be Core Choice or cross-disciplinary focus)	3
	University Core ¹	3
	University Core ¹	3
Subtotal		16
Total	Senior Year	34

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

FIBERS

1. Fibers Introductory Course: 3 cr

Art 231	Introduction to Fibers	3
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2. Fibers Core Courses: 18 cr

Select any six courses from the following list:

Art 332	Woven Structure I	3
Art 333	Pliable Materials/Sculptural Form	3
Art 336	Paint, Print, and Dye on Fabric	3
Art 337	Screenprinting on Fabric	3
Art 431	Special Topics in Fibers: (subtitle)	3
Art 432	Woven Structure II	3
Art 433	Digital Imaging for Fabric	3
Art 435	Mixed Materials: Concept/Object	3
Art 436	Cloth Construction - Surface to Structure	3
Art 539	Fibers Independent Study	1-6
3. Fibers Capstone Course: 3 cr		
Art 531	Senior Project in Fibers	3

Art BFA – Sample Curriculum in Fibers

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 108	2D Concepts	3
or		
Art 109	3D Concepts	
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Freshman Year (Spring) First Year Program

Art 109	3D Concepts	3
or		
Art 108	2D Concepts	
Art 118	Digital Arts: Culture, Theory, Practice	3
Art	Introduction to Fiber	3
212		
or		
Art	200-level studio in Art	
	University Core ¹	3
	University Core ¹	3
Subtotal		15
Total	Freshman Year	30

Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Art 212	Introduction to Fiber	3
or		
Art	200-level studio in Art	
Art	200-level studio in Art	3
Art	200-level studio in Art	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3

	University Core ¹	3
Subtotal		18
Sophomore Year (Spring)		
Art 337	Screenprinting on Fabric	3
or		
Art 336	Paint, Print, and Dye on Fabric	
Art 332	Woven Structure	3
or		
Art 431	Special Topics in Fibers	
or		
Art 435	Mixed Materials: Concept/Object	
Art	Art & Design Elective	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	University Core ¹	3
Subtotal		15
Total	Sophomore Year	33
Junior Year (Fall)		
Art 333	Pliable Material/Sculptural Form	3
Art 336	Paint, Print, and Dye on Fabric	3
or		
Art 433	Digital Imaging for Fabric	
or		
Art 436	Cloth Construction - Surface to Structure	
Art	Art & Design Elective	3
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		18
Junior Year (Spring)		
Art 431	Special Topics in Fibers	3
or		
Art 432	Woven Structure II	
or		
Art 435	Mixed Materials: Concept/Object	
Art 509	Art & Design Seminar: (subtitle)	3
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	33
Senior Year (Fall)		
Art 604	Professional Practices	3
Art 433	Digital Imaging for Fabric	3
or		
Art 436	Cloth Construction - Surface to Structure	
Art	Art & Design Elective	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
Subtotal		18
Senior Year (Spring)		
Art 605	BFA Exhibition	1

Art 531	Senior Project in Fibers	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
	University Core ¹	3
Subtotal		16
Total	Senior Year	34

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

JEWELRY AND METALSMITHING

1. Jewelry and Metalsmithing Introductory Course: 3 cr

Art 271	Introduction to Jewelry and Metalsmithing	3
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2. Jewelry and Metalsmithing Core Courses: 18 cr

Part I. Required Core Courses: 6 cr

Art 371	Construction and Fabrication in Jewelry and Metalsmithing	3
Art 474	Portfolio Development in Jewelry and Metalsmithing	3

Part II. Required Core Choices: 12 cr

Select any four courses from following list:

Art 372	The Multiple in Jewelry and Metalsmithing	3
Art 378	Industrial Processes and Fabrication	3
Art 470	Metal Forming	3
Art 472	Color on Metal	3
Art 473	Special Topics in Jewelry and Metalsmithing (subtitle)	3
Art 478	Digital Fabrication and Craft	3

3. Jewelry and Metalsmithing Capstone Course: 3 cr

Art 575	Senior Project in Jewelry and Metalsmithing	3
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4. Recommended Electives: 18 cr

Â Could include any courses from the following list:

Art 279	Jewelry and Metalsmithing Workshop: (subtitle)	3
Art 379	Jewelry and Metalsmithing Workshop: (subtitle)	3
Art 473	Special Topics in Jewelry and Metalsmithing: (subtitle)	3
Art 479	Jewelry and Metalsmithing Workshop: (subtitle)	3
Art 309	Issues in Contemporary Art: Global Craft Culture	3

Art BFA–Sample Curriculum in Jewelry and Metalsmithing

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 109	3D Concepts	3

	University Core ¹	3
	University Core ¹	3
Subtotal		15
Freshman Year (Spring) First Year Program		
Art 108	2D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
Art 271	Introduction to Jewelry and Metalsmithing	3
	or	
Art	200-level studio in Art	
	University Core ¹	3
	University Core ¹	3
Subtotal		15
Total	Freshman Year	30
Sophomore Year (Fall)		
<i>Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).</i>		
Art 271	Introduction to Jewelry and Metalsmithing	3
	or	
Art	200-level studio in Art	
Art 371	Construction and Fabrication in Jewelry and Metalsmithing	3
Art 378	Industrial Processes and Fabrication	3
	or	
Art	200-level studio in Art	
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
	University Core ¹	3
Subtotal		18
Sophomore Year (Spring)		
Art 372	The Multiple in Jewelry and Metalsmithing	3
Art 478	Digital Fabrication and Craft	3
	or	
Art	200-level studio in Art (Art 231 or 261 or 281)	
Art	Art & Design Elective	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	University Core ¹	3
Subtotal		15
Total	Sophomore Year	33
Junior Year (Fall)		
Art 470	Metal Forming	3
Art 473	Special Topics in Jewelry and Metalsmithing: (subtitle)	3
	or	
Art	Art & Design Elective	
Art	Art & Design Elective	3
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		18
Junior Year (Spring)		

Art 472	Color on Metal	3
Art 474	Portfolio Development in Jewelry and Metalsmithing	3
Art 509	Art & Design Seminar: (subtitle)	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	33
Senior Year (Fall)		
Art 604	Professional Practices	3
Art 473	Special Topics in Jewelry and Metalsmithing: (subtitle)	3
or		
Art	Art & Design Elective	
Art	Art & Design Elective	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
Subtotal		18
Senior Year (Spring)		
Art 605	BFA Exhibition	1
Art 575	Senior Project in Jewelry and Metalsmithing	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
	University Core ¹	3
Subtotal		16
Total	Senior Year	34

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

PAINTING AND DRAWING

1. Painting and Drawing Introductory Course: 3 cr

Art 243	Introduction to Painting	3
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2. Painting and Drawing Core Courses: 18 cr

Part I. Required Core Courses: 15 cr

Art 342	Introduction to Figure Drawing	3
Art 343	Figure Painting	3
Art 441	Advanced Drawing Strategies I	3
Art 443	Painting Strategies	3
Art 543	Painting Studio	3

Part II. Required Core Choices: 3 cr

Select any course from following list:

Art 442	Figure Drawing Explorations	3
Art 541	Advanced Drawing Strategies II	3
Art 543	Painting Studio (recommended retake)	3

3. Painting and Drawing Capstone Course: 3 cr

Art 643	Senior Project in Painting	3
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Art BFA – Sample Curriculum in Painting and Drawing

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 108	2D Concepts	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Freshman Year (Spring) First Year Program

Art 109	3D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
Art	Drawing II	3
201		
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Total Freshman Year 30

Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Art 243	Introduction to Painting	3
Art 342	Introduction to Figure Drawing	3
Art	200-level Studio (Art 231 or 261 or 271 or 281)	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
	University Core ¹	3
Subtotal		18

Sophomore Year (Spring)

Art 343	Figure Painting	3
Art	200-level Studio in Art	3
Art	Art & Design Elective	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	University Core ¹	3
Subtotal		15

Total Sophomore Year 33

Junior Year (Fall)

Art 443	Painting Strategies	3
Art 441	Advanced Drawing Strategies I	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3

Subtotal		18
Junior Year (Spring)		
Art 543	Painting Studio	3
Art	Art & Design Elective	3
Art 509	Art & Design Seminar: (subtitle)	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	33
Senior Year (Fall)		
Art 604	Professional Practices	3
Art 442	Figure Drawing Explorations	3
or		
Art 541	Advanced Drawing Strategies II	
or		
Art 543	Painting Studio (recommend retake)	
Art	Art & Design Elective	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
Subtotal		18
Senior Year (Spring)		
Art 605	BFA Exhibition	1
Art 643	Senior Project in Painting	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
	University Core ¹	3
Subtotal		16
Total	Senior Year	34

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum. Core Curriculum Arts Distribution Requirement: 6 credits are required in Peck School of the Arts courses outside of Art & Design. 3 credits must be taken in 2 different Arts disciplines: Dance, Film, Music, or Theatre.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

PHOTOGRAPHY AND IMAGING

Students in Photography and Imaging (PI) are required to have a laptop computer for their coursework by the first week of class, beginning with Art 350 (Visualizing Ideas in Photography) and Art 357 (Studio Lighting and Digital Imaging) and for all subsequent 400 and 500 level courses in Photography and Imaging. Students are recommended to have a computer for Art 253 (Introduction to Photography). Visit uwm.edu/arts/apply/laptop/ for more information.

Students who major in Photography and Imaging are required to have access to cameras. Please contact the Art & Design Department at 414-229-4200 for an updated list of courses and the required camera equipment.

To be admitted into Photography and Imaging, students must pass the PI Portfolio Review. To be eligible for consideration, students must complete Art 253 (Introduction to Photography) and Art 350 (Visualizing Ideas in Photography) with a B- or better, a cumulative GPA of 2.67 for all PI courses taken, and admission to Art & Design.

After admission into Photography and Imaging, students must:

1. complete 1-2 of the following 2 courses (3-6 credits): Art 357 (Studio Lighting and Digital Imaging) and/or Art 358 (Medium and Large Format Photography);
2. complete Art 452 (Contemporary Issues in Photography) with a grade of B- or better, in addition to completing 2-3 of the following 4 courses (6-9 credits): Art 451 (Special Topics in Photography), Art 454 (Narrative Photography), Art 456 (Advanced Digital Imaging in Photography), and/or Art 458 (Photographic Materials and Processes);
3. complete all 18 credits of the required 300 and 400 level PI courses with a cumulative 2.67 GPA in PI curriculum to enroll in Art 552 (Studio Practice and Research in Photography);
4. complete Art 552 (Studio Practice and Research in Photography) with a grade of B- or better to enroll in Art 553 (Senior Project in Photography); and
5. complete Art 553 (Senior Project in Photography).

Grading Requirements

Prior to consideration for admission in the Photography and Imaging program, students must receive a B- or better in Art 350 (Visualizing Ideas in Photography), with a cumulative 2.67 GPA in all PI courses. Subsequent to admission in the PI program, students must receive a letter grade of B- or better in Art 452 (Contemporary Issues in Photography) and Art 552 (Studio Practice and Research in Photography). Should they fail to do so, students must retake the course and receive a B- or better in order to continue in the program. Any student receiving a second grade of less than B- in any area-required courses would need to formally reapply to the PI program or be dropped from the program. Additionally, students must maintain a cumulative GPA of 2.67 within all PI courses taken.

1. Photography Introductory Course: 3 cr

Art 253 Introduction to Photography 3

2. Photography Required Courses: 18 cr

Part I. Required Core Sequence: 6 cr

Art 350 Visualizing Ideas in Photography 3

Art 452 Contemporary Issues in Photography 3

Part II. Required Intermediate Courses: 3-6 cr

Select one or both courses below:

Art 357 Studio Lighting and Digital Imaging 3

Art 358 Medium and Large Format Photography 3

Part III. Required Advanced Courses: 6-9 cr

Select two or three courses from courses below*:3

Art 451 Special Topics in Photography: (subtitle) 3

Art 454 Narrative Photography 3

Art 456 Advanced Digital Imaging in Photography 3

Art 458 Photographic Materials and Processes 3

***Total 12 credits in Parts II and III combined.**

3. Photography Capstone Courses: 6 cr

Art 552 Studio Practice and Research in Photography 3

Art 553 Senior Project in Photography 3

Art BFA – Sample Curriculum in Photography and Imaging

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101 Drawing I 3

Art 106	Art Survey	3
Art 108	2D Concepts	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15
Freshman Year (Spring) First Year Program		
Art 118	Digital Arts: Culture, Theory, Practice	3
Art 109	3D Concepts	3
Art 253	Introduction to Photography	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15
Total	Freshman Year	30
Sophomore Year (Fall)		
<i>Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).Â Portfolio Review for students in Photography and Imaging is held in both the fall and spring semesters. Students must complete Art 253 and Art 350 to be eligible.Â Portfolio review guidelines are available from the area.</i>		
Art 350	Visualizing Ideas in Photography	3
Art 358	Medium and Large Format Photography	3
or		
Art	200-level Studio	
Art	200-level Studio (Art 212Â or 221 or 291)	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
	University Core ¹	3
Subtotal		18
Sophomore Year (Spring)		
Art 357	Studio Lighting and Digital Photography	3
or		
Art	200-level Studio	
Art 452	Contemporary Issues in Photography	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	University Core ¹	3
Subtotal		18
Total	Sophomore Year	36
Junior Year (Fall)		
	Two of the following three courses:	6
Art 358	Medium and Large Format Photography	
and/or		
Art 454	Narrative Photography	
and/or		
Art 456	Advanced Digital Imaging in Photography	
Art	Art & Design Elective	3
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3

Subtotal		18
Junior Year (Spring)		
<i>Students are reminded that enrollment into Art 552 requires acceptance into the Photography and Imaging program, completion of the 18-credit PI core requirements with a cumulative GPA of 2.67, and a B- or better in both Art 350 and Art 452.</i>		
Two of the following three courses:		
Art 357	Studio Lighting and Digital Photography	6
and/or		
Art 451	Special Topics in Photography: (subtitle)	
and/or		
Art 458	Photographic Materials and Processes	
Art 509	Art & Design Seminar: (subtitle)	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	33
Senior Year (Fall)		
<i>Students are reminded that enrollment into Art 553 requires the completion of Art 552 with a B- or better.</i>		
Art 604	Professional Practices	3
Art 552	Studio Practice and Research in Photography	3
Art	Art & Design Elective	
Art	Art & Design Elective	3
	University Core ¹	3
Subtotal		15
Senior Year (Spring)		
Art 605	BFA Exhibition	1
Art 553	Senior Project in Photography (Capstone)	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
	University Core ¹	3
Subtotal		16
Total	Senior Year	34

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

PRINT AND NARRATIVE FORMS

1. Print and Narrative Forms Introductory Course: 3 cr

Art 291	Introduction to Print and Narrative Forms	3
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2. Print and Narrative Forms Core Courses: 18 cr

Select any six courses from the following list:

Art 337	Screenprinting on Fabric	3
Art 350	Visualizing Ideas in Photography	3

Art 391	Intermediate Printmaking: (subtitle)	
Art 392	Lithography	3
Art 393	Digital Printmaking	3
Art 394	Intaglio	3
Art 397	Book Arts Workshop: (subtitle)	3
Art 398	Photo Printmaking	3
Art 433	Digital Imaging for Fabric	3
Art 495	Advanced Printmaking: (subtitle)	3
Art 496	Sequence and Structure	3
Art 591	Portfolio in Print and Narrative Forms	3
3. Print and Narrative Forms Capstone Course: 3 cr		
Art 597	Senior Project in Print and Narrative Forms	3

Art BFA – Sample Curriculum in Print and Narrative Forms

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 108	2D Concepts	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Freshman Year (Spring) First Year Program

Art 118	Digital Arts: Culture, Theory, Practice	3
Art 109	3D Concepts	3
Art 291	Introduction to Print and Narrative Forms	3
or		
Art	200-level studio in Art (recommend Art 253)	
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Total Freshman Year 30

Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Art 291	Introduction to Print and Narrative Forms	3
or		
Art	200-level studio in Art (Art 253 recommended)	
Art	200-level studio (Art 231 or 262 or 271 or 281)	3
Art	200-level studio in Art	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
	University Core ¹	3
Subtotal		18

Sophomore Year (Spring)

Art 391	Intermediate Printmaking: (subtitle)	3
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or		
Art 398	Photo Printmaking	
Art	Art & Design Elective (Art 350 recommended)	3
Art	Art & Design Elective	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	University Core ¹	3
Subtotal		15
Total	Sophomore Year	33
Junior Year (Fall)		
Art 394	Intaglio	3
or		
Art 395	Advanced Printmaking: Intaglio	
Art 393	Digital Printmaking	3
or		
Art 496	Sequence and Structure	
Art	Art & Design Elective	3
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		18
Junior Year (Spring)		
Art 392	Lithography	3
or		
Art 493	Advanced Digital Printmaking	
Art 395	Advanced Printmaking: Lithography	3
Art 509	Art & Design Seminar: (subtitle)	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	33
Senior Year (Fall)		
Art 604	Professional Practices	3
Art 591	Portfolio in Print and Narrative Forms	3
or		
Art 396	Photo Screenprinting	
Art	Art & Design Elective	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
Subtotal		18
Senior Year (Spring)		
Art 605	BFA Exhibition	1
Art 597	Senior Project in Print and Narrative Forms	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
	University Core ¹	3
Subtotal		16
Total	Senior Year	34

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

SCULPTURE

1. Sculpture Introductory Course: 3 cr

Art 261	Introduction to Sculpture	3
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2. Sculpture Required Core Courses: 18 cr

Part I. Select 6-12 credits from the following list (retakable with change of topic):

Art 269	Sculpture Workshop: (subtitle)	1-3
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Art 368	Sculpture Practices: (subtitle)	3
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Art 369	Sculpture Workshop: (subtitle)	1-3
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Part II. Select 6-12 credits from the following list (retakable with change of topic):

Art 468	Advanced Sculptural Practices: (subtitle)	3
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Art 469	Sculpture Workshop (subtitle)	1-3
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3. Sculpture Capstone Course: 3 cr

Art 567	Senior Project in Sculpture	3
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Art BFA – Sample Curriculum in Sculpture

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
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Art 106	Art Survey	3
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Art 109	3D Concepts	3
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	University Core ¹	3
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	University Core ¹	3
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Subtotal		15
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Freshman Year (Spring) First Year Program

Art 108	2D Concepts	
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Art 118	Digital Arts: Culture, Theory, Practice	3
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Art 261	Introduction to Sculpture	3
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or

Art	200-level studio in Art	
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	University Core ¹	3
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	University Core ¹	3
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Subtotal		15
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Total	Freshman Year	30
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Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Art 261	Introduction to Sculpture	3
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or

Art	200-level studio in Art	
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Art	200-level studio in Art	3
Art	200-level studio in Art	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
	University Core ¹	3
Subtotal		18
Sophomore Year (Spring)		
Art 368	Sculptural Practices: (subtitle)	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	University Core ¹	3
Subtotal		15
Total	Sophomore Year	33
Junior Year (Fall)		
Art 368	Sculptural Practices: (subtitle)	3
Art 369	Sculpture Workshop: (subtitle)	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		18
Junior Year (Spring)		
Art 468	Sculptural Practices: (subtitle)	3
Art 469	Sculpture Workshop: (subtitle)	3
Art 509	Art & Design Seminar: (subtitle)	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	33
Senior Year (Fall)		
Art 604	Professional Practices	3
Art 468	Sculptural Practices: (subtitle)	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
Subtotal		18
Senior Year (Spring)		
Art 605	BFA Exhibition	1
Art 567	Senior Project in Sculpture	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
	University Core ¹	3
Subtotal		16
Total	Senior Year	34

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts distribution requirement is part of the 45-credit core: 9 credits outside of Art & Design, in three of the four other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

BACHELOR OF FINE ARTS (STUDIO ART) IN DESIGN AND VISUAL COMMUNICATION (130-Credit BFA Degree)

Students in Design and Visual Communication are required to have a laptop computer for their coursework by the first week of class, beginning with Art 221 (Introduction to Design) and for all subsequent courses in Design and Visual Communication. Visit uwm.edu/arts/apply/laptop/ for more information.

To be admitted into Design and Visual Communication, students must pass Design and Visual Communication Portfolio Review. To be eligible for acceptance into DVC, students must complete Art 124 (Design Survey), Art 221 (Introduction to Design), and Art 223 (Introduction to Typography) with a B- or better, and admission to Art & Design.

After admission into Design and Visual Communication, students must:

1. Complete Art 321 (DVC I) and Art 323 (Typography II) with a grade of B- or better to enroll in Art 421 and Art 423.
2. Complete Art 421 (DVC II) and Art 422 (Design Methodologies) with a grade of B- or better to enroll in Art 529.
3. Complete Art 529 (DVC III) as Senior Capstone Experience concurrently with Art 606 (BFA Exhibition in Design).
4. Complete Art 324 (Web Design) and *either* Art 325 (Web Design II) *or* Art 424 (Topics in Web, Interaction, and Screen Design). These required courses are not part of the core sequence, and may be taken any time after prerequisites are met.
5. Complete two of the six following courses (6 credits): Art 423 (Experimental Typography), Art 426 (Motion Graphics), Art 524 (Professional Practice), Art 526 (Research in Universal Design and Fabrication), Art 528 (Print Production and Presentation Techniques), or either Art 325 or Art 424 not taken in point 4.
6. Complete 9 credits of Design and Visual Communication Expanded Studies (ES) all outside the Peck School of the Arts. See your advisor in the Peck School of the Arts Student Services Office for an updated list of recommended courses.

Students may petition to substitute for some or all of the DVC Expanded Studies courses. Likely candidates would be students with a high GPA who have tested out of freshman English; double majors; and students with a keen and credible interest in another area of study. Petitions to substitute for courses will be evaluated on a case-by-case basis by Design faculty and will be subject to an appeals process.

1. DVC Introductory Course: 3 cr

Art 221	Introduction to Design	3
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2. DVC Additional Introductory Courses: 6 cr

Art 124	Design Survey	3
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Art 223	Introduction to Typography	3
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3. DVC Core Courses: 24 cr

Part I. Required Core Sequence: 12 cr

Art 321	Design and Visual Communication I	3
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Art 323	Typography II	3
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Art 421	Design and Visual Communication II	3
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Art 422	Design Methodologies	3
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Part II. Required Interaction Design Courses: 6 cr

Art 324	Web Design	3
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Art 325	Web Design II	3
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or

Art 424	Topics in Web, Interaction, and Screen Design: (subtitle)	3
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Part III. Required Core Choices: 6 cr

Select any two courses from the following list:

Art 325*	Web Design II	3
or		
Art 424*	Topics in Web, Interaction, and Screen Design: (subtitle)	
Art 423	Experimental Typography	3
Art 426	Motion Graphics	3
Art 427	Advanced Design Workshop: (subtitle)	3
Art 524	Professional Practice in Design	3
Art 526	Research in Universal Design and Fabrication: (subtitle)	3
Art 528	Print Production and Presentation Techniques	3

* *Whichever course is not taken in Part II.*

4. DVC Capstone Courses: 4 cr

Art 529	Design and Visual Communication III (Senior Capstone)	3
Art 606	BFA Exhibition in Design	1

Art BFA in Design and Visual Communication – Recommended Curriculum

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 108	2D Concepts	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Freshman Year (Spring) First Year Program

Art 109	3D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
Art	200-level studio in Art	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Total Freshman Year 30

Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year). Portfolio review for students in Design and Visual Communication is held in spring semester only. Students must complete Art 124, 221, and 223 to be eligible. Portfolio review guidelines are available from the area.

Art 221	Introduction to Design	3
Art 124	Design Survey	3
Art	Art & Design Elective	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
	University Core ¹	3
Subtotal		15

Sophomore Year (Spring)

Art 223	Introduction to Typography (Counts as 2D 200 level.)	3
Art	Art & Design Elective	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
Art 324	Web Design	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	University Core ¹	3
Subtotal		18
Total	Sophomore Year	33
Junior Year (Fall)		
Art 321	Design and Visual Communication I	3
Art 325	Web Design II	3
or		
Art 424	Topics in Web, Interaction, and Screen Design: (subtitle)	
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		15
Junior Year (Spring)		
Art 323	Typography II	3
Art	DVC Required Core Choice	3
Art 509	Art & Design Seminar: (subtitle)	3
Art	Art & Design Elective	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		18
Total	Junior Year	33
Senior Year (Fall)		
Art 421	Design and Visual Communication II	3
Art 422	Design Methodologies	3
Art	DVC Required Core Choice	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
Subtotal		18
Senior Year (Spring)		
Art 529	Design and Visual Communication III (Capstone)	3
Art	Art & Design Elective	3
Art	Art & Design Elective	3
	University Core ¹	3
	University Core ¹	3
Art 606	BFA Exhibition in Design	1
Subtotal		16
Total	Senior Year	34

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

BACHELOR OF FINE ARTS (ART EDUCATION)

This undergraduate degree prepares students to teach art both in schools and in the community. Once students are admitted to the Art & Design program, they can apply to the Art Education program through Art Ed 227, Introduction to Art Education (see application procedures). In addition to satisfying the core curriculum, art education students also must take required art history and critical thinking courses, and three education courses. They are required to take studio courses from both 2D and 3D disciplines, and to focus their choices of studio electives to develop an emphasis in an area. In addition to top-notch studio preparation in a wide range of media, our students focus on urban issues and art education for social justice. Theory is integrated into practical early field and student teaching experiences. Throughout the program, assessment is aligned with the requirements for licensure under “PI-34,” the state law governing certification in Wisconsin. Students who demonstrate mastery of the knowledge, skills, and dispositions of professional educators during student teaching are recommended to the Department of Public Instruction in the State of Wisconsin for a PK4-12 teaching license.

Bachelor of Fine Arts (Art Education). The Art Education program requires a total of 130 credits for graduation distributed as follows:

University Core Curriculum (includes 12 cr Art History, 9 cr Education, and 6 cr PSOA Arts Distribution*)	45
First Year Program	15
Required Studio Courses**	39
Critical Thinking Requirement	3
Art Education Courses	28
Total	130

* 12 cr Art History are included in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER. 9 cr School of Education courses are included in the Core Curriculum (see academic advisor). PSOA Arts Distribution for Art Education is 6 credits that the student must take within PSOA, outside of Art & Design, in 2 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

** Art Education students are required to take the following Art Studio courses as part of these 39 credits: Art 201 Drawing II, Art 342 Introduction to Figure Drawing, 18 cr of 200-level courses reflecting 2D, 3D studio and digital studio experiences, and 12 cr of upper-level studios to create further concentration in a studio area of choice. See academic advisor for 2D, 3D, and digital course designations at the 200 level, and for upper-level studios.

Art Education BFA – Sample Curriculum in Art Education

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 109	3D Concepts	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Freshman Year (Spring) First Year Program

Art 202	Drawing II	3
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Art 108	2D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
Art	200-level studio in Art	3
or		
	University Core ¹	
	University Core ¹	3
Subtotal		15
Total	Freshman Year	30

Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year). Admission to the Pre-Art Ed Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

Art	200-level studio in Art	3
or		
Art Ed 227	Intro to Art Ed	
Art	200-level studio in Art	3
Art	200-level studio in Art	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
	University Core ¹	3
	University Core ¹	3
Subtotal		18

Sophomore Year (Spring)

Art Ed 227	Introduction to Art Education	3
or		
Art Ed 228	Learning Processes in Art Education	
or		
Art	200-level studio in Art	
Art	200-level studio in Art	3
Art	200-level studio in Art	3
Art	200-level studio in Art	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	University Core ¹	3
Subtotal		18
Total	Sophomore Year	36

Junior Year (Fall)

Art Ed 327	Art Education Theory and Practice: Elementary	6
Art Ed 228	Learning Processes in Art Education	3
or		
Art	200-level studio in Art	
Art 342	Intro to Figure Drawing	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3
Subtotal		18

Junior Year (Spring)

Art Ed 328	Art Education Theory and Practice: Secondary	6
Art	Upper Studio Elective	3
Art 309	Issues in Contemporary Art: (subtitle)	3
ArtHist	Advanced Art History choice ²	3
	University Core ¹	3

Subtotal		18
Total	Junior Year	36
Senior Year (Fall or Spring)		
Art	Studio Elective	3
	University Core ¹	3
	University Core ¹	3
Subtotal		18
Senior Year (Fall or Spring)		
Art Ed 425	Student Teaching: Elementary	5
Art Ed 426	Student Teaching: Secondary	5
Subtotal		10
Total	Senior Year	28

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement for Art Education is part of the 45-credit Core: 6 credits outside of Art & Design, in 2 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

BACHELOR OF ARTS (ART)

This undergraduate degree offers students a concentrated studio art experience to complement a broad exposure to the humanities, fine arts, social sciences, and natural sciences. Bachelor of Arts (Art) students have four course tracks to choose from: Studio Arts, Design Studies, Community Arts, and Digital Fabrication and Design.

The courses required and recommended for each of the four tracks (Studio Arts, Design Studies, Community Arts, and Digital Fabrication and Design) are listed below. The “Recommended 4-Year Sequence” for each of the four tracks suggests course sequencing across all four years so students can meet the degree requirements. Students are required to complete 18 studio credits after the First Year Program, but may take more studio courses as part of their Directed Electives if they desire. Students in the Community Arts track are required to complete the 15-credit Cultures and Communities certificate program. Those credits can be counted as part of the University Core or as BA Directed Electives as desired in consultation with advising. Students in the Digital Fabrication and Design program must take Art 277 as their First Year 200-level class.

The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

University Core Curriculum (includes 12 cr Art History and 9 cr PSOA Arts Distribution)	45
First Year Program	15
Art & Design Courses	18
Directed Electives	32
Critical Thinking	6
Professional Practices	3
BA Project	1
Total	120

Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

BACHELOR OF ARTS (ART) TRACKS:

BA STUDIO ARTS

Introductory Studios (any two courses from the following list): 6 cr

Art 212	Introduction to Digital Studio Practice
Art 231	Introduction to Fibers
Art 243	Introduction to Painting
Art 253	Introduction to Photography
Art 261	Introduction to Sculpture
Art 271	Introduction to Jewelry and Metalsmithing
Art 277	Introduction to Digital Fabrication
Art 281	Introduction to Ceramics
Art 291	Introduction to Print and Narrative Forms: (subtitle)

Studio Concentration (300-level and above): 12 cr

Students should select studio courses that best fit their curricular goals (academic double-major, minor, etc.) in conjunction with Art & Design undergraduate advisor, followed by faculty in the areas of interest.

Directed Electives (Art & Design and academic electives): 32 cr

Directed Electives are intended to build upon and augment each student's curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives.

BA DESIGN STUDIES

Introductory Studios: 6 cr

Art 221	Introduction to Design
Art 223	Introduction to Typography

Studio Concentration (300-level and above): 12 cr

Select any four courses from the following list:

Art 322	Illustration
Art 324	Web Design
Art 325	Web Design II
Art 424	Topics in Web, Interaction, and Screen Design: (subtitle)
Art 427	Advanced Design Workshop: (subtitle)
Art 524	Professional Practice in Design
Art 526	Research in Universal Design: (subtitle)
Art 528	Print Production and Presentation Techniques
Art 608	Art & Design Internship

Directed Electives (Art & Design and academic electives): 32 cr

Directed Electives are intended to build upon and augment each student's curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives. The Art & Design Undergraduate Advisor has lists of suggested studio and academic courses to help students develop a cohesive curriculum in design.

BA COMMUNITY ARTS

Introductory Studios: 6 cr

Select any two courses from the following list:

- Art 212 Introduction to Digital Studio Practice
- Art 221 Introduction to Design
- Art 231 Introduction to Fibers
- Art 243 Introduction to Painting
- Art 253 Introduction to Photography
- Art 261 Introduction to Sculpture
- Art 271 Introduction to Jewelry and Metalsmithing
- Art 277 Introduction to Digital Fabrication
- Art 281 Introduction to Ceramics
- Art 291 Introduction to Print and Narrative Forms: (subtitle)
- Art Ed 227 Introduction to Art Education

Studio Concentration (300-level and above): 12 cr

- Art 306 Introduction to Community Arts
- Art 406 Community Art II

Remaining six credits: Students should select courses at the 300 level and above that best fit their curricular goals (academic double-major, minor, etc.) in conjunction with advising.

Directed Electives (Art & Design and academic electives): 32 cr

Directed Electives are intended to build upon and augment each student's curricular goals (academic double-major, minor, etc.). Students in Community Arts track must complete the courses for the Cultures and Communities certificate (15 credits) as part of the Directed Electives or University Core. 150 Multicultural America (any discipline) is a prerequisite to Art 306 Introduction to Community Arts, and can be taken as a Directed Elective or as a University Core class in the fall semester of the sophomore year. Remaining credits: Students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives.

BA DIGITAL FABRICATION AND DESIGN

Introductory Studios: 6 cr

- Art 277 Design for Digital Fabrication
- Art 278 Introduction to Industrial Craft

Studio Concentration (300-level and above): 12 cr

- Art 378 Industrial Processes and Fabrication
- Art 478 3D Digital Fabrication and Craft
- Art 578 Research in Digital Fabrication and Craft: (subtitle)
- Art 526 Research in Universal Design and Fabrication: (subtitle)

Directed Electives (Art & Design and academic electives): 32 cr

Directed Electives are intended to build upon and augment each student's curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives.

Art and Design Bachelor of Arts (Art)

Recommended Four-Year Sequence in Studio Arts

Freshman Year (Fall) First Year Program*(Includes OWC-A and QL-A Requirements)**Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.*

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 108	2D Concepts	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Freshman Year (Spring) First Year Program

Art 109	3D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
	Directed Elective ³	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Total Freshman Year 30**Sophomore Year (Fall)***Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).*

Art	200-level studio in Art	3
Art	200-level studio in Art	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
Art 309	Issues in Contemporary Art: Art & Design Lecture Series	3

or

	Directed Elective ³	
	University Core ²	3

Subtotal 15

Sophomore Year (Spring)

Art	300-level Studio Concentration	3
ArtHist102	Renaissance to Modern Art and Architecture ²	3
Art 309	Issues in Contemporary Art: Art & Design Lecture Series	3

or

	Directed Elective ³	
	Directed Elective ³	3
	University Core ¹	3

Subtotal 15

Total Sophomore Year 30**Junior Year (Fall)**

Art	300-level and above Studio Concentration	3
ArtHist	Advanced Art History choice ²	3
	Directed Elective ³	3
	Directed Elective ³	3
	University Core ¹	3

Subtotal 15

Junior Year (Spring)

Art	300-level and above Studio Concentration	3
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Art 509	Art & Design Seminar: (subtitle)	3
ArtHist	Advanced Art History choice ²	3
	Directed Elective ³	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	30
Senior Year (Fall)		
Art	300-level and above Studio Concentration	3
	Directed Elective ³	3
	Directed Elective ³	3
	Directed Elective ³	3
	University Core ¹	3
Subtotal		15
Senior Year (Spring)		
Art 505	BA Project	1
Art 604	Professional Practices	3
	Directed Elective ³	2
	Directed Elective ³	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15
Total	Senior Year	30

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

³ The 32 credits Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate advisor, followed by faculty in the areas of interest.

Art and Design Bachelor of Arts (Art)

Recommended Four-Year Sequence in Design Studies

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 108	2D Concepts	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Freshman Year (Spring) First Year Program

Art 109	3D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
	Directed Elective ³	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15
Total	Freshman Year	30

Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Art 124	Design Survey ³	3
Art 221	Introduction to Design	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
Art 309	Issues in Contemporary Art: Art & Design Lecture Series	3
or		
	Directed Elective ³	
	University Core ¹	3
Subtotal		15

Sophomore Year (Spring)

Art 223	Introduction to Typography	3
ArtHist102	Renaissance to Modern Art and Architecture ²	3
Art	300-level and above Studio Concentration ⁴	3
Art 309	Issues in Contemporary Art: Art & Design Lecture Series	3
or		
	Directed Elective ³	
	University Core ¹	3
Subtotal		15
Total	Sophomore Year	30

Junior Year (Fall)

Art	300-level and above Studio Concentration	3
ArtHist	Advanced Art History choice ²	3
	Directed Elective ³	3
	Directed Elective ³	3
	University Core ¹	3
Subtotal		15

Junior Year (Spring)

Art	300-level and above Studio Concentration	3
Art 509	Art & Design Seminar: (subtitle)	3
ArtHist	Advanced Art History choice ²	3
	Directed Elective ³	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	30

Senior Year (Fall)

Art	300-level and above Studio Concentration	3
	Directed Elective ³	3
	Directed Elective ³	3
	Directed Elective ³	3

	University Core ¹	3
Subtotal		15
Senior Year (Spring)		
Art 505	BA Project	1
Art 604	Professional Practices	3
	Directed Elective ³	2
	Directed Elective ³	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15
Total	Senior Year	30

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

³ The 32 credits Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate advisor, followed by faculty in the areas of interest. Art 124 Design Survey is highly recommended.

⁴ The 12 credits of 300-above Studio Concentration for Design Studies must be chosen from the approved list. Take note of prerequisites for advanced courses.

Art and Design Bachelor of Arts (Art)

Recommended Four-Year Sequence in Community Arts

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 108	2D Concepts	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15
Freshman Year (Spring) First Year Program		
Art 109	3D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
	Directed Elective ³	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15
Total	Freshman Year	30

Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Art	200-level studio in Art	3
Art	200-level studio in Art	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
150	Multicultural America (any discipline) ³	3
	University Core ¹	3
Subtotal		15

Sophomore Year (Spring)

Art 306	Introduction to Community Arts	3
ArtHist 102	Renaissance to Modern Art and Architecture ²	3
	Directed Elective ³	3
Art 309	Issues in Contemporary Art: Art & Design Lecture Series	3
	University Core ¹	3
Subtotal		15

Total Sophomore Year 30

Junior Year (Fall)

Art	300-level and above Studio Concentration	3
ArtHist	Advanced Art History choice ²	3
	Directed Elective ³	3
	Directed Elective ³	3
	University Core ¹	3
Subtotal		15

Junior Year (Spring)

Art	300-level and above Studio Concentration	3
ArtHist	Advanced Art History choice ²	3
Art 406	Community Arts II	3
	Directed Elective ³	3
	University Core ¹	3
Subtotal		15

Total Junior Year 30

Senior Year (Fall)

Art	300-level and above Studio Concentration	3
	Directed Elective ³	3
	Directed Elective ³	3
	Directed Elective ³	3
	University Core ¹	3
Subtotal		15

Senior Year (Spring)

Art 505	BA Project	1
Art 604	Professional Practices	3
	Directed Elective ³	2
	Directed Elective ³	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Total Senior Year 30

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

³ The 32 credits Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate advisor, followed by faculty in the areas of interest. Courses required to satisfy the Cultures and Communities Certificate can be part of the Directed Electives or University Core. 150 Multicultural America is a prerequisite for Art 306 Introduction to Community Art, and is recommended as a Directed Elective.

Art & Design Bachelor of Arts (Art)

Recommended Four-Year Sequence in Digital Fabrication & Design

Freshman Year (Fall) First Year Program

(Includes OWC-A and QL-A Requirements)

Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

Art 101	Drawing I	3
Art 108	2D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Freshman Year (Spring) First Year Program

Art 109	3D Concepts	3
Art 106	Art Survey	3
Art 277*	Design for Digital Fabrication	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15

Total Freshman Year 30

* Art 277 requires that students take Art 118 in the fall semester.

Sophomore Year (Fall)

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Art 278	Introduction to Industrial Craft	3
ArtHist 101	Ancient and Medieval Art and Architecture ²	3
Art 309	Issues in Contemporary Art: Art & Design Lecture Series	3
or		
	Directed Elective ³	
	Directed Elective ³	3
	University Core ¹	3
Subtotal		15

Sophomore Year (Spring)

Art 378	Industrial Processes and Fabrication	3
ArtHist102	Renaissance to Modern Art and Architecture ²	3
Art	Directed Elective ³	3
Art 309	Issues in Contemporary Art: Art & Design Lecture Series	3
or		
	Directed Elective ³	
	University Core ¹	3
Subtotal		15
Total	Sophomore Year	30
Junior Year (Fall)		
Art 478	Digital Fabrication and Craft	3
ArtHist	Advanced Art History choice ²	3
	Directed Elective ³	3
	Directed Elective ³	3
	University Core ¹	3
Subtotal		15
Total	Junior Year	30
Senior Year (Fall)		
Art 526	Research in Universal Design and Fabrication: (subtitle)	3
	Directed Elective ³	3
	Directed Elective ³	3
	University Core ¹	3
	University Core ¹	3
Subtotal		15
Senior Year (Spring)		
Art 505	BA Project	1
Art 604	Professional Practices	3
	Directed Elective ³	2
	Directed Elective ³	3
	Directed Elective ³	3
	University Core ¹	3
Subtotal		15
Total	Senior Year	30

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

³ The 32 credits Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate advisor, followed by faculty in the areas of interest.

⁴ The 12 credits of 300-above Studio Concentration for Design Studies must be chosen from the approved list. Take note of prerequisites for advanced courses.

MINOR IN ART & DESIGN

A minor in Art & Design consists of a minimum of 18 art credits. Nine of the final 12 credits must be taken in residence at UWM. Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor, the Photography Minor, and the Community Arts Minor. Art & Design minor students must maintain an overall GPA of 2.5.

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

Art & Design Minor: Studio (18 credits)

Required: 6 credits

Part I. (3 cr):

Art 101 Drawing I 3

Part II. (3 cr):

Choose any course from the following list:

Art 106 Art Survey 3

Art 100 American Art and Culture 3

Art 124 Design Survey 3

Art 105 Visiting Artist Lecture Series 3

Select Track: 3 credits

2D Track:

Art 108 2D Concepts 3

3D Track:

Art 109 3D Concepts 3

Digital Track:

Art 118 Digital Arts: Culture, Theory, Practice 3

Select 200-level Intro Course(s): 3-6 credits

2D Track:

Art 243 Introduction to Painting 3

Art 253 Introduction to Photography 3

Art 291 Introduction to Print and Narrative Forms 3

3D Track:

Art 231 Introduction to Fibers 3

Art 261 Introduction to Sculpture 3

Art 271 Introduction to Jewelry and Metalsmithing 3

Art 278 Introduction to Industrial Craft 3

Art 281 Introduction to Ceramics 3

Digital Track:

Art 212 Introduction to Digital Studio Practice 3

Art 221 Introduction to Design 3

Art 277 Design for Digital Fabrication 3

200-level courses are grouped according to track, but students are free to take what interests them as long as they meet the prerequisites.

Select 300-level and above: 3-6 credits

Students in all three Studio tracks select 3-6 credits of 300-level and above Art courses in consultation with the Art & Design Undergraduate Advisor and the Concentration Area Head (Ceramics, Digital Studio Practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography, Print and Narrative Forms, Sculpture).

Art & Design Minor: Design (18 credits)**Required: 9 credits**

Art 108	2D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
Art 124	Design Survey	3

or

Art 106	Art Survey	3
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Required 200-level Intro Course: 6 credits

Art 221	Introduction to Design	3
Art 223	Introduction to Typography	3

Select 300-level and above: 3 credits

Select 3 credits of 300-level or above electives in Design and Visual Communication in consultation with Art & Design Undergraduate Advisor and Area Head for Design and Visual Communication. Design minor students are not eligible to take Design and Visual Communication Required Core Courses.

Art & Design Minor: Photography (18 credits)**Required: 6 credits**

Art 100	American Art and Culture	3
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or

Art 106	Art Survey	
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or

Art 124	Design Survey	
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or

Art 150	Multicultural America	
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or

Art 152	Photography Survey	
Art 108	2D Concepts	3

or

Art 118	Digital Arts: Culture, Theory, Practice	
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Required 200-level Intro Courses: 3 credits

Art 253	Introduction to Photography	3
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Select 300-level and above: 9 credits

Select 9 credits of 300-level or above electives in Photography and Imaging from the following list, in consultation with Art & Design Undergraduate Advisor and Area Head for Photography and Imaging. Students must be aware of the prerequisites for the 300+ level courses they wish to take.

Art 350	Visualizing Ideas in Photography	3
Art 357	Studio Lighting and Digital Imaging	3
Art 358	Medium and Large Format Photography	3
Art 451	Special Topics in Photography: (subtitle)	3
Art 452	Contemporary Issues in Photography	3

Art 454	Narrative Photography	3
Art 456	Advanced Digital Imaging in Photography	3
Art 458	Photographic Materials and Processes	3

Art & Design Minor: Community Arts (18 credits)

Required: 6 credits

Art 101	Drawing I	3
Art 150	Multicultural America*	3

Select Track: 3 credits

2D Track:

Art 108	2D Concepts	3
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3D Track:

Art 109	3D Concepts	3
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Digital Track:

Art 118	Digital Arts: Culture, Theory, Practice	3
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Select 200-level Intro Course(s): 3 credits

2D Track:

Art 243	Introduction to Painting	3
Art 253	Introduction to Photography	3
Art 291	Introduction to Print and Narrative Forms	3

3D Track:

Art 231	Introduction to Fibers	3
Art 261	Introduction to Sculpture	3
Art 271	Introduction to Jewelry and Metalsmithing	3
Art 278	Introduction to Industrial Craft	3
Art 281	Introduction to Ceramics	3

Digital Track:

Art 212	Introduction to Digital Studio Practice	3
Art 221	Introduction to Design	3
Art 277	Design for Digital Fabrication	3

200-level courses are grouped according to track, but students are free to take what interests them as long as they meet the prerequisites.

Select 300-level and above: 6 credits

Art 306	Introduction to Community Arts	3
Art 309	Issues in Contemporary Art	3

* Note: If Community Arts minors have previously taken 150 Multicultural America in another department, they may substitute another Art & Design course for which they have the prerequisites.

CERTIFICATE IN COMMUNITY ARTS

Coordinators: Raoul Deal, Senior Lecturer in the Department of Art and Design, and the Undergraduate Advisor for the Department of Art and Design

The Certificate in Community Arts is open to all students seeking a Bachelor's degree from UWM, to students who previously received a Bachelor's degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students), but who have a strong interest in this subject area. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

The certificate is designed to give students an opportunity to explore art in community settings. It is geared towards those interested in social engagement, environmental issues, community building, public art, and place making. Most certificate courses highlight art practices that integrate collaborative processes and social cooperation. Certificate students will also benefit from a minimum of three service-learning experiences. They will be prepared to work as artists in grassroots organizations, community institutions, non-profit arts organizations, and educational institutions.

Students enrolling in the Community Arts Certificate Program are required to earn a minimum of 18 credits. The required credits are organized to be taken sequentially, and range from a 200-level course to 400-level courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.5 or above in all courses counting toward the certificate.

Interested students should contact the program coordinator as soon as they decide to pursue the Community Arts Certificate. The coordinator's function is to help the student design a program of study from among the available courses and to guide the student in completing that program in sequence.

To earn the Community Arts Certificate (18 credits) the following requirements must be met:

Complete the 18 Core Course credits in the Community Arts track with a minimum grade point average of 2.5.

Core Courses: 18 cr.

Art 101 Drawing I 3

or

Art 108 2D Concepts

or

Art 109 3D Concepts

or

Art 118 Digital Arts: Culture, Theory, Practice

or

ArtEd 130 Multicultural Art and Visual Learning in Elementary Education

xxx 150 Multicultural America (Art 150 recommended) 3

Art 306 Introduction to Community Art 3

Art 309 Issues in Contemporary Art: Visiting Artist Lecture Series 3

Art 406 Community Art II 3

Art 309 Issues in Contemporary Art: (subtitle)* 3

or

Art 509 Art & Design Seminar: (subtitle)*

** Art & Design majors who complete the Certificate in Community Arts must take 9 credits Critical Thinking: Art 309 Issues in Contemporary Art: Visiting Artist Lecture Series, Art 509 Art & Design Seminar: (subtitle) and 3 additional credits in either 309 or 509. This is because the 3 credits of Art 509 required as part of the BA and BFA degrees does not count towards the Certificate.*

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment

of the program requirements, subject to approval by the Certificate Program Committee.

CERTIFICATE IN DIGITAL FABRICATION AND DESIGN

Coordinator: Frankie Flood

Undergraduate Advisor, Department of Art and Design: Allison B. Cooke

The Certificate in Digital Fabrication and Design is open to all students seeking a bachelor's degree from UWM, to students who previously received a Bachelor's degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students), but who have a strong interest in this subject area. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

This certificate is designed to give students an understanding of the software environments, materials, and equipment used in 2D and 3D digital fabrication excluding architectural scale. The certificate is for students in any major at the University of Wisconsin-Milwaukee, but specifically for Art & Design students who wish to complement their major with an additional concentration in Digital Fabrication.

Students enrolling in the Digital Fabrication and Design Certificate Program are required to earn a minimum of 18 credits. The required credits are organized to be taken sequentially, and range from a 200-level course to 500-level courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.5 or above in all courses counting toward the certificate.

Interested students should contact the program coordinator as soon as they decide to pursue the Digital Fabrication and Design Certificate. The coordinator's function is to help the student design a program of study from among the available courses and to guide the student in completing that program.

To earn the Digital Fabrication and Design Certificate (18 credits) the following requirements must be met:

Complete the 18 Core Course credits in the Digital Fabrication and Design track with a minimum grade point average of 2.5.

Core Courses: 18 cr

Art 277	Design for Digital Fabrication	3
Art 278	Introduction to Industrial Craft	3
Art 378	Industrial Processes and Fabrication	3
Art 478	Digital Fabrication and Craft	3
Art 526	Research in Universal Design and Fabrication: (subtitle)	3
Art 578	Research in Digital Fabrication and Craft: (subtitle)	3

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to approval by the Certificate Program Committee.

PROGRAM-TO-PROGRAM ARTICULATION AGREEMENTS

The Department of Art & Design has Program-to-Program Articulation Agreements with several regional and international institutions, including the following agreements with the Milwaukee Area Technical College's (MATC) Graphic Design Associate Degree Program, Waukesha County Technical College's (WCTC) Graphic Design Associate Degree Program, and with the Hubei University of Technology in Wuhan, China.

MATC GRAPHIC DESIGN ASSOCIATE DEGREE AND UWM BACHELOR OF ARTS (ART) IN DESIGN STUDIES DEGREE PROGRAM

MATC students who have successfully completed the Graphic Design AAS degree will be granted junior status in the UWM PSOA A&D BA in Design Studies program.

Laptops are required for the BA in Design Studies program.

Students need a 2.50 GPA from MATC and need to complete the OWC-A and QL-A requirements for UWM while at MATC. It's advisable that students also complete the Social Sciences, Natural Sciences, and Cultural Diversity GER requirements as part of their MATC Graphic Design Associate Degree. Students should select from approved GER courses (SS, NS, NS+, CD/&). Students need to complete the UWM Foreign Language proficiency: two years of the same Foreign Language in High School, or two semesters of Foreign Language at MATC or UWM.

MATC students will enter the Department of Art & Design with up to 72 credits, and will take 58 credits minimum to complete the BA in Design Studies.

Program-to-Program transfer courses/credits are accepted only for the program/degree specified in this agreement. A change of major/degree/program invalidates these courses/credits for transfer unless they are approved within another Program-to-Program Articulation Agreement for a different major/degree/program at UWM.

Four-semester course sequence for completion of the MATC/UWM BA in Design Studies at UWM:

Junior Year (Fall)

Art 106	Art Survey	3
ArtHist 101	Ancient and Medieval Art and Architecture	3
Art 101	Drawing I	3
Art 422	Design Methodologies	3
Art	Studio Elective	3
Subtotal		15

Junior Year (Spring)

ArtHist 102	Renaissance to Modern Art and Architecture	3
Art 124	Design Survey	3
Art 324	Web Design	3
Art	Studio Elective	3
Art	Studio Elective	2
Subtotal		14

Total Junior Year 29

Senior Year (Fall)

Art Hist	Advanced Art History choice	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
Art 325	Web Design II	3
Art 524	Professional Practice in Design	3
Art	Studio Elective	3
Subtotal		15

Senior Year (Spring)

Art 427	Advanced Design Workshop: Design Studies BA Supervision	1
Art 505	BA Project	1
Art 604	Professional Practices	3
ArtHist	Advanced Art History choice	3
Art 509	Art and Design Seminar: (subtitle)	3
Art	Studio Elective	3
Subtotal		14

Total Senior Year 29

WCTC GRAPHIC DESIGN DEGREE AND UWM BACHELOR OF ARTS (ART) IN DESIGN STUDIES DEGREE PROGRAM

WCTC students who have successfully completed the Graphic Design AAS degree will be granted junior status in the UWM PSOA A&D BA in Design Studies program.

Laptops are required for the BA in Design Studies program.

Students need a 2.5 GPA from WCTC and need to complete the prerequisite to OWC-A (801-195) and QL-A (804-118) requirements for UWM while at WCTC. It's advisable that students also complete the Social Sciences requirements as part of their WCTC Graphic Design Associate Degree. Students should select from approved GER courses (SS). Students need to complete the UWM Foreign Language proficiency: 2 years of the same Foreign Language in High School, or 2 semesters of Foreign Language at WCTC or UWM.

WCTC students will enter the Department of Art & Design with up to 67 credits, and will take 56 credits minimum to complete the BA in Design Studies.

Program-to-Program transfer courses/credits are accepted only for the program/degree specified in this agreement. A change of major/degree/program invalidates these courses/credits for transfer unless they are approved within other Program-to-Program Articulation Agreement for a different major/degree/program at UWM.

Four-semester course sequence for completion of the WCTC/UWM BA in Design Studies at UWM:

Junior Year (Fall)

ArtHist 101	Ancient and Medieval Art and Architecture	3
Art 108	2D Concepts	3
Art 106	Art Survey	3
Art 422	Design Methodologies	3
English 102	College Writing and Research	3
Subtotal		15

Junior Year (Spring)

ArtHist 102	Renaissance to Modern Art and Architecture	3
Art 124	Design Survey	3
Art 109	3D Concepts	3
GER	Natural Science	3
Subtotal		12

Total Junior Year 27

Senior Year (Fall)

Art Hist	Advanced Art History choice	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
Art 325	Web Design II	3
GER	Natural Science Lab	3
Art	Studio Elective	3
Subtotal		15

Senior Year (Spring)

Art 427	Advanced Design Workshop: Design Studies BA Supervision	1
Art 505	BA Project	1
Art 604	Professional Practices	3
ArtHist	Advanced Art History choice	3
Art 509	Art and Design Seminar: (subtitle)	3
Art	Studio Elective	3

Subtotal		14
Total	Senior Year	29
TOTAL	CREDITS	56cr

HUBEI 3+1 BACHELOR OF ARTS (ART) DEGREE PROGRAMS

The Department of Art & Design and the Hubei University of Technology in Wuhan, China, have created a unique program for the students at Hubei University to finish their BA degree at UWM. There are two 3+1 BA tracks: Design Studies and Digital Fabrication and Design.

Laptops are required for both 3+1 BA programs. The goal of the Peck School of the Arts laptop requirement is to provide the opportunity for students to work extensively and intuitively with the most significant contemporary tool for their work so that they will excel not only in their courses but also in their profession after they graduate.

Hubei 3+1 BA in Design Studies

Students will enter UWM with 90 credits towards the BA in Design Studies (see sequence for Freshman, Sophomore, and Junior years above). The Senior year sequence of courses at UWM for the Hubei 3+1 BA in Design Studies follows:

Senior Year (Summer – optional*)

ESL	ESL course	3
Art	Directed Elective	3

Senior Year (Fall)

ESL 118	Advanced College Writing in ESL	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
Art 321	Design and Visual Communication I	3
Art 324	Web Design	3
Art 604	Professional Practices	3
Subtotal		15

Senior Year (Spring)

Eng 102	College Writing and Research	3
Art 212	Introduction to Digital Studio: A/V Strategies	3
Art 427	Advanced Design Workshop: Design Studies BA Supervision	1
Art 505	BA Project	1
Art 509	Art and Design Seminar	3
Art 524	Professional Practice in Design	3
Subtotal		14
Total	Senior Year	29

* Note: Summer Session is optional. Students who participate in summer session have the opportunity to gain more English language experience before beginning the fall semester, and also have the option to take extra electives during the year or spread out the required courses over 2 semesters + summer for a less-full workload.

Hubei 3+1 BA in Design & Digital Fabrication

Students will enter UWM with 90 credits towards the BA in Digital Fabrication and Design (see sequence for Freshman, Sophomore, and Junior years above). The Senior year sequence of courses at UWM for the Hubei 3+1 BA in Design and Digital Fabrication follows:

Senior Year (Summer – optional*)

ESL	ESL course	3
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Art	Directed Elective	3
Senior Year (Fall)		
ESL 118	Advanced College Writing in ESL	3
Art 309	Issues in Contemporary Art: Visiting Artist Lecture Series	3
Art 378	Industrial Processes and Fabrication	3
Art 578	Research in Digital Fabrication and Craft: (subtitle)	3
Art 604	Professional Practices	3
Subtotal		15
Senior Year (Spring)		
Eng 102	College Writing and Research	3
Art 478	3D Digital Fabrication and Craft	3
Art 505	BA Project	1
Art 509	Art and Design Seminar	3
Art 527	Research in Universal Design and Fabrication	3
Subtotal		13
Total	Senior Year	28

** Note: Summer Session is optional. Students who participate in summer session have the opportunity to gain more English language experience before beginning the fall semester, and also have the option to take extra electives during the year or spread out the required courses over 2 semesters + summer for a less-full workload.*

Courses

[Art](#)

[Art Education](#)

Web Home Pages:
[[Peck School of the Arts](#)]

University of Wisconsin-Milwaukee Undergraduate Catalog 2017-2018:
Art
[[Peck School of the Arts](#)]
[[Schools and Colleges](#)]
[[Contents](#) | [How to Use This Book](#) | [Calendar](#)]
[[Admission](#) | [Registration](#) | [Financial Information](#) | [Academic Information](#)]
[[Administration](#) | [UWM - Endless Possibilities](#) | [Academic Opportunities](#) | [Campus Resources](#)]

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[UWM Undergraduate Catalog 2017-2018](#)

[Peck School of the Arts](#)

Dance

- [Dance](#)
 - [Courses: Dance](#)
-

Dance

The Department of Dance offers two undergraduate degree programs that lead to a bachelor's degree in dance: the Bachelor of Fine Arts in Dance (Performance and Choreography/Contemporary) and the Bachelor of Arts (BA) in Dance. Also available is a minor in Somatics.

Admission and Retention Requirements

Admission Requirements for the Dance BFA and BA and the Inter-Arts Dual Discipline

Please see uwm.edu/arts/apply for information on admission starting spring 2017.

Students must meet general university admission requirements to be admitted to any of the undergraduate curricula as a freshman or transfer student. Passing the Dance Entrance Audition (on-campus or video) is required for entrance into the Dance BA or BFA degree programs.

On-campus auditions consist of a variety of technique classes, writing sample, one-minute solo performance (can be self-choreographed), and Q&A session. Video submission (only with prior authorization via email to dance-admission@uwm.edu) consists of writing sample, 5 minutes each of two contrasting dance techniques, and 2-3 minutes of performance video (DVD or URLs in online form). Auditions after the last on-campus audition will be by appointment or via video submission. If unsuccessful, students may re-audition, but are limited to auditioning twice per academic year (via any method).

To RSVP for a specific audition date, or to submit the video audition form (after authorization), prospective students must: (a) complete the appropriate online form at arts.uwm.edu/dance/admission and (b) submit separate copies of their high school and/or college transcripts (unofficial copies are acceptable for this purpose). Transcripts and/or video footage should be sent to dance-admission@uwm.edu or UWM Dance Admission, P.O. Box 413, Milwaukee, WI 53201.

UWM priority application deadline is March 1.

Transfer students must complete a minimum of half of the required dance credits while in residence at UWM in order to graduate. The exact total is available upon admission to the program. Transcript evaluation by a dance advisor is required before placement into dance major courses.

Once accepted, students may enter the program during either fall or spring semesters, but are strongly encouraged to enter in the fall term to progress more smoothly through the BA or BFA curricular sequence.

Each undergraduate dance major's coursework will be reviewed at the end of his/her sophomore year to determine continuance in the major, as part of the Mid-Program Portfolio Review. Students must maintain a minimum grade point average of 3.0 in the dance major.

All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department's academic requirements. Each student's ability to undertake the demands of the dance program, including his/her overall physical ability to perform in classes, auditions, rehearsals, and/or performances, will be a factor in the following: grading at the end of each semester; the audition/rehearsal/performance process for departmental productions and outreach events; the Mid-Program Portfolio Review assessment; determining "probation" status; and potentially removing a student from the program.

Admission Requirements for the Somatics Minor

Students must meet general university admission requirements to be admitted to any of the undergraduate curricula as a freshman or transfer student. Prior to completing 6-8 credits of the Somatics Minor coursework, students must apply for and be accepted into the minor. Application consists of: a) online application at uwm.edu/arts/apply/ click on Somatics Minor and b) submission of unofficial UWM transcript via email to somatic-minor@uwm.edu. No more than 6-8 credits (2-3 courses) will be applied toward the minor until after a student has been admitted and a Dance Faculty Advisor has been assigned.

Scholarships

The Dance Department distributes around \$15-20,000 in scholarships and awards to undergraduate students each year, ranging from \$400-2000 per year (amount split over fall/spring semesters, summer available upon request). Students may be awarded multiple awards over their time in the Dance Program. uwm.edu/arts/scholarships/

1. *Incoming Student Award*: no application required; award is faculty-nominated based on the student's entrance audition for admission to the program. Scholarships may not be available after the UWM priority application deadline (March 1). Award may be for one year only, or for up to four years, as long as the student continues to meet the stated requirements.
2. *Dance Undergraduate Student Scholarship*: application required, and students must have completed at least one semester of the Dance Program. Demonstrated excellence in the Dance Major is the main criteria.
3. *Ed Burgess Legacy Scholarship*: no application required; award is faculty-nominated for a student who will have junior or senior status who embodies and demonstrates the highest qualities of commitment and professional dedication to the art of dance, and has an established record of excellence in all aspects of the program. Award is for one year only, and student must have completed at least 2 semesters in the Dance Program, and be attending full-time during the award semesters.

To be eligible for any Dance Scholarship, students must meet the following criteria:

- Full-time enrollment (6 or more Dance credits each semester)
- Dance GPA of 3.5 or above
- Adherence to departmental curricular requirements
- Students who do not meet these criteria for all semesters of their award may forfeit all or part of their scholarship.

Laptops

Dance BA and BFA students are required to have a laptop computer (or comparable tablet meeting minimum specifications) by the beginning of their sophomore year, but are strongly encouraged to have one when they enter the program. The hardware and software must meet or exceed the current departmental requirements, as stated on the website (uwm.edu/arts/apply/laptop/) and in the Dance Undergraduate Student Handbook. Website also includes information on using financial aid to fund this expense.

Dance Program Mission Statement and Program Descriptions

The Department of Dance at UWM is committed to the development and training of skillful and vibrant dance artists and educators in their pursuit of a comprehensive education built upon diverse dance practices, research, and community engagement. Our department supports a thriving local and regional presence, while it opens avenues and opportunities for national and global perspectives. We offer undergraduate and graduate programs that emphasize artistic individuality and the development of the professional skills required for successful careers in dance performance, choreography, and education. Our innovative curriculum integrates multiple dance disciplines and somatic practices, creating a learning environment that prioritizes a balance of body and mind knowledge with informed, creative expression.

We offer an eclectic yet dynamic and encompassing curriculum, with specialized degree programs that include MFA in Dance, BFA in Dance (Contemporary Performance & Choreography), BFA in Inter-Arts: Dual Discipline Track, BA in Dance, and a Minor in Somatics. Our training environment consists of full-time faculty, lecturers, and guest artists who reflect strong beliefs in multiple points of view, a passionate commitment to individual development, and dedication to serving the versatile interests of our students. Renowned guest artists contribute to the dance department's curriculum each semester by providing students direct experience with current and diverse global practices in the field. These programs ensure that we offer our students directed, relevant training as the foundation for successful and sustainable careers in dance and related fields.

The creative research of both the faculty and students reflects our commitment to investigate the historical and cultural relevance of contemporary and traditional world dance forms. These pursuits ensure that we examine and support the vibrancy of cultural traditions while generating new knowledge. Intertwining creativity, scholarship, and interdisciplinary dialogue, our program is dedicated to the exploration and development of somatic inquiry, technology integration, critical thought, and original choreography.

The **Performance and Choreography/Contemporary Track in the Bachelor of Fine Arts (BFA) in Dance** prepares students to perform and create original dance choreography for theatrical productions. Dance BFA students complete a rigorous technical and creative curriculum designed to develop the student's individual artistic voice. Contemporary Track majors additionally study body/mind sciences, dance pedagogy, historical and cultural contexts for dance, and the interactive collaboration skills necessary to bring dance to the theatre with a high degree of excellence.

The **Bachelor of Arts (BA) in Dance** prepares students to teach participatory movement traditions in community settings, and to lead community groups in creating and performing their own dances and movement rituals. Community-based service-learning experiences provide many opportunities to realize these goals. Many Dance BA students pursue a double major at UWM; the service-learning component provides an opportunity to integrate the content of the two areas of study.

The **Minor in Somatics** prepares students to undertake further study in an array of artistic, teaching/learning, and health/wellness disciplines. Students will study a wide range of somatic practices, including Laban Movement Analysis, Bartenieff Fundamentals, Alexander Technique, Pilates Method, Ideokinesis, Body-Mind Centering, Authentic Movement, Iyengar Yoga, and Martial Arts.

Students in both the BFA and BA dance degree programs must complete the following Dance Foundations curriculum in their freshman year:

Dance Foundations Curriculum

Dance 110	Introduction to the Art of Dance	3
Dance 111	Ballet I	3
Dance 113	Modern Dance Technique I	3
Dance 135	Introduction to Dancemaking Skills	3
Dance 192	Dance Freshman Seminar	1

BACHELOR OF FINE ARTS IN DANCE DEGREE REQUIREMENTS

Completion of 130 credits, fulfilling the following curriculum requirements:

1. General University Core Curriculum, 45 cr, which includes the following:

- Courses that fulfill the university-wide Oral and Written Communication Competency Part A (OWC-A) and Quantitative Literacy Competency Part A (QL-A) requirements. These should be completed within the first 30 credits of the degree; and
- Nine (9) credits from Peck School of the Arts non-Dance courses, chosen from three of the five other departments in PSOA: Art & Design, Fine Arts, Music (required), Theatre, or Film, Video, Animation, and New Genres. Three of the nine credits must be chosen from the following Music course list, or alternate approved by Dance Faculty Advisor: Music 100-Intro to Classical Music, 101-Fundamentals of Music, 102-American Popular Music, 130-Beginning Piano, 140-Class Voice, 150-Beginning Guitar, 309-American Folk and Popular Music, 310-Intro to World Musics (OWC-B), 317-Intro to American Music, 356-Music in Society, 449-Women in Music, 450-Intro to Musicology, 489-Workshop with sub-topics, 680-Special Studies in Music with sub-topics.

2. Required Dance Courses, 88 cr, which include the following:

- Dance Foundations courses, 16 credits; and
- Dance courses that fulfill the university-wide Oral and Written Communication Competency Part B (OWC-B) and Quantitative Literacy Competency Part B (QL-B) requirements.

BFA PERFORMANCE AND CHOREOGRAPHY/CONTEMPORARY TRACK DANCE CURRICULUM

Dance Technique Courses

Contemporary Dance Practice: Modern Tradition - minimum of 6 semesters (16 credits)

Chosen from Dance 113, 114, 213, 214, 317, 318 – 2 or 3 credits each.

(100- and 200-level technique classes taken for 3 credits; 300-level for 2 credits)

Contemporary Dance Practice: Ballet Tradition - minimum of 6 semesters (16 credits)

Chosen from Dance 111, 112, 211, 212, 311, 312 – 2 or 3 credits each.

(100- and 200-level technique classes taken for 3 credits; 300-level for 2 credits)

Complementary Dance Technique - minimum of 2 semesters (4 credits)

Jazz Dance I (Dance 115) and Africa and the Diaspora Technique I (Dance 122) – 2 credits each.

One Jazz or African technique class is required during sophomore year. If GER-Cultural Diversity credits are desired for Dance 122, 3-credit section is mandatory.

Option: Students wishing to substitute one or two semester(s) of either ballet or modern (minimum 5 semesters of ballet and modern are required) for additional Complementary Dance Technique course(s) in Jazz, Africa and Diaspora Technique, Tap, Music Theatre Styles: chosen from Dance 116, 117, 123, 217, 222, 327, 427. Student must approach his/her Dance Faculty Advisor the semester prior to enrollment for substitution approval.

Somatic and Conditioning Practices - minimum of 3 semesters (6 credits)

(Yoga, Pilates, Body Sense, Alexander Technique)

Chosen from Dance 103, 220, 321, 323, 403, 421, 623 – 2 or 3 credits each.

Total Technique Credits

42

Dance Creative Courses

Dance 135***	Introduction to Dancemaking Skills	3
Dance 231	Music and Dancers	3
Dance 233***	Improvisation for Dancemaking	3
Dance 352	Digital Media Portfolio for Performers	3
Dance 412***	Dance Composition I	3
Dance 413	Dance Composition II	3
Dance 414	Dance Composition III (Dance 415 may be substituted only with prior dance faculty approval)	3
Dance 490*	Repertoire and Ensemble	3
Total Creative Credits		24

Dance Academic Courses

Dance 110***	Introduction to the Art of Dance	3
Dance 192	Dance Freshman Seminar	1
Dance 209***	Dance Production	2
Dance 250	Dance Sophomore Seminar	0
Dance 251	Laban Movement Analysis	3
Dance 309***	Dance Production Practicum	1
Dance 314	Contemporary Dance History	3
Dance 350	Dance Senior Seminar	0
Dance 371	Applied Anatomy	3
Dance 460	Teaching Dance in Community Settings	3
Dance 601	Senior Project	3
Total Academic Credits		22

* Any dancer cast in faculty or guest artist choreography must be enrolled in at least 3 UWM Department of Dance technique classes per week during the rehearsal semester.

** Per departmental policy, any time a student is cast in a faculty or guest artist work and is enrolled for less than 18 credits, he/she must enroll in Dance 490 for 1 credit during the appropriate semester.

*** Coursework involved in MPPR guidelines.

Recommended Course of Study

Freshman Year (Includes Foundations Curriculum)

		Cr
Fall Semester		
Dance 111	Ballet I	3
Dance 113	Modern Dance Technique I	3
Dance 135	Introduction to Dancemaking Skills	3
Dance 192	Dance Freshman Seminar	1
Dance 209	Dance Production	2
	University Core	3
Spring Semester		
Dance 110	Introduction to the Art of Dance	3
Dance 112	Contemporary Dance Practice: Ballet Tradition II	3
Dance 114	Contemporary Dance Practice: Modern Tradition II	3
Dance 233	Improvisation for Dancemaking	3
Dance 309	Dance Production Practicum	1

	University Core	3
Total	Freshman Year	31
Sophomore Year		
Fall Semester		Cr
Dance 103, 321, or 323	Introduction to Iyengar Yoga, Alexander Technique, or Body Conditioning: Pilates	2
Dance 115 or 122	Jazz Dance I or African Dance and Diaspora Technique I (3 cr. if GER-CD is desired)	2
Dance 213	Contemporary Dance Practice: Modern Tradition III	3
Dance 250	Dance Sophomore Seminar	0
Dance 314	Contemporary Dance History (OWC-B)	3
Dance 412	Dance Composition I	3
	University Core	3
Spring Semester		
Dance 211	Contemporary Dance Practice: Ballet Tradition III	3
Dance 231	Music and Dancers	3
Dance 371	Applied Anatomy	3
Dance 490**	Repertoire and Ensemble	1
	University Core	6
Total	Sophomore Year	32
Junior Year		
Fall Semester		Cr
Dance 214	Contemporary Dance Practice: Modern Tradition IV	3
Dance 251	Laban Movement Analysis (QL-B)	3
Dance 350	Dance Upper-Level Seminar	0
Dance 413	Dance Composition II	3
Dance 490**	Repertoire and Ensemble	1
	University Core	6
Spring Semester		Cr
Dance 103, 321, or 323	Introduction to Iyengar Yoga, Alexander Technique for the Performer, or Body Conditioning: Pilates Method	2
Dance 212	Contemporary Dance Practice: Ballet Tradition IV	3
Dance 352	Digital Media Portfolio for Performers	3
Dance 414	Dance Composition III	3
	University Core	6
Total	Junior Year	33
Senior Year		
Fall Semester		Cr
Dance 403, 421, or 623	Intermediate Yoga for Dancers, Alexander Technique Practicum, or Body Conditioning: Pilates Method II	2
Dance 311	Contemporary Dance Practice: Ballet Tradition V	2
Dance 317	Contemporary Dance Practice: Modern Tradition V	2
Dance 460	Teaching Dance in Community Settings	3
Dance 601	Senior Project	3
	University Core	6
Spring Semester		Cr
Dance 115 or 122	Jazz Dance I or African Dance and Diaspora Technique I (3 cr. if GER-CD is desired)	2
Dance 312	Contemporary Dance Practice: Ballet Tradition VI	2
Dance 318	Contemporary Dance Practice: Modern Tradition VI	2
Dance 490**	Repertoire and Ensemble	1
	University Core	9
Total	Senior Year	34

** Per departmental policy, any time a student is cast in a faculty or guest artist work and is enrolled for under 18 credits, he/she must enroll in Dance 490 for 1 credit during the appropriate semester.

TOTAL REQUIRED CREDITS FOR BFA DEGREE

130

BACHELOR OF ARTS IN DANCE DEGREE REQUIREMENTS

1. General University Core Curriculum, 45 credits, which includes the following:

- Courses that fulfill the university-wide Oral and Written Communication Competency Part A (OWC-A) and Quantitative Literacy Competency Part A (QL-A) requirements. These should be completed within the first 30 credits of the degree; and
- Nine (9) credits from Peck School of the Arts non-Dance courses, chosen from three of the five other departments in PSOA: Art & Design, Fine Arts, Music (required), Theatre, or Film, Video, Animation and New Genres. Three of the nine credits must be chosen from the following Music course list, or alternate approved by Dance Faculty Advisor: Music 100-Intro to Classical Music, 101-Fundamentals of Music, 102-American Popular Music, 130-Beginning Piano, 140-Class Voice, 150-Beginning Guitar, 309-American Folk and Popular Music, 310-Intro to World Musics (OWC-B), 317-Intro to American Music, 356-Music in Society, 449-Women in Music, 450-Intro to Musicology, 489-Workshop with sub-topics, 680-Special Studies in Music with sub-topics.

2. Required Dance Courses, 66 credits, which include the following:

- Dance Foundations courses, 16 credits; and
- Dance courses that fulfill the university-wide Oral and Written Communication Competency Part B (OWC-B) and Quantitative Literacy Competency Part B (QL-B) requirements.

3. General Electives, 9 cr.

BA DANCE CURRICULUM

Dance Technique and Somatics Courses

Dance 103	Introduction to Iyengar Yoga	2
Dance 111	Ballet I	3
Dance 113	Modern Dance Technique I	3
Dance 112, 211, and 212	Contemporary Dance Practice: Ballet Tradition II-IV (Students must pass 212 with a B minimum.)	9
or		
Dance 114, 213, and 214	Contemporary Dance Practice: Modern Tradition II-IV (Students must pass 214 with a B minimum.)	9
Dance 122, or 335, or 338, or 370	African Form: African Dance and Diaspora Technique I, or Hip Hop I, or Capoeira: Afro-Brazilian Dance, or approved World Movement Traditions Sub-topic (3 credits if GER-CD is desired for Dance 122.)	2
Dance 220	Body Sense	3
Dance 336, or 338, or 370	Latino/Hispanic Form: Salsa and Merengue I or Capoeira: Afro-Brazilian Dance or approved World Movement Traditions Sub-topic	2
Dance 334 or 370	Asian Form: Tai Chi Chuan or approved World Movement Traditions Sub-topic	2
Dance 337 or 370	European Form: Ballroom Forms I or approved World Movement Traditions Sub-topic	2

Total Techniques and Somatics Credits

28

Dance Creative and Academic Courses

Dance 110***	Introduction to the Art of Dance	3
Dance 135	Introduction to Dancemaking Skills	3
Dance 192	Dance Freshman Seminar	1
Dance 219***	Arts in Community Service	3
Dance 233	Improvisation for Dancemaking	3
Dance 250	Dance Sophomore Seminar	0
Dance 251	Laban Movement Analysis (QL-B)	3
Dance 313, 314, or 315	History of Dance in the African Diaspora, Contemporary Dance History, or History of the American Musical Theater (OWC-B)	3
Dance 319	Dance Service Learning	1
Dance 320***	Rituals and Culture	3
Dance 350	Dance Upper-Level Seminar	0
Dance 352	Digital Media Portfolio for Performers	3
Dance 371	Applied Anatomy	3
Dance 420***	Creating Dance in the Community	3
Dance 460	Teaching Dance in Community Settings	3
Dance 601	Senior Project	3
Total Creative and Academic Credits		38

Recommended General Electives

Dance, Movement, and Theatre electives from the following Dance and Theatre courses.

Dance 115 and 116	Jazz Dance I and II	2
Dance 117 and 217	Tap I and II	2
Dance 313, 314, and/or 315	History of Dance in the African Diaspora, Contemporary Dance History, or History of the American Musical Theater (OWC-B)	3
Dance 321 and 421	Alexander Technique for the Performer, Alexander Technique Practicum	
Dance 323 and 623	Body Conditioning: Pilates Method, Body Conditioning: Pilates Method II	2
Dance 327***	Dance for Musical Theatre Style I	2
Dance 427***	Dance for Musical Theatre Style II	2
Dance 403	Intermediate Yoga for Dancers	2
Dance 490/491*	Repertoire and Ensemble, Repertory/Student Choreographer	1-3**
Theatre 101	Acting for Non-Majors	3
Theatre 260	Storytelling: (subtitle)	3
Theatre 275	Performing Arts Management	3
Theatre 320	Performing Community	3

* Any dancer cast in faculty or guest artist choreography must be enrolled in at least 3 UWM Department of Dance technique classes per week during the rehearsal semester.

** Per departmental policy, any time a student is cast in a faculty or guest artist work and is enrolled for less than 18 credits, he/she must enroll in Dance 490 for 1 credit during the appropriate semester.

Recommended Course of Study

Freshman Year (Includes Foundations Curriculum)

Fall Semester

Dance 111	Ballet I	3
Dance 135	Introduction to Dancemaking Skills	3
Dance 192	Dance Freshman Seminar	1
	University Core	9
Spring Semester		
Dance 110	Introduction to the Art of Dance	3
Dance 113	Modern Dance Technique I	3
Dance 219	Arts in Community Service	3
Dance 233	Improvisation for Dancemaking	3
	University Core	3
Total	Freshman Year	31
Sophomore Year		
Fall Semester		
Dance 122, or 335, or 338, or 370	African Form: African Dance and Diaspora Technique I, or Hip Hop I, or Capoeira: Afro-Brazilian Dance, or approved World Movement Traditions Sub-topic	2
Dance 220	Body Sense	3
Dance 250	Dance Sophomore Seminar	0
	University Core	9
Spring Semester		
Dance 112 or 114	Contemporary Dance Practice: Ballet or Modern Tradition II	3
Dance 319	Dance Service-Learning	1
Dance 320 or 420	Rituals and Culture or Creating Dance in the Community	3
Dance 371	Applied Anatomy	3
	University Core	6
Total	Sophomore Year	30
Junior Year		
Either Fall or		3
Spring Dance 313, or 314, or 315	History of Dance in the African Diaspora, or Contemporary Dance History, or History of the American Musical Theater (OWC-B)	
Fall Semester		
Dance 313	Laban Movement Analysis (QL-B)	3
Dance 350	Dance Upper-Level Seminar	0
Dance 336, or 338, or 370	Latino/Hispanic Form: Salsa and Merengue I, or Capoeira: Afro-Brazilian Dance, or approved World Movement Traditions Sub-topic	2
Dance 460	Teaching Dance in Community Settings	3
	University Core	3
Spring Semester		
Dance 211 or 213	Contemporary Dance Practice: Ballet or Modern Tradition III	3
Dance 320 or 420	Rituals and Culture or Creating Dance in the Community	3
Dance 352	Digital Media Portfolio for Performers	3
	University Core	6
Total	Junior Year	29
Senior Year		
Fall Semester		
Dance 103	Introduction to Iyengar Yoga	2
Dance 337 or 370	European Form: Ballroom Forms I or approved World Movement Traditions Sub-topic	2
	University Core	12
Spring Semester		
Dance 212 or 214	Contemporary Dance Practice: Ballet or Modern Tradition IV	3
Dance 334 or 370	Asian Form: Tai Chi Chuan or approved World Movement Traditions Sub-topic	2

Dance 601	Senior Project	3
	University Core	6
Total	Senior Year	30

TOTAL REQUIRED CREDITS FOR BA DEGREE **120**

SOMATICS MINOR REQUIREMENTS

Continuation Requirements. Students are required to submit a one-page paper each time they complete a class in the Minor, reflecting on how the class fits within the broader context of somatic integration. The paper should be submitted via email to the co-directors of the program at somatic-minor@uwm.edu. If the paper is not emailed within a week of the end of the term, that course may not count towards Minor requirements.

Students must maintain a 2.75 GPA overall to remain in the Somatics Minor.

All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department's academic requirements for the Somatics Minor.

SOMATICS MINOR CURRICULUM

Required Courses in Dance

Dance 103	Introduction to Iyengar Yoga	2
Dance 133 or 233	Creative Movement (for Non-Dance majors) or Improvisation for Dancemaking (for Dance majors)	3
Dance 220	Body Sense	3
Dance 251	Laban Movement Analysis (QL-B)	3
Dance 321	Alexander Technique for the Performer	2
Dance 414 or 601	Capstone Course: Dance Composition III (for Dance BFA majors) or Senior Project (for Dance BA or Non-Dance majors)	3
Dance 371	Applied Anatomy	3
Total		16

Electives in Dance (please choose 12 cr from the following):

Dance 122, or 334, or 370	African Dance and Diaspora Technique I, or Tai Chi Chuan, or approved World Movement Traditions Sub-topic	2
Dance 323	Body Conditioning: Pilates Method	2
Dance 360	Movement and Learning	3
Dance 371	Applied Anatomy (strongly recommended for students whose major doesn't include anatomy/kinesiology)	3
Dance 403	Intermediate Yoga for Dancers	2
Dance 421	Alexander Technique Practicum	2
Dance 489	Workshop in Dance: approved Somatic sub-topic(s) only	2-3
Dance 623	Body Conditioning: Pilates Method II	2
Total		12

Total Credits for Somatics Minor **28**

Recommended Course of Study

Freshman Year

Fall Semester: Dance 220 taught by Dance Faculty

Spring Semester: Dance 321

Sophomore Year

Dance 103, Dance 133 or 233, Dance 371

Junior Year

Dance 251, Dance 323 or 421, Dance 360

Senior Year

Dance 334, Dance 414 or 601

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Film, Video, Animation, and New Genres

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The Department of Film, Video, Animation, and New Genres in the Peck School of the Arts offers an integrated program of study leading to a BFA in Film.

NOTE: Students in Film, Video, Animation, and New Genres are required to have a laptop computer and video editing software.

FILM BFA DEGREE REQUIREMENTS

Film, Video, Animation, and New Genres

The Film, Video, Animation, and New Genres (FVANG) leading to the Bachelor of Fine Arts degree in Film requires 120 credits distributed as follows:

1. University Core Curriculum (includes Arts Distribution Requirement), 45 credits.
2. FVANG Requirements; 72 credits
 - Department Foundation: Film 114, 116, 117, 118, 201, 231; 18 credits.
 - Foundation Studios: Film 222 required, plus one of Film 220, 232, or 255; 6 credits.
 - Foundation Review.
 - 300+ level Production Skills classes; 15 credits.*
 - 300+ level Portfolio Production classes; 6 credits.**
 - Contextual Topics: Film 303, plus 6 credits Film 316, 318, 319, 434; 9 credits.***
 - FVANG Electives, any level; 6 credits.
 - Professional Practice/Internship; 3 credits ****
 - Senior Project: Film 509, 510; 9 credits.
3. General Elective chosen from any departments outside of Film; 3 credits.

Course of Study. The Film, Video, Animation, and New Genres degree program is an integrated course of study in which students create individual projects in film, video, or other media every semester. This is accomplished through a

required sequence of six department Foundation courses and two Foundation Studios, followed by a series of required and elective courses in the 72-credit major.

Admission to the Major. Students are admitted to the Film, Video, Animation, and New Genres major upon completion of the UWM Oral and Written Communication (OWC) Part A requirement; the Quantitative Literacy (QL) Part A requirement; 18 credits of the department Foundation Curriculum (Film 114, 116, 117, 118, 201, and 231); 6 credits of Foundation Studios (Film 222 plus one of Film 220, 232, or 255); and passing Foundation Review.

The following outline will serve as a guide in planning for studies in Film, Video, Animation, and New Genres. Students are encouraged to consult regularly with their school and departmental advisors. All course waivers or changes in the requirements of the major should be directed to a department or school academic advisor and must have the written approval of the department chair.

Year 1: Fall

- 114 Film and Experience: The Filmmaker and the Viewer (3 cr)
- 116 Listening and Recording (3 cr)
- 117 Filmmaking Technologies and Techniques (3 cr)

Two of the following:

- English 102 College Writing and Research (OWC-A) (3 cr) (English 233 Intro to Creative Writing (3 cr) recommended for students exempted from English 102)
- Art History 205 History of Film I: Development of an Art (GER-H) (3 cr)
- Math 103, 105, or 107 (QL-A) (3 cr)
- PSOA Core Course****(3 cr)
- University Core (GER) (3 cr)++

Year 1: Spring

- 118 Image and Sound (3 cr)
- 201 Introduction to Experimental Media Arts (3 cr)
- 231 Concept Development for Film Practice (3 cr)

Two of the following:

- English 102 College Writing and Research (OWC-A) (3 cr) (English 233 Intro to Creative Writing (3 cr) recommended for students exempted from English 102)
- Math 103, 105, or 107 (QL-A); (3 cr)
- PSOA Core Course****(3 cr)+
- University Core (GER) (3 cr)++

Year 2: Fall

- 222 Introduction to Digital Filmmaking
- 220 16mm Filmmaking II or 232 Introduction to Animation or 255 Introduction to Digital Arts
- FVANG Elective

Two of the following:

- Art History 205 History of Film I: Development of an Art (GER-H) (3 cr)
- Math 103, 105, or 107 (QL-A) (3 cr)
- University Core (GER)++ (English 215 Introduction to English Studies (3 cr) highly recommended to fulfill OWC-B & GER-H)
- PSOA Core Course****(3 cr)+

FVANG Elective (3 cr)

Foundation Review is held at the end of each semester, when the Film Faculty reviews 2 self-authored media projects and a transcript from eligible students. Eligibility is attained through successful completion of Film 114, 116, 117, 118, 201, 222, 231, plus one of 220, 232, or 255.

Year 2: Spring

- Production Skills Elective (6 cr)
- Portfolio Production Elective (3 cr)
- University Core (6 cr)++

Year 3: Fall

- Film 303 (3 cr)
- Production Skills (3 cr)
- Portfolio Production (3 cr)
- University Core (3 cr)++

Year 3: Spring

- Production Skills (3 cr)
- Contextual Elective (3 cr)
- FVANG Elective (3 cr)
- University Core (6 cr)++

Year 4: Fall

- Production Skills (3 cr)
- Professional Practice/Internship (3 cr)
- Film 509 Senior Project I (3 cr)
- University Core (6 cr)++

Year 4: Spring

- Film 510 Senior Project II (6 cr)
- Contextual Elective (3 cr)
- University Core (3 cr)++
- General Elective (3 cr)

Key:

* Production Skills

380, 420, and 460 classes including: Cinematography; Editing, Field Recording & Digital Audio; Lighting; Visual Effects Studio; Director of Photography; Post-Production Sound; Collaborative Filmmaking; Film Score Studio; Stop Motion Animation; DIY Camera Movement; Interactive Animation; Digital Filmmaking Workshop; Art Direction for Film. A full list of eligible courses will be available each semester.

** Portfolio Production

380, 420, and 460 classes including: Narrative Production; Experimental Narrative; Animation Studio; Zen & the Art of Filmmaking; Appropriated Media; Observational Documentary; Dreams: Yours, Mine, Ours; Experimental 16mm; Landscapes/Filmscapes. A full list of eligible courses will be available each semester.

*** Contextual Topics

Multiple classes, including 316, 318, 319, 341, and 434. A full list of eligible courses will be available each semester.

****** Professional Practice/Internship**

Includes 250/450 Internship/Professional Practice; 341 The Producer's Role; The Screenwriting Business; 420 Documentary Projects (DocUWM); Inside the Film Business; Milwaukee Underground Film Festival; The Animation Business. A full list of eligible courses will be available each semester.

+ PSOA Core

Film students take 12 credits of PSOA classes outside of FVANG, including at least three different departments (Art & Design, Dance, Music, Theatre). It is highly recommended that Film majors include Theatre 110 Fundamentals of the Actor's Process as part of their PSOA Core.

++ University Core

Includes Oral and Written Communication (parts A & B), Quantitative Literacy (parts A & B), General Education Requirements in Humanities, Natural Science, Social Science, and Cultural Diversity, plus the PSOA Core, for a total of 45 credits.

Consult your academic advisor in the Peck School of the Arts Student Services Office for electives in the PSOA Core Curriculum and General Education Requirement courses.

Film, Video Animation, and New Genres Electives

Film 150 Multicultural America

Film 203 Media Workshop: (subtitle)

Film 220 16mm Filmmaking II

Film 222 Introduction to Digital Filmmaking

Film 232 Introduction to Animation

Film 234 Introduction to the Screenplay

Film 250 Internship/Professional Practice

Film 251 Theory/Practice Workshop: (subtitle)

Film 255 Introduction to Digital Arts

Film 297 Study Abroad

Film 299 Independent Study

Film 301 Conversations with Filmmakers and Critics: (subtitle)

Film 302 Video in the Classroom

Film 316 Filmmaker as Theorist/Practitioner: (subtitle)

Film 318 Film and the Visual and Performing Arts: (subtitle)

Film 319 Film Genres: (subtitle)

Film 320 Structures of Film

Film 341 Theory/Practice Seminar: (subtitle)

Film 380 Media Arts Module: (subtitle)
Film 389 Media Arts Workshop: (subtitle)
Film 399 Advanced Independent Study
Film 420 Intermediate Media Arts Module: (subtitle)
Film 434 Film Aesthetics: (subtitle)
Film 450 Advanced Internship/Professional Practice
Film 455 Integrated Film/Video Exploration
Film 460 Advanced Media Arts Module: (subtitle)
Film 470 Advanced Media Arts Workshop: (subtitle)
Film 497 Study Abroad: (subtitle)
Music 327 Analog and Digital Synthesis I
Music 328 Digital Synthesis and Systems II
Music 420 Advanced Computing and Music

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Inter-Arts

- [Courses: Fine Arts \(FINEART\)](#)

COURSE OF STUDY

ATTENTION PROSPECTIVE INTER-ARTS BFA/MUSICAL THEATRE TRACK STUDENTS: No new students are being accepted into the Inter-Arts/Musical Theatre track as of the 2015 fall semester. A new Musical Theatre degree program is now being offered under the Theatre Department of the Peck School of the Arts. Please consult the Theatre Department's degree program information in this catalog for detailed information on the new program.

The BFA in Inter-Arts is designed to nurture and develop a mature interdisciplinary/multidisciplinary artist, critic, or scholar. The two tracks leading to the Inter-Arts BFA degree lay strong developmental foundations coupled with advanced project creation by students in both tracks. Each track provides a capstone experience in which the student reveals advanced interdisciplinary/multidisciplinary accomplishment as well as a unique personal voice.

Students majoring in Inter-Arts can choose one of two tracks: the Dual Discipline Track (Track 1) or the Interdisciplinary Arts and Technology Track (Track 2).

Laptop Requirement. All entering Interdisciplinary Arts and Technology (IAT) students are required to participate in the PSOA Laptop program. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/.

The two Inter-Arts tracks leading to the degree of Bachelor of Fine Arts require a minimum of 120 credits for graduation distributed as follows:

1. Peck School of the Arts Inter-Arts Major/Dual Discipline Track:

Core Curriculum	45*
Studio Courses	72
Electives	3
Total	120

2. Peck School of the Arts Inter-Arts Major/Interdisciplinary Arts and Technology (IAT) Track:

Core Curriculum	45*
IAT Courses	66
Electives	9
Total	120

* All Inter-Arts BFA students who complete an introductory-level course in four of the PSOA's five departments will have met the PSOA distribution requirement.

DUAL DISCIPLINE TRACK (TRACK 1)

Students must select two 36-credit options from the following five department curricula in order to complete the 72-credit studio course component of the Inter-Arts Track 1.

Art Curriculum (36 cr)

A portfolio review is required for admission. Please see admission requirements for Art & Design Program.

Pre-Art Requirements

Art 101	Drawing I	3
Art 106	Art Survey	3
Art 108	2D Concepts	3
Art 109	3D Concepts	3
Art 118	Digital Arts: Culture, Theory, Practice	3
Subtotal		15

Areas of Concentration

Students choose either one area (Option #1) or two areas (Option #2) of concentration from the following options:

Ceramics
 Cross Disciplinary
 Digital Studio Practice
 Fibers
 Jewelry and Metalsmithing
 Painting and Drawing
 Photography
 Print and Narrative Forms
 Sculpture

Option #1

Art 2xx	One intro-level course in area of concentration	3
Art 3xx/4xx	Five advanced-level courses in area of concentration	15

Option #2

Art 2xx	Two intro-level courses from two different areas of concentration	6
Art 3xx/4xx	Four advanced-level courses in area of concentration	12

Art & Design Capstone Requirement

Art 604	Professional Practices	3
Art 605	BFA Exhibition	0
Subtotal		3

Dance Curriculum (36 cr)

Audition Requirement. Students selecting the Inter-Arts Dance Curriculum option must pass an entry audition into the Dance program.

Dance 110	Introduction to the Art of Dance	3
Dance 135	Introduction to Dancemaking Skills	3
Dance 213	Modern Dance Technique III	3
Dance 214	Modern Dance Technique IV	3
Dance 233	Improvisation for Dancemaking	3
Dance 314	Contemporary Dance History	3
Dance 317	Modern Dance Technique V	2
Dance 318	Modern Dance Technique VI	2
Dance 412	Dance Composition I	3
Dance 415	Movement and New Media Collaborations	3
Dance 490	Repertoire and Ensemble	3
Dance 601	Senior Project	3
Dance 122 or Dance 370	1 semester of cultural dance style chosen from African Dances: (subtitle) or World Movement Traditions: (subtitle)	2
Dance Curriculum Total		36

All dance majors must maintain a 3.0 GPA in department courses to remain in the program. In addition, Dance Inter-Arts BFA candidates must pass a mid-program performance review for continuance in the program.

Film, Video, Animation, and New Genres Curriculum (36 cr)

Film 116	Listening and Recording	3
Film 117	Filmmaking Technologies and Techniques	3
Film 201	Introduction to Experimental Media Arts	3
or		
Film 202	Current Topics in Media Arts Production	3
Film 114	Film and Experience: The Filmmaker and the Viewer	3
or		
Film 210	Concepts of Production in the Media Arts	3
Subtotal		12

Film, Video, Animation, and New Genres Pre-Portfolio Studios (Students select two courses for a total of 6 credits.)

Film 220	Basic Elements of Filmmaking	3
Film 222	Introduction to Digital Filmmaking	3
Film 255	Introduction to Digital Arts	3
Subtotal		6

Film, Video, Animation, and New Genres Electives

15 credits of electives selected from Film courses that are 300 level and above. To be taken after portfolio review. A minimum of 9 credits must be selected from the following:

Film 380	Media Arts Module: (subtitle)	3-9
Film 420	Intermediate Media Arts Module: (subtitle)	3-9
Film 460	Advanced Media Arts Module: (subtitle)	3-9
Subtotal		15
Film 509	Senior Project I	3
Subtotal		3
Film, Video, Animation, and New Genres Curriculum Total		36

Music Curriculum (36 cr)

Audition Requirement. Students selecting the Inter-Arts Music Curriculum option must pass an audition at the 200 level of proficiency.

Music 101	Fundamentals of Music*	3
or		
Music 123 and 127	Aural Theory I (1 cr) and Materials of Theory I (2 cr)	3
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 211	General History of Western Music I	3
Music 212	General History of Western Music II	3
Music 307	General History of Western Music III	3
MusPerf 2xx	Performance Instrument (4 semesters)	4
MusPerf 1	Fundamentals of Piano: (subtitle)**	1
Music xxx	Performing Organization Courses (4 semesters)	4
Music xxx	Music History Electives	3
Music xxx	Music Theory Electives	3
Music xxx	Music Electives	5-9
Music Curriculum Total		36

* May be required as determined by proficiency examination. If waived by proficiency exam, then credits must be taken as Music electives.

** MusPerf 1 may be waived by examination. If MusPerf 1 is waived, then credit must be taken as either a Music elective or as an additional semester of MusPerf 2xx Performance Instrument.

Theatre Curriculum (36 cr)

Theatre Core

Theatre 110	Fundamentals of the Actor's Process	3
Theatre 213	Play Analysis	3
Theatre 236	Theatre Production and Design	3
Theatre 275	Performing Arts Management	3
Theatre 305	The Theatrical Experience: (subtitle)	3
<i>Select one of the following:</i>		
Theatre 214	Stagecraft	4
Theatre 225	Costume Construction	4
<i>Pick any two of the following:</i>		
Theatre 321	The Theatre – Beginnings Through Realism	3
Theatre 322	The Theatre – Modern and Contemporary Period	3

Theatre 323	Special Topics in World Theatre: (subtitle)	3
Subtotal		25

Theatre Electives: 11 credits from the following electives

Costume Option

Theatre 304	Costume Design	3
Theatre 325	History of Costume	3
Theatre 224	Make-up	3
Theatre 343	Patternmaking I	3
Theatre 401	Fabric Painting and Dyeing	3

Performance Option

Theatre 108	Introduction to Musical Theatre	3
Theatre 111	Theatre Games	3
Theatre 204	Participatory Theatre	3
Theatre 230	Acting II – Text and Performance	3
Theatre 231	Introduction to Voice and Speech	3
Theatre 260	Storytelling	3
Theatre 330	Acting Topics	3
Theatre 410	Stage Directing	3
Theatre 472	Performance Workshop Capstone	3
Theatre 699	Independent Study	2

Playwriting Option

Theatre 359	Playwriting	3
Theatre 459	Playwriting II	3
Theatre 465	Theatre Capstone: (subtitle)	3

Technical Theatre Option

Theatre 215	Properties Production	3
Theatre 318	Scene Design	3
Theatre 319	Scenic Painting	3
Theatre 337	Sound Production	3
Theatre 338	Lighting Production	3
Theatre 437	Sound Design and Technology	3
Theatre Curriculum Total		36

INTERDISCIPLINARY ARTS AND TECHNOLOGY (IAT) (Track 2)

Admission Requirements

Students planning to pursue the IAT track of the Inter-Arts degree must meet the admission and degree requirements of the Peck School of the Arts. After completing the Inter-Arts/IAT core (12 cr) and the Pre-IAT Studios (12 cr), IAT track majors will have their portfolio reviewed for approval by the IAT Review Committee.

Inter-Arts/IAT BFA Degree Requirements

University Core Curriculum	45
Inter-Arts/IAT Requirements	66
Electives	9
BFA Degree in Inter-Arts/IAT Track	120

IAT Requirements

Inter-Arts/IAT Core: 12 cr (included in University Core Curriculum)

Art 118	Digital Arts: Culture, Theory, Practice	3
Film 116	Listening and Recording	3
Music 220	Introduction to Computers with Music	3
Dance 321	Alexander Technique for the Performer	3

Pre-IAT Studios: 12 cr

Art 218	2D Design Strategies	3
Film 222	Introduction to Digital Filmmaking	3
Film 255	Introduction to Digital Arts	3
Music 327	Analog and Digital Synthesis I	3

Portfolio review: After completing the Inter-Arts/IAT Core and Pre-IAT Studio requirements, students submit:

1. a portfolio of three projects: two projects from different IAT studio courses and one project in any medium;
2. a completed application form; and
3. a copy of their academic transcript.

The IAT Review Committee will consider the artistic strength of the portfolio projects, student performance in classes, and overall GPA. All materials must be received by the posted deadline at the end of fall and spring semesters. The IAT Review Committee consists of a minimum of one representative faculty member from each discipline and the program coordinator(s), with a maximum of six faculty members. Faculty who have worked with these students are encouraged to share impressions of student work, maturity, and growth.

IAT Post-Portfolio Core: 15 cr

Art 316	Interactive and Multimedia Art	3
Dance 415	Movement and New Media Collaborations	3
Film 380	Media Arts Module: Physical Computing	3
FineArt 313	Programming for Artists	3
Music 680	Special Studies in Music: (subtitle)*	3

* *Topics as approved on list maintained by IAT Coordinator*

IAT Electives: 21 cr

Courses are selected from the approved list maintained by the IAT Coordinator. Students must take course prerequisites or seek permission of instructor for admission.

Art 224	Dynamic Typography	3
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Art/Film 259/459	Photography Workshop: (subtitle)	3
Art 393	Digital Printmaking	3
Art 493	Advanced Digital Printmaking	3
Art 317	3D Imaging I	3
Art 319	Hybrid Sculptural Forms: (subtitle)*	3
Art 324	Web Design	3
Art 327	Digital Media Workshop: (subtitle)*	3
Art/Film 350	Color Photography	3
Art 402	Art and Design Workshop: (subtitle)*	3
Art 427	Advanced Design Workshop: (subtitle)*	3
Film 380	Media Arts Module: (subtitled)*	3
Film 420	Intermediate Arts Module: (subtitle)*	3
Film 455	Integrated Film/Video Exploration	3
Film 460	Advanced Media Arts Module: (subtitle)*	3
FineArt 411	Time/Space II	3
FineArt 311	Spatial Interactivity I	3
FineArt 511	Spatial Interactivity II	3
Music 301	Music Theory for Interdisciplinary Studies	3
Music 328	Digital Synthesis and Systems II	3
Music 420	Advanced Computing and Music	3
Music 680	Special Studies in Music: (subtitle)*	3

** Topics as approved on list maintained by IAT Coordinator*

Theory and Context Courses: 6 cr

Electives (300 level or above from approved list)

Capstone Courses: 12 cr

FineArt 410	IAT Junior Project	6
FineArt 510	IAT Senior Project	6

IAT Junior and Senior Projects. Students must complete the projects in good standing and present their work in a public exhibition/screening at the end of the semester.

General Electives: 9 cr

Total Inter-Arts/IAT BFA Degree Credits **120**

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Undergraduate Programs

The Department of Music offers courses of study in Music Performance (Winds, Brass, Percussion, Strings, Piano, Voice, and Guitar), Music Education, Music History and Literature, and Music Composition and Technology. The Bachelor of Fine Arts (BFA) program is designed for students seeking intensive study to develop those skills needed for a professional career and/or preparation for graduate school. The Bachelor of Arts (BA) degree is designed for students looking for a broad-based understanding of multiple aspects of Music in addition to areas outside of the Music field. Our faculty and programs maintain strong partnerships with performance organizations in Milwaukee and the surrounding region providing a vibrant urban location that puts students in the cultural mainstream of a thriving and sophisticated metropolis of more than one million people.

The department is an accredited member of the National Association of Schools of Music (NASM) and provides professional training and personal enrichment as the main focus of the Music curriculum. Visit us at:

The various undergraduate curricula lead to the Bachelor of Fine Arts in Music, Bachelor of Fine Arts in Music Education, or Bachelor of Arts in Music degree. The following courses of study are available:

Music Performance. A curriculum in voice, keyboard, or another instrument that prepares the student for both professional performance and studio teaching.

Collaborative Piano-Vocal. A curriculum with an emphasis on vocal arts is one of few such undergraduate programs offered nationwide. It offers training for pianists anticipating careers in vocal accompanying, as well as coaching art song, opera, and musical theatre. Students receive weekly lessons in collaborative piano, as well as solo piano, and piano technique. They also participate in rehearsals and performances for the UWM Opera Theatre, Milwaukee Opera Theatre, and UWM choirs.

Music Education. A curriculum in choral, instrumental, and/or general (K-12) music education culminating in certification by the State of Wisconsin Department of Public Instruction that prepares students to teach music in elementary and secondary schools.

Music History and Literature. A curriculum that focuses on the historical and critical study of music and prepares the student for specialization and graduate work in musicology, music librarianship, and music criticism.

Music Composition and Technology. A curriculum that prepares the student for a professional career in composition and specialization in creative musical writing and related analytical skills and electronic music software applications.

Bachelor of Arts in Music. A general Music degree designed for Music students interested in combining a Music major with a second major or minor in a non-music degree program.

Graduate Programs

The various graduate curricula lead to the Master of Music with concentrations in Music Performance, Conducting, Music Composition, Music History and Literature, and Music Education. (See the *Graduate School Bulletin* for details.)

The Leonard Sorkin International Institute of Chamber Music is a two-year program leading to a Certificate in Chamber Music Performance.

Music for the Non-Major

While professional training is the main thrust of the UWM Music curricula, the department offers many personal enrichment courses for the non-music major. UWM students have the opportunity to participate in a wide range of performing organizations such as the University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, Collegium Musicum, Gospel Choir, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. The following academic Music courses are also offered: Introduction to Classical Music, The Concert Experience, Introduction to World Musics, American Popular Music, Fundamentals of Music (Theory), Class Voice, Beginning and Intermediate Guitar, and Beginning and Intermediate Piano.

Private music lessons are also offered to the non-music major under the following conditions:

1. A successful audition placement into a recognized Music major ensemble.
2. Successful audition placement will allow concurrent registration into an appropriate private performance lesson.

3. Consent of instructor and availability of instructional time.
4. For further information contact the Department of Music at (414) 229-5217.

Admission, Audition, and Scholarship Procedures

Throughout the year, the Music Department schedules new student audition days. In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in Mus Ed 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete Music 1 (Theory Fundamentals) and/or MusPerf 1 (Piano Fundamentals) in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

Provisional. Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation. A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted. Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition. Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

Transfer students. All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Scholarship. If you wish to be considered for a Music scholarship, you are encouraged to audition no later than March of the school year preceding your intended matriculation. Lists of suggested repertoire, which can serve as a helpful guideline for your audition, can be obtained from the Peck School of the Arts Department of Music website at: uwm.edu/arts/scholarships/. For additional information, contact the Music Department at (414) 229-5217.

University Competency Requirements. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

Oral and Written Communication (OWC) Competency

OWC Part A: Completion of OWC Part A can be demonstrated by satisfying one of the following options:

- Earning at least three credits with a grade of C or higher in English 102,* or
- Transferring at least three credits with a grade of C or higher in a course equivalent to English 102 or higher level expository writing course,* or
- Achieving an appropriate score on the English Placement Test (EPT).

OWC Part B: The OWC Part B is satisfied by completing Music 310 Introduction to World Musics with a written or oral communication component for students who have completed the Part A requirement.

Quantitative Literacy (QL) Competency.

QL Part A: Completion of QL Part A can be demonstrated by satisfying one of the following options:

- Earning at least three credits with a grade of C or higher in Math 102, 103 (formerly 106), 105, 108, 175, or equivalent courses,* or
- Achieving a placement code of at least 30 on the mathematics placement test.

QL Part B: The QL Part B is satisfied by completing QL-B course Music 225 Materials of Theory III. QL-B courses make significant use of quantitative tools in the context of other course material.

** These courses may not be taken credit/no credit if they are to be used to satisfy the OWC-A requirement or QL-A requirement.*

Foreign Language Requirement. Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:

- Complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or
- Complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or
- Demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental, or other appropriate examination.

Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.

Department of Music Foreign Language Requirements: Minimum of 6 crs. See Individual area requirements:

Winds, Brass, & Percussion; Piano; Strings, Guitar; Composition & Technology; Music Education (0 - 6 cr): May be fulfilled by two consecutive years of a high school instruction or a minimum 6 credits in a language (including American Sign Language) other than English at the college 100 level or above.

Collaborative Piano & Vocal (12 cr): The three-semester foreign language requirement must be fulfilled by the study of 3 different languages at the introductory level. Must include German I, French I, and Italian I.

Voice (16 cr): Two languages required at Level I and Level II chosen between German, French, or Italian.

Music History and Literature (14 cr): Requirements may be fulfilled by a minimum of four semesters of study in a single language, which amounts to 14 credits (4 + 4 + 3 + 3). German is the preferred language but depending on a student's interest, Italian is also accepted. Consult with the History Area.

Music Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement. All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students. Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements. All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of Music 106 Foundations in Music during their freshman year.

All Music majors, except transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements. The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements. The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis.

The Music History core comprises a three-semester sequence of the General History of Western Music.

Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement. Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/.

Music Performance Major (BFA)

A prospective student must demonstrate advanced technical and artistic skills at the admission audition for a performance degree.

Music Course Requirements. 72-80 credits with variable electives. See individual area requirements.

Principal Instrument or Voice. 16 cr Includes four semesters of Music Performance at 300 level (2 cr/sem totaling 8 cr) and four semesters at 400 level (2 cr/sem totaling 8 cr).

Performance Master Class. 0-8 cr Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as Music electives.

Piano Requirement. Based on audition results, students enroll in MusPerf 1, Fundamentals of Piano Levels I & II for up to 2 semesters to attain piano proficiency and/or MusPerf 101 up to 4 semesters depending on your sub-major. MusPerf 1 will not be counted toward degree requirement. See individual Area requirements:

Performance and Academic Area Majors (BFA)

Woodwinds, Brass, Percussion, Guitar, and Strings

- MusPerf 1 Levels I & II only

Voice

- MusPerf 1 Levels I & II and/or
- 2 semesters of 100-level piano

Composition and Technology

- MusPerf 1 Levels I & II and/or
- 4 semesters of 100-level piano or 2 semesters of 200-level piano

Music History & Literature

- MusPerf 1 Levels I & II and/or
- 2 semesters of 100-level piano

Music Education; Instrumental/General

- MusPerf 1 Levels I & II and/or
- Mus Ed 331, Keyboard Skills for Music Educators I

Music Education; Choral/General

- MusPerf 1 Levels I & II and/or
- 2 semesters of 100-level piano
- Mus Ed 331, Keyboard Skills for Music Educators I
- Mus Ed 332, Keyboard Skills for Music Educators II

Â Music Education; General

- MusPerf 1 Levels I & II and/or
- 2 semesters of 100-level piano
- Mus Ed 331, Keyboard Skills for Music Educators I

Music Majors (BA)

- MusPerf 1 Levels I & II only

Musical Theatre Majors (BFA) See Department of Theatre for additional program requirements.
uwm.edu/arts/theatre/

- MusPerf 1, Level I & II and/or
- 2 semesters of 100-level piano

Major Ensemble. 6-8 cr (1 cr per sem) Students taking individual lessons must concurrently be enrolled in an approved Performance Ensemble. See Performance Ensemble requirements.

Chamber Ensemble. 3-6 cr Applies to Instrumental Curriculum only.

Music Theory and History. 30-47 cr See individual area requirements or electives.

Conducting. 2-4 cr See individual area requirements or electives.

Junior Recital. 0 cr Supervised preparation toward full or one-half junior recital. See individual area requirements.

Senior Recital. 0-2 cr Supervised preparation toward required full senior recital.

Foundations of Music, Music 106, one semester taken during freshman year and **Music Convocation, Music 107**, 5 semesters. See Recital and Music Convocation Requirements.

0 Credit Courses: A one-credit fee will be assessed by the University if course load is less than 12 credits or greater than 18.

Electives. 0-9 cr See individual area requirements or electives.

Music Performance Curriculum. Recommended curricular order.

WINDS, BRASS, AND PERCUSSION

Freshman Year – Semester I

		Cr
MusPerf 3xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
MusPerf 1 ¹	Fundamentals of Piano Level I (not counted toward degree)	(1)
Music 30, 40, 42, 182	Band or Orchestra	1

Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ²	Foundations of Music	0
Electives or Core Curriculum		8
Total		15
Freshman Year – Semester II		Cr
MusPerf 3xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
MusPerf 1 ¹	Fundamentals of Piano Level II (not counted toward degree)	(1)
Music 30, 40, 42, 182	Band or Orchestra	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		8
Total		16
Sophomore Year – Semester I		Cr
MusPerf 3xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 30, 40, 42, 182	Band or Orchestra	1
Music 225 ¹⁰	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 211	General History of Western Music I	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		5
Total		16
Sophomore Year – Semester II		Cr
MusPerf 3xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 30, 40, 42, 182	Band or Orchestra	1
Music 230	Form Analysis	3
Music 212	General History of Western Music II	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		7
Total		17
Junior Year – Semester I		Cr
MusPerf 4xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 30, 40, 42, 182	Band or Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Music 307	General History of Western Music III	3
Music 321	Counterpoint	3
Music 353	Conducting	2
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		4
Total		17
Junior Year – Semester II		Cr
MusPerf 4xx	Lessons in Principal Instrument	2

MusPerf 5xx	Performance Master Class	1
Music 30, 40, 42, 182	Band or Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Music 659	Junior Recital	0
Music 354	Instrumental Conducting	2
Choose one Music	History elective:	3
Music 308	Selected Topics in Music History and Literature: (subtitle)	
Music 311	Music of the Baroque Era	
Music 312	Music of the Classic Era	
Music 313	Music of the Romantic Era	
Music 314	Music Since 1900	
Music 611	Music of the Medieval Era	
Music 612	Music of the Renaissance and Early Modern Era	
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		7
Total		17
Senior Year – Semester I		Cr
MusPerf 4xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 30, 40, 42, 182	Band or Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Electives or Core Curriculum		11
Total		16
Senior Year – Semester II		Cr
MusPerf 4xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 30, 40, 42, 182	Band or Orchestra	1
Music 660	Senior Recital	2
Choose one Music	Theory elective:	3
Music 323	Instrumental and Choral Orchestration	
OR		
Music 421	Materials of Contemporary Music	
Electives or Core Curriculum		7
Total		16

PRINCIPLE INSTRUMENT: STRINGS

Freshman Year – Semester I		Cr
MusPerf 3xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
MusPerf 1 ¹	Fundamentals in Piano Level I (does not count toward degree)	(1)
Music 182	Symphony Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Music 123	Aural Theory I	1

Music 127	Materials of Theory I	2
Music 106 ²	Foundations of Music	0
Electives or Core Curriculum		9
Total		17
Freshman Year – Semester II		Cr
MusPerf 3xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
MusPerf 1 ¹	Lessons in Piano Level II (does not count toward degree)	(1)
Music 182	Symphony Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		8
Total		17
Sophomore Year – Semester I		Cr
MusPerf 3xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 182	Symphony Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Music 225 ¹⁰	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 211	General History of Western Music I	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		6
Total		18
Sophomore Year – Semester II		Cr
MusPerf 3xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 182	Symphony Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Music 230	Form Analysis	3
Music 212	General History of Western Music II	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		6
Total		17
Junior Year – Semester I		Cr
MusPerf 4xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 182	Symphony Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Music 307	General History of Western Music III	3
Choose one Music Theory elective:		3
Music 220	Introduction to Computers and Music	
Music 321	Counterpoint	
Music 323	Instrumental and Choral Orchestration	
Music 327	Analog and Digital Synthesis I	
Music 328	Digital Synthesis and Systems II	

Music 420	Advanced Computing and Music	
Music 421	Materials of Contemporary Music	
Music 680	Special Studies in Music Theory: (subtitle)	
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		5
Total		16

Junior Year – Semester II **Cr**

MusPerf 4xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 182	Symphony Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Music 659	Junior Recital	0
Choose one Music History elective:		3
Music 308	Selected Topics in Music History and Literature: (subtitle)	
Music 311	Music of the Baroque Era	
Music 312	Music of the Classic Era	
Music 313	Music of the Romantic Era	
Music 314	Music Since 1900	
Music 611	Music of the Medieval Era	
Music 612	Music of the Renaissance and Early Modern Era	
Music 107 ²	Music Convocation	0
Choose one Music elective:		3
Music 353	Conducting	
Music 447	String Pedagogy	
Music 561	Advanced Ensemble	
Electives or Core Curriculum		5
Total		16

Senior Year – Semester I **Cr**

MusPerf 4xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 182	Symphony Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Electives or Core Curriculum		11
Total		14

Senior Year – Semester II **Cr**

MusPerf 4xx	Lessons in Principal Instrument	2
MusPerf 5xx	Performance Master Class	1
Music 182	Symphony Orchestra	1
Music 361-370, 561	Chamber Ensemble	1
Music 660	Senior Recital	2
Electives or Core Curriculum		8
Total		14

PRINCIPLE INSTRUMENT: PIANO

Freshman Year – Semester I **Cr**

MusPerf 3xx	Lessons in Piano	2
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MusPerf 5xx	Performance Master Class	1
Performance Ensemble ⁵	Choral Ensemble	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ²	Foundations of Music	0
Electives or Core Curriculum		9
Total		16
Freshman Year – Semester II		Cr
MusPerf 3xx	Lessons in Piano	2
MusPerf 5xx	Performance Master Class	1
Performance Ensemble	Choral Ensemble	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		8
Total		16
Sophomore Year – Semester I		Cr
MusPerf 3xx	Lessons in Piano	2
MusPerf 5xx	Performance Master Class	1
Performance Ensemble	Any ensemble with piano instructor consent	1
Music 225 ¹⁰	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 211	General History of Western Music I	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		6
Total		17
Sophomore Year – Semester II		Cr
MusPerf 3xx	Lessons in Piano	2
MusPerf 5xx	Performance Master Class	1
Performance Ensemble	Any ensemble with piano instructor consent	1
Music 230	Form Analysis	3
Music 212	General History of Western Music II	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		6
Total		16
Junior Year – Semester I		Cr
MusPerf 4xx	Lessons in Piano	2
MusPerf 5xx	Performance Master Class	1
Performance Ensemble	Any ensemble with piano instructor consent	1
Music 259	Accompanying	2
Music 275	Keyboard Performance Repertoire I	2
Music 307	General History of Western Music III	3
Music 107 ²	Music Convocation	0
Music 353	Conducting	2
Electives or Core Curriculum		5
Total		18
Junior Year – Semester II		Cr
MusPerf 4xx	Lessons in Piano	2
MusPerf 5xx	Performance Master Class	1
Performance Ensemble	Any ensemble with piano instructor consent	1
Music 276	Keyboard Performance Repertoire II	2

Music 323	Â Instrumental and Choral Orchestration	3
Music 659	Junior Recital	0
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		8
Total		17
Senior Year – Semester I		Cr
MusPerf 4xx	Lessons in Piano	2
MusPerf 5xx	Â Performance Master Class	1
Music 259	Accompanying	2
Choose one Music History elective:		3
Music 308	Selected Topics in Music History and Literature: (subtitle)	
Music 311	Music of the Baroque Era	
Music 313	Music of the Classical Era	
Music 314	Music Since 1900	
Electives or Core Curriculum		7
Total		15
Senior Year – Semester II		Cr
MusPerf 4xx	Lessons in Piano	2
MusPerf 5xx	Performance Master Class	1
Music 448	Piano Pedagogy	2
Music 421	Materials of Contemporary Music	3
Music 660	Senior Recital	2
Electives or Core Curriculum		5
Total		15

PRINCIPLE INSTRUMENT: COLLABORATIVE PIANO-VOCAL⁷

Freshman Year – Semester I		Cr
MusPerf 304	Lessons in Collaborative Piano-Vocal	2
MusPerf 101	Lessons in Piano (technique)	1
MusPerf 511	Performance Master Class ⁸	1
Music 44, 50, 52, or 56	Choir	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ²	Foundations of Music	0
Electives or Core Curriculum		8
Total		16
Freshman Year – Semester II		Cr
MusPerf 304	Collaborative Piano-Vocal	2
MusPerf 511	Performance Master Class ⁸	1
MusPerf 101	Lessons in Piano (technique)	1
Music 44, 50, 52, or 56	Choir	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		7
Total		16
Sophomore Year – Semester I		Cr
MusPerf 304	Lessons in Collaborative Piano-Vocal	2
MusPerf 511		1

	Performance Master Class	
MusPerf 101	Lessons in Piano (technique)	1
Music 44, 50, 52, or 56	Choir	1
Music 245	Basic and Italian Lyric Diction (even Academic Years)	1
Music 225 ¹⁰	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 211	General History of Western Music I	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		4
Total		17
Sophomore Year – Semester II		Cr
MusPerf 304	Lessons in Collaborative Piano-Vocal	2
MusPerf 101	Lessons in Piano (technique)	1
MusPerf 511	Performance Master Class ⁸	1
Music 44, 50, 52, or 56	Choir	1
Music 246	German and French Lyric Diction (even Academic Years)	1
Music 230	Form Analysis	3
Music 212	General History of Western Music II	3
Music 107 ²	Music Convocation	0
German 101 ³	First Semester German	4
Total		16
Junior Year – Semester I		Cr
MusPerf 404	Lessons in Collaborative Piano-Vocal	2
MusPerf 511	Performance Master Class ⁸	1
Music 457	Opera Theatre	1
Music 307	General History of Western Music III	3
Music 377	Song Literature I: Italy, Germany, France, Great Britain (even Academic Years)	2
Music 321	Counterpoint	3
Music 107 ²	Music Convocation	0
Italian 101 ³	First Semester Italian	4
Total		16
Junior Year – Semester II		Cr
MusPerf 404	Lessons in Collaborative Piano-Vocal	2
MusPerf 511	Performance Master Class ⁸	1
Music 457	Opera Theatre	1
Music 659	Junior Recital	0
Choose one Music History elective:		3
Music 308	Selected Topics in Music History and Literature: (subtitle)	
Music 311	Music of the Baroque Era	
Music 312	Music of the Classic Era	
Music 313	Music of the Romantic Era	
Music 314	Music Since 1900	
Music 611	Music of Medieval Era	
Music 612	Music of the Renaissance and Early Modern Era	
Music 378	Song Literature II: United States and Select European Countries (even Academic Years)	2
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		3
French 101 ³	First Semester French	4
Total		16

Senior Year – Semester I		Cr
MusPerf 404	Lessons in Collaborative Piano-Vocal	2
MusPerf 111	Lessons in Voice	1
MusPerf 511	Performance Master Class ⁸	1
Music 457	Opera Theatre	1
Music 353	Conducting	2
Music 310 ⁹	Introduction to World Musics	3
Electives or Core Curriculum		7
Total		17
Senior Year – Semester II		Cr
MusPerf 404	Lessons in Collaborative Piano-Vocal	2
Music 660	Senior Recital	2
MusPerf 111	Lessons in Voice	1
MusPerf 511	Performance Master Class ⁸	1
Choose one Music Theory elective:		3
Music 220	Introduction to Computers and Music	
Music 323	Instrumental and Choral Orchestration	
Music 327	Analog and Digital Synthesis I	
Music 328	Digital Synthesis and Systems II	
Music 421	Materials of Contemporary Music	
Music 457	Opera Theatre	1
Electives or Core Curriculum		6
Total		16

PRINCIPLE INSTRUMENT: VOICE

Freshman Year – Semester I		Cr
MusPerf 311	Lessons in Voice	2
MusPerf 511	Performance Master Class ⁸	1
MusPerf 1 or 101 ⁶	Lessons in Piano	1
Music 44, 50, 52, or 56	Choir	1
Music 245	Basic and Italian Lyric Diction (even Academic Years)	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ²	Foundations of Music	0
Theatre 101	Acting for the non-Major	3
Electives or Core Curriculum		4
Total		16
Freshman Year – Semester II		Cr
MusPerf 311	Lessons in Voice	2
MusPerf 511	Performance Master Class ⁸	1
MusPerf 1 or 101 ⁶	Lessons in Piano	1
Music 44, 50, 52, or 56	Choir	1
Music 246	German and French Lyric Diction (even Academic years)	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3

Music 107 ²	Music Convocation	0
	Electives or Core Curriculum	5
	Total	15
	Sophomore Year – Semester I	Cr
MusPerf 311	Lessons in Voice	2
MusPerf 511	Performance Master Class ⁸	1
MusPerf 101 ⁶	Lessons in Piano	1
Music 44, 52, or 56	Choir	1
Music 211	General History of Western Music I	3
Music 225 ¹⁰	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 107 ²	Music Convocation	0
	French, German, Italian Level I	4
	Total	16
	Sophomore Year – Semester II	Cr
MusPerf 311	Lessons in Voice	2
MusPerf 511	Performance Master Class ⁸	1
MusPerf 101 ⁶	Lessons in Piano	1
Music 44, 52, or 56	Choir	1
Music 212	General History of Western Music II	3
Music 230	Form Analysis	3
Music 107 ²	Music Convocation	0
	French, German, or Italian Level I or Level II	4
	Electives or Core Curriculum	2
	Total	17
	Junior Year – Semester I	Cr
MusPerf 411	Lessons in Voice	2
MusPerf 511	Performance Master Class ⁸	1
Music 44, 52, or 56	Choir	1
Music 307	General History of Western Music III	3
Music 310 ⁹	Introduction to World Musics	3
Music 353	Conducting	2
Music 377	Song Literature I: Italy, Germany, France, Great Britain (even Academic Years)	2
Music 107 ²	Music Convocation	0
	French, German, or Italian Level I	4
	Total	18
	Junior Year – Semester II	Cr
MusPerf 411	Lessons in Voice	2
MusPerf 511	Performance Master Class ⁸	1
Music 44, 52, or 56	Choir	1
Dance 321	Alexander Technique	3
Music 378	Song Literature II: United States and Select European Countries (even Academic Years)	2
Music 457	Opera Theatre	3
Music 659	Junior Recital (optional)	0
Music 107 ²	Music Convocation	0
	French, German, or Italian Level I or Level II	4
	Electives or Core Curriculum	2
	Total	18
	Senior Year – Semester I	Cr

MusPerf 411	Lessons in Voice	2
MusPerf 511	Performance Master Class ⁸	1
Music 44, 52, or 56	Choir	1
Music 445	Vocal Pedagogy I (odd Academic Years)	2
Music 107 ²	Music Convocation	0
Choose one Music Theory Elective:		3
Music 220	Introduction to Computers and Music	
Music 321	Counterpoint	
Music 327	Analog and Digital Synthesis I	
Music 328	Digital Synthesis and Systems II	
Music 421	Materials of Contemporary Music (recommended)	
Music 680	Special Studies in Music: (subtitle)	
Electives or Core Curriculum		6
Total		15
Senior Year – Semester II		Cr
MusPerf 411	Lessons in Voice	2
MusPerf 511	Performance Master Class ⁸	1
Music 44, 52, or 56	Choir	1
Choose one:		2
Music 457	Opera Theatre	
OR		
Music 446	Vocal Pedagogy II (odd Academic Years)	
Music 660	Senior Recital	2
Electives or Core Curriculum		7
Total		15

PRINCIPLE INSTRUMENT: GUITAR

Freshman Year – Semester I		Cr
MusPerf 3xx (346, 347, or 348)	Lessons in Guitar (Classical, Finger-Style, or Jazz,)	2
MusPerf 546	Guitar Master Class ⁸	1
MusPerf 11	Lessons in Piano Level I (not counted toward degree)	(1)
Music 44, 50, 52, 56	University Choirs	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 248	Sight Reading for Guitar I	1
Music 106 ²	Foundations of Music	0
Electives or Core Curriculum		8
Total		16
Freshman Year – Semester II		Cr
MusPerf 3xx (346, 347, or 348)	Lessons in Guitar (Classical, Finger-Style, or Jazz,)	2
MusPerf 546	Guitar Master Class ⁸	1
MusPerf 11	Lessons in Piano Level II (not counted toward degree)	(1)
Music 44, 50, 52, 56	University Choirs	1
Music 124	Aural Theory II	1

Music 128	Materials of Theory II	3
Music 242	Fretboard Essentials	2
Music 348	Sight Reading for Guitar II	1
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		5
Total		16

Sophomore Year – Semester I

Cr

MusPerf 3xx (346, Lessons in Guitar (Classical, Finger-Style, or Jazz) 347, or 348)		2
MusPerf 546	Guitar Master Class ⁸	1
Music 274	Guitar Repertoire and Ensemble (Classical, Finger-Style majors only)	1

OR

Music 402	Jazz Combo (Jazz Guitar majors only)	1
Music 211	General History of Western Music I	3
Music 225 ¹⁰	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		6
Total		17

Sophomore Year – Semester II

Cr

MusPerf 3xx (346, Lessons in Guitar (Classical, Finger-Style, or Jazz) 347, or 348)		2
MusPerf 546	Guitar Master Class ⁸	1
Music 274	Guitar Repertoire and Ensemble (Classical, Finger-Style majors only)	1

OR

Music 402	Jazz Combo (Jazz Guitar majors only)	1
Music 212	General History of Western Music II	3
Music 230	Form Analysis	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		7
Total		17

Junior Year – Semester I

Cr

MusPerf 4xx (446, Lessons in Guitar (Classical, Finger-Style, or Jazz) 447, or 448)		2
MusPerf 546	Guitar Master Class ⁸	1
Music 274	Guitar Repertoire and Ensemble (Classical, Finger-Style majors only)	1

OR

Music 402	Jazz Combo (Jazz Guitar majors only)	1
Music 307	General History of Western Music III	3
Choose one Guitar History Course:		3
Music 349	History of Classical Guitar	

OR

Music 478	Finger-Style Guitar: History and Performance	
Electives or Core Curriculum		6
Music 107 ²	Music Convocation	0
Total		16

Junior Year – Semester II

Cr

MusPerf 4xx (446, Lessons in Guitar (Classical, Finger-Style, or Jazz) 447, or 448)		2
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MusPerf 546	Guitar Master Class ⁸	1
Music 274	Guitar Repertoire and Ensemble (Classical, Finger-Style majors only)	1
OR		
Music 402	Jazz Combo (Jazz Guitar majors only)	1
MUS ED 385	Guitar Pedagogy	2
Music 421	Materials of Contemporary Music	3
Music 659	Junior Recital	0
Choose one Music History course:		2-3
Music 308	Selected Topics in History and Literature	
Music 309	American Folk and Popular Music	
Music 311	Music of the Baroque Era	
Music 312	Music of the Classic Era	
Music 313	Music of the Romantic Era	
Music 314	Music Since 1900	
Music 611	Music of the Medieval Era	
Music 612	Music of the Renaissance and Early Modern Era	
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		4-5
Total		16-17
Senior Year – Semester I		Cr
MusPerf 4xx (446, Lessons in Guitar (Classical, Finger-Style, or Jazz) 447, or 448)		2
MusPerf 546	Guitar Master Class ⁸	1
Music 274	Guitar Repertoire and Ensemble (Classical, Finger-Style majors only)	1
OR		
Music 402	Jazz Combo (Jazz Guitar majors only)	1
Music 489	Guitar Technique	1
Music 353	Conducting	2
Choose one Music Theory elective:		3
Music 220	Introduction to Computers and Music	
Music 321	Counterpoint	
Music 323	Instrumental and Choral Orchestration	
Music 327	Analog and Digital Synthesis I	
Music 328	Digital Synthesis and Systems II	
Music 680	Special Studies in Music: (subtitle)	
Electives or Core Curriculum		6
Total		16
Senior Year – Semester II		Cr
MusPerf 4xx (446, Lessons in Guitar (Classical, Finger-Style, or Jazz) 447, or 448)		2
MusPerf 546	Guitar Master Class ⁸	1
Music 274	Guitar Repertoire and Ensemble (Classical, Finger-Style majors only)	1
OR		
Music 402	Jazz Combo (Jazz Guitar majors only)	1
Music 310 ⁹	Introduction to World Musics	3
Music 660	Senior Recital	2
Electives or Core Curriculum		6
Total		15

Footnotes for Music Performance Degree Programs

¹ **Piano Requirement.** Depending upon audition results, students may enroll in MusPerf 1, Fundamentals of Piano for up to two semesters or until they can pass a satisfactory piano audition through the piano faculty. Credit toward degree will not be counted.

² **Foundations of Music, Music 106 and Music Convocation, Music 107** credit does not count toward overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 credits.

³ **Foreign Language & Piano.** The three-semester foreign language requirement must be fulfilled by the study of 3 different languages at the introductory level. Must include German I, French I, and Italian.

⁴ **Organ.** Check with department for availability.

⁵ **Performance Requirement.** Piano majors are required to enroll in a minimum of six semesters of ensemble with a minimum of two semesters in a choral ensemble and four semesters in any ensemble with piano or organ instructor consent.

⁶ **Voice.** Depending upon audition results, students may be required to enroll in MusPerf 1, Fundamentals of Piano for up to two semesters or until they can pass a satisfactory piano audition through the Piano faculty. Credit toward degree will not be counted. Students must take two semesters of MusPerf Piano at 101 level.

⁷ **Collaborative Piano-Vocal and Piano Pedagogy.** Once accepted into this program, students become pre-majors until they successfully complete the first two years of required courses for the Collaborative Piano-Vocal track, and maintain a 3.00 GPA in those courses. At that point, their academic and artistic growth is reviewed for official entry into the track by the program faculty. The jury at the end of the fourth semester of study will determine whether the student meets the artistic standard necessary to officially enter either the Collaborative Piano-Vocal Program or Piano Performance program. The Piano Faculty will listen to the jury and determine a letter grade based on the performance. The student must receive an average grade of B to continue in the program.

⁸ **Performance Master Class.** Eight semesters at 1 credit is required as part of your individual lesson obligation.

⁹ **Music 310,** Introduction to World Musics fulfills the OWC-B requirement.

¹⁰ **Music 225,** Theory and Materials III fulfills the QL-B requirement.

¹¹ **Foreign Language Voice.** Two languages required at Level I and Level II chosen between German, French, or Italian.

Music History and Literature

Required Music Courses.

Music Performance Courses. 8 cr Students must take eight semesters on their Principal Instrument at the 200 level. Students must take a minimum of two semesters of piano at the 100 level.

Performance Master Class. Up to 8 semesters at 1 cr per semester is required as part of a student's lesson obligation.

Piano. 0-2 cr Depending upon audition results, students may be required to enroll in MusPerf 1, Fundamentals of Piano, for up to two semesters or until they can pass a satisfactory piano audition through the Piano faculty. Credit toward the degree will not be counted. Students must take two semesters of MusPerf Piano at the 101 level.

Performance Requirement. 8 cr Four credits in an approved Performance Ensemble and four credits of Collegium Musicum. See Music, Performance Ensemble requirement.

Music Theory and History. 47 cr

Foundations of Music, Music 106 and **Music Convocation**, Music 107 credit does not count toward overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 credits.

Foreign Language. 14 cr Requirements may be fulfilled by a minimum of four semesters of study in a single language, which amounts to 14 credits (4 + 4 + 3 + 3). German is the preferred language, but depending on a student's interest, Italian is also accepted. Consult with the History Area.

Electives in Related Fields. 7-9 crs Three credits must be taken in an appropriate English composition course beyond the core requirement. For other permissible choices, see area advisor or Music Department.

Music History and Literature Curriculum. Recommended curricular order.

Freshman Year – Semester I **Cr**

MusPerf 1 or 101 ¹	Lessons in Piano	1
MusPerf 2xx ²	Lessons in Principal Instrument	1
MusPerf 5xx	Performance Master Class ⁷	1
Music xxx3	Performance Ensemble	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ⁴	Foundations of Music	0
Hist 101	History of Western Civilization I	3
Electives or Core Curriculum		5
Total		15

Freshman Year – Semester II **Cr**

MusPerf 1 or 101 ¹	Lessons in Piano	1
MusPerf 2xx ²	Lessons in Principal Instrument	1
MusPerf 5xx	Performance Master Class ⁷	1
Music xxx3	Performance Ensemble	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ⁴	Music Convocation	0
Hist 102	History of Western Civilization II	3
Electives or Core Curriculum		6
Total		16

Sophomore Year – Semester I **Cr**

MusPerf 2xx ²	Lessons in Principal Instrument	1
MusPerf 5xx	Performance Master Class ⁷	1
Music xxx ³	Performance Ensemble	1
Music 211	General History of Western Music I	3
Music 225	Materials of Theory III	3
Music 226 ⁵	Aural Theory III	1
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		5
Total		15

Sophomore Year – Semester II **Cr**

2	Lessons in Principal Instrument	1
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MusPerf 2xx		
MusPerf 5xx	Performance Master Class ⁷	1
Music xxx ³	Performance Ensemble	1
Music 212	General History of Western Music II	3
Music 230	Form Analysis	3
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		8
Total		17

Junior Year – Semester I **Cr**

MusPerf 2xx ²	Lessons in Principal Instrument	1
MusPerf 5xx	Performance Master Class ⁷	1
Music 307	General History of Western Music III	3
Music 310 ⁶	Introduction to World Musics	3
Music 321	Counterpoint	3
Music 452 ³	Collegium Musicum	1
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		5
Total		17

Junior Year – Semester II **Cr**

MusPerf 2xx ²	Lessons in Principal Instrument	1
MusPerf 5xx	Performance Master Class ⁷	1
Music 450	Introduction to Musicology	3
Choose one Music History elective:		3
Music 102	American Popular Music	
Music 311	Music of the Baroque Era	
Music 312	Music of the Classic Era	
Music 313	Music of the Romantic Era	
Music 314	Music since 1900	
Music 317	Introduction to American Music	
Music 401	Folk Music in Contemporary Culture	
Music 410	Topics in World Music	
Music 449	Women in Music	
Music 611	Music of the Medieval Era	
Music 612	Music of the Renaissance and Early Modern Era	
Music 680	Special Studies in Music: Variable Topic	
Music 452 ³	Collegium Musicum	1
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		8
Total		17

Senior Year – Semester I **Cr**

MusPerf 2xx ²	Lessons in Principal Instrument	1
MusPerf 5xx	Performance Master Class ⁷	1
MUSIC 308	Selected Topics in Music History: (subtitle)	3
Chose one Music History elective:		3
Music 102	American Popular Music	
Music 311	Music of the Baroque Era	
Music 312	Music of the Classic Era	
Music 313	Music of the Romantic Era	
Music 314	Music since 1900	
Music 317	Introduction to American Music	
Music 401	Folk Music in Contemporary Culture	

Music 410	Topics in World Music	
Music 449	Women in Music	
Music 611	Music of the Medieval Era	
Music 612	Music of the Renaissance and Early Modern Era	
Music 680	Special Studies in Music: Variable Topic	
Music 452 ⁴	Collegium Musicum	1
Electives or Core Curriculum, or related fields		8
Total		17
Senior Year – Semester II		Cr
MusPerf 2xx ²	Lessons in Principal Instrument	1
MusPerf 5xx	Performance Master Class ⁷	1
Chose two Music History electives:		6
Music 102	American Popular Music	
Music 311	Music of the Baroque Era	
Music 312	Music of the Classic Era	
Music 313	Music of the Romantic Era	
Music 314	Music since 1900	
Music 317	Introduction to American Music	
Music 401	Folk Music in Contemporary Culture	
Music 410	Topics in World Music	
Music 449	Women in Music	
Music 611	Music of the Medieval Era	
Music 612	Music of the Renaissance and Early Modern Era	
Music 680	Special Studies in Music: Variable Topic	
Music 452 ⁴	Collegium Musicum	1
Electives or Core Curriculum, or related fields		7
Total		16

Footnotes for preceding program.

¹ **Piano Requirement.** Depending upon audition results, students may be required to enroll in MusPerf 1, Fundamentals of Piano for up to two semesters or until they can pass a satisfactory piano audition through the Piano faculty. Credit toward the degree will not be counted. Students must take two semesters of MusPerf Piano at the 101 level.

² **Principal Instrument.** Students with piano as their Principal Instrument must take eight semesters at the 200 level. Students with Principal Instrument other than piano, must take two semesters of piano at the 100 level and six semesters at the 200 level on their Principal Instrument.

³ **Performing Ensemble.** Four semesters in approved Performance Ensemble and four credits of Collegium Musicum. See Music, Performance Ensemble requirement.

⁴ **Foundations of Music**, Music 106 and **Music Convocation**, Music 107: Credit does not count toward overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 credits.

⁵ **Music 225**, Theory and Materials III fulfills the QL-B requirement.

⁶ **Music 310**, Introduction to World Musics fulfills the OWC-B requirement.

⁷ **Performance Master Class. 8 cr** Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class.

Music Composition and Technology

Required Composition and Theory Background. All potential Composition majors must show evidence of compositional ability before acceptance to the program. Indicating intent on the Music Department audition form does not automatically place the student into the program. Each applicant must submit a Composition Portfolio (see below) of his/her previous compositional work to the Composition faculty. The portfolio acts as the equivalent of an audition. Prospective students seeking to enter this program must also be able to begin at the Music 123 and 127 level as determined by the Theory Placement Exam. Those students who do not meet this criterion may be advised to enter the program on a Provisional basis, but must take Music 1, Theory Fundamentals, receive a final grade of B or better, and resubmit his/her Composition Portfolio before a final admission and placement decision is determined by the Music Composition Area.

Required Application Portfolio. The Composition Portfolio should contain the applicant's best three to five representative works. At least one copy of a written score is required. The score may be of any ensemble configuration, from large ensemble to piano solo. Computer-generated scores, or digital software compositions are accepted but not required. Evidence of audio recordings in an appropriate digital audio format, fixed media, web-based, or comparable format is expected. The compositions on the recordings may or may not be the same compositional scores submitted with your portfolio. Other possible formats for compositions are Standard MIDI File, an image file or movie of a composition's performance, or sound track to a video work. This latter may be a collaborative work with video artist(s). Group compositions are not acceptable. There is no particular style requirement for applicants, nor is there a duration requirement for his/her representative works. However, they must be complete works.

Required Piano Proficiency. Depending upon audition results, students may be required to enroll in MusPerf 1, Fundamentals of Piano, for up to two semesters or until they can pass a satisfactory piano audition through the Piano faculty. Those placed at the 100 level must take a minimum of four semesters of piano. All students entering at the 200 level must take two semesters of piano. Piano proficiency at the 200 level is satisfied by demonstrated ability to play works of moderate difficulty, such as Bach's Two-part Inventions, Bartok's Mikrokosmos Book IV, Schumann's "Kinderszenen," or Easy to Intermediate Classics. Deficiencies are made up without credit.

A student who is deficient in any of the above may be admitted provisionally, but only after evaluation and approval by the Composition Area. Contact the Composition Area for further information.

Graduation Requirements. Completion of the BFA in Music Composition and Technology will require each student to compose a minimum of five compositions over the lifetime of their program. While a minimum of three works must be written for solo or small ensemble, and one work for solo electronic or combined electronic and acoustic instrument(s), one work may be for large ensemble (orchestra, chamber, wind symphony, or choir). Of the five works required, three works must be presented publicly, each a minimum of nine minutes in duration.

Senior Recital or Thesis Requirement. In the semester the student intends to graduate, he/she must either register for Senior Recital or Senior Thesis. Registering for Senior Recital stipulates a public recital of the student's compositions lasting a minimum of one hour in duration. Registering for Senior Thesis requires the student to submit the following to the Composition Faculty: a final composition portfolio, which consists of the five required compositions, along with recordings (as available). Additionally, printed programs representing the public presentation of three works are required.

Peck School of the Arts Requirements. Music Composition and Technology majors must take a minimum of 3 credits in Film and 3 credits in Art when fulfilling their 12 credits in the Peck School of the Arts, outside of Music. Suggested courses are "Special Topics: Web or Multimedia" courses or subtitled workshops in the digital arts on the department level.

Foreign Language. 0 - 6 cr May be fulfilled by two consecutive years of a high school instruction or a minimum 6 credits in a language (including American Sign Language) other than English at the college 100 level or above.

Performance Ensemble Requirements. A minimum of 7 credits of any approved Music ensemble with a minimum of 2 credits in a combination of either the University Choir or Concert Chorale plus a minimum of 3 credits in a combination of either Contemporary Music Ensemble. Additional credits may be taken and/or serve as electives in an Improvisational, Jazz Ensemble, Percussion Ensemble, Collegium Musicum, or Guitar Ensemble.

Required Music Courses

Music Performance Courses. 7 cr See Performance Ensemble Requirements.

Piano. 4 cr See Required Piano Proficiency.

Music Theory. 23 cr

Music Technology. 12 cr

Composition. 12 cr

Music History. 14 cr

Conducting. 2 cr

Composition Colloquium. 8 sem See Composition Colloquium1, 0 cr

Senior Thesis or Senior Recital. 2 cr

Music or General Electives. 5 cr

Foreign Language. 0-6 cr

Foundations of Music, Music 106 One semester taken during freshman year; and **Music Convocation, Music 107** Five semesters. See Music, Recital and Music Convocation Requirements.

Music Composition and Technology Curriculum. Recommended course order.

Freshman Year – Semester I

	Cr
MusPerf 1 or 101 ¹ Lessons in Piano	1
Music 44, 50, 52, Choir or 56	1
Music 123 Aural Theory I	1
Music 127 Materials of Theory I	2
Music 220 Introduction to Computers and Music	3
MusPerf 361 Lessons in Composition Level I: Introduction to Composition	1
Music 120 ² Composition Colloquium	0
Music 106 ³ Foundations of Music	0
Electives or Core Curriculum	7
Total	16

Freshman Year – Semester II

	Cr
MusPerf 1 or 101 ¹ Lessons in Piano	1
Music 44, 50, 52, Choir or 56	1
Music 124 Aural Theory II	1
Music 128 Materials of Theory II	3
Music 327 Analog and Digital Synthesis I	3
MusPerf 361 Lessons in Composition	1
2 Composition Colloquium	0

Music 120		
Music 107 ³	Music Convocation	0
Electives or Core Curriculum		7
Total		17
Sophomore Year – Semester I		Cr
MusPerf 1011	Lessons in Piano	1
Music 454	Contemporary Music Ensemble	1
Music 225 ⁴	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 328	Digital Synthesis and Systems II	3
Music 211	General History of Western Music I	3
MusPerf 361	Lessons in Composition	1
Music 120 ²	Composition Colloquium	0
Music 107 ³	Music Convocation	0
Electives or Core Curriculum		4
Total		17
Sophomore Year – Semester II		Cr
MusPerf 101 ¹	Lessons in Piano	1
Music 454	Contemporary Music Ensemble	1
Music 230	Form Analysis	3
Music 212	General History of Western Music II	3
MusPerf 361	Lessons in Composition	1
Music 120 ²	Composition Colloquium	0
Music 1073	Music Convocation	0
PSOA Arts	Film, Video, Animation, & New Genres (recommended)	3
Electives		
Electives or Core Curriculum		5
Total		17
Junior Year – Semester I		Cr
Music 454	Contemporary Music Ensemble	1
Music 307	General History of Western Music III	3
Music 321	Counterpoint	3
OR		
Music 421	Materials of Contemporary Music	3
MusPerf 461	Lessons in Composition	2
Music 120 ²	Composition Colloquium	0
Music 107 ³	Music Convocation	0
PSOA Arts Electives, Art & Design, Special Topics: Web or Multimedia		3
Electives or Core Curriculum		5
Total		17
Junior Year – Semester II		Cr
Music 454	Contemporary Music Ensemble	1
Music 323	Instrumental and Choral Orchestration	3
Music 420	Advanced Computing and Music	3
MusPerf 461	Lessons in Composition	2
Music 120 ²	Composition Colloquium	0
Music 107 ³	Music Convocation	0
Electives or Core Curriculum		8
Total		17
Senior Year – Semester I		Cr
Music xxx	Performance Ensemble	1

Music 321	Counterpoint	3
OR		
Music 421	Materials of Contemporary Music	3
Music 353	Conducting	2
MusPerf 461	Lessons in Composition	2
Music 120 ²	Composition Colloquium	0
Electives or Core Curriculum		7
Total		15
Senior Year – Semester II		Cr
Music 3105	Introduction to World Musics	3
MusPerf 461	Lessons in Composition	2
Music 120	Composition Colloquium	0
Music 660	Senior Recital	2
OR		
Music 691	Senior Thesis	2
Electives or Core Curriculum		7
Total		14

Footnotes for preceding program.

¹ **MusPerf 1** or **MusPerf 101**. Based on audition results, students enroll in MusPerf 1 Fundamentals of Piano Levels I & II for up to two semesters or MusPerf 101 for a minimum of four semesters of piano. All students entering at the 200 level must take two semesters of piano.

² **Composition Colloquium**. Required of all composers. A minimum of eight semesters at 0 credits per semester. Credit does not count toward degree. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 credits. May be fulfilled in any semester.

³ **Foundations of Music**, Music 106 and **Music Convocation**, Music 107: Credit does not count toward overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 credits.

⁴ **Music 225**, Theory and Materials III fulfills the QL-B requirement.

⁵ **Music 310**, Introduction to World Musics fulfills the OWC-B requirement.

Bachelor of Arts in Music (BA)

Music Degree Requirements

The BA in Music requires 120 credits, distributed as follows: Music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Music Performance Courses. 8 cr Can be satisfied by six semesters in a single Principal Instrument study at the 200 level and two semesters of Piano at the 100 level. However, additional semesters of Principal Instrument study may be taken as Music electives.

Performance Master Class. 6-8 cr Students enrolled in Music Performance lessons at the 200 level must enroll in the appropriate Performance Master Class.

Performance Ensemble. 8 cr A total of eight semesters of Performance Ensemble are required.

Piano Requirement. Based on audition results, students enroll in MusPerf 1, Fundamentals of Piano Levels I & II for up to two semesters to attain piano proficiency and/or MusPerf 101 up to two semesters if you elect to take piano. MusPerf 1 will not be counted toward degree requirement.

Music Theory. 14-17 cr

Music History and Literature. 9-12 cr

Foundations of Music, Music 106 One semester taken during freshman year, and **Music Convocation,** Music 107 five semesters. See Recital and Music Convocation Requirements.

General Electives. 27 cr

Bachelor of Arts in Music curriculum. Recommended course order.

Freshman Year – Semester I		Cr
MusPerf 1 or 101 ¹	Lessons in Piano	1
or		
MusPerf 2xx	Principal Instrument	1
MusPerf 5xx ⁵	Performance Master Class	1
Music xxx	Performance Ensemble	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ²	Foundations of Music	0
Electives or Core Curriculum		9
Total		15
Freshman Year – Semester II		Cr
MusPerf 1 or 101 ¹	Lessons in Piano	1
or		
MusPerf 2xx	Principal Instrument	1
MusPerf 5xx ⁵	Performance Master Class ^Â	1
Music xxx	Performance Ensemble	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		8
Total		15
Sophomore Year – Semester I		Cr
MusPerf 1 or 101 ¹	Lessons in Piano	1
or		
MusPerf 2xx	Principal Instrument	1
MusPerf 5xx ⁵	Performance Master Class	1
Music xxx	Performance Ensemble	1
Music 225 ³	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 211	General History of Western Music I	3
Music 107 ³	Music Convocation	0
Electives or Core Curriculum		5
Total		15
Sophomore Year – Semester II		Cr
MusPerf 2xx	Principal Instrument	1
MusPerf 5xx ⁵	Performance Master Class	1

Music xxx	Performance Ensemble	1
Music 230	Form Analysis	3
Music 212	General History of Western Music II	3
Music 103	Music Convocation	0
Electives or Core Curriculum		6
Total		15

Junior Year – Semester I **Cr**

MusPerf 2xx	Principal Instrument	1
MusPerf 5xx ⁵	Performance Master Class	1
Music xxx	Performance Ensemble	1
Music 307	General History of Western Music III	3
Chose only one Music History or Music Theory elective in either Junior or Senior year.		3

Music 102	American Popular Music	
Music 308	Selected topics in Music History & Lit. (subtitle)	
Music 311	Music of the Baroque Era	
Music 312	Music of the Classic Era	
Music 313	Music of the Romantic Era	
Music 314	Music since 1900	
Music 220	Introduction to Computers and Music	
Music 321	Counterpoint	
Music 323	Instrumental and Choral Orchestration	
Music 327	Analog and Digital Synthesis	
MusPerf 328	Digital Synthesis and Systems II	
Music 680	Special Studies in Music: Variable Topic	
Music 107 ³	Music Convocation	0
Electives or Core Curriculum		6-9
Total		15

Junior Year – Semester II **Cr**

MusPerf 2xx	Principal Instrument	1
MusPerf 5xx ⁵	Performance Master Class	1
Music xxx	Performance Ensemble	1
Chose only one Music History or Music Theory elective in either Junior or Senior year.		3

Music 102	American Popular Music	
Music 308	Selected topics in Music History & Lit. (subtitle)	
Music 311	Music of the Baroque Era	
Music 312	Music of the Classic Era	
Music 313	Music of the Romantic Era	
Music 314	Music since 1900	
Music 220	Introduction to Computers and Music	
Music 321	Counterpoint	
Music 323	Instrumental and Choral Orchestration	
Music 327	Analog and Digital Synthesis	
MusPerf 328	Digital Synthesis and Systems II	
Music 680	Special Studies in Music: Variable Topic	
Electives or Core Curriculum		9-12
Total		15

Senior Year – Semester I **Cr**

MusPerf 5xx ⁵	Performance Master Class	1
Music xxx	Performance Ensemble	1
Music 310 ⁴	Introduction to World Musics	3
Electives or Core Curriculum		9-12

Total		15
Senior Year – Semester II		Cr
MusPerf 2xx	Principal Instrument	1
MusPerf 5xx ⁵	Performance Master Class	1
Music xxx	Performance Ensemble	1
Electives or Core Curriculum		12
Electives or Core Curriculum		15
Total		15

Footnotes for preceding program.

¹ **Music Performance Courses. 8 cr** Can be satisfied by six semesters in a single Principal Instrument study at the 200 level and two semesters of Piano at the 100 level. However, additional semesters of Principal Instrument study may be taken as Music electives.

² **Foundations of Music**, Music 106 and **Music Convocation**, Music 107 credit does not count toward overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 credits.

³ **Music 225.** Will serve a successful completion for the University QL-B requirement.

⁴ **Music 310.** Will serve as successful completion for the University OWC-B requirement.

⁵ **Performance Master Class. 6-8 cr** Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as Music electives.

Music Education (Bachelor of Fine Arts with Teacher Certification)

A student wishing to enroll in a Music Education course of study must demonstrate high musical skills at the admission auditions. In addition, he or she must possess background experiences with children and a strong desire to help students discover the joys and challenges of music. Five sub-majors are possible: instrumental, instrumental/general music, choral, choral/general music, and general music. Instrumentalists may major in the instrumental, instrumental/general music, or general music programs. Vocalists, pianists, and guitarists should follow the choral, choral/general music, or general music programs. During the first semester of enrollment, the student must schedule an interview with the Music Education advisor.

Human Relations Requirement. See School of Education, Curriculum for Teacher Education Programs.

Certification. The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise Music Early Childhood - Adolescence (EC-A or Wide Range - Birth to Age 21).

A student wishing certification must successfully audition and apply for admission to the Peck School of the Arts. For admission to the Teacher Certification Program, each student must audition in the Education Area at the completion of MUS ED 350 (Introduction to Music Education) taken in the spring semester of the sophomore year. Following admission to the Music Education Program (see admission requirements), and successful completion of the specified Music Education course of studies, a student seeking recommendation for teacher certification must successfully fulfill the following requirements:

1. Fulfill all degree requirements;

2. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities;
3. Meet the test of Basic Skills Requirement; See Peck School of the Arts advisors;
4. Compile at least a 2.75 cumulative GPA;
5. Fulfill the Field Experience Requirement;
6. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements);
7. Pass the Praxis II Music Content Exam;
8. Successfully complete student teaching; and
9. Passing score on the edTPA portfolio submission.

Special Core Curriculum Requirements. The following requirements can be met with courses that apply to the Core Curriculum.

English and Math Proficiency. OWC-A and QL-A must be completed within the first 30 credits in all Music Education programs. See The Arts Core Curriculum for details.

Communication Competency. Students must satisfactorily complete Communication 101 or 103 within the first thirty credits in the Music Education program. The communication abilities of a student remain under constant review as a selective factor for retention in teacher certification programs.

Developmental Reading. Either CurrIns 343 or 545 will fulfill the developmental reading requirement.

Exceptional Education. State law requires 3 credits or the equivalent in study designed to inform the student of the special needs of physically and developmentally handicapped children. This requirement can be met by the completion of ExcEduc 531, 3 credits; ExcEduc 605, 3 credits; or ExcEduc 300, 3 credits; combined with required Music Education courses within the program.

Educational Psychology. Ed Psy 330 fulfills this requirement.

Music Education Core Courses Required of All Music Education Majors. Core 12 cr Student Teaching Mus Ed 477 and 478; Seminar in Student Teaching Mus Ed 479; Intro to Music Education Mus Ed 350; Field Experience Mus Ed 450. Additional method courses are required for specific areas of certification; 2-9 cr See specific program requirements.

Recital Requirement. Music Education students are required to perform a one-half hour recital as part of their Performance Lesson Capstone.

Foreign Language: 0 - 6 cr May be fulfilled by two consecutive years of a high school instruction or a minimum six credits in a language (including American Sign Language) other than English at the college 100 level or above.

Teaching Portfolio. The Music Education Area and the Wisconsin Department of Public Instruction require that students compile a developmental teaching portfolio that demonstrates proficiency in their area of expertise prior to student teaching. The portfolio will be compiled as a part of their major music methods and field experience requirements. Evidence of teaching proficiency may include:

1. Copy of current resume;
2. Lesson plans written and taught in music methods courses and student teaching;
3. Statement of teaching and learning philosophy;
4. Examples of audio and video recordings from student performances as a conductor or performer;
5. Written evaluations from cooperating teachers, university supervising teachers, and methods class instructors; and
6. Artifacts and self-evaluations based upon microteaching and student teaching experiences.
7. The edTPA has been selected by WI Dept. of Public Instruction as the final portfolio for student teaching. The teaching/learning segments for the edTPA evaluation are prepared and taught during the first student teaching placement. The edTPA evaluation must be completed and submitted through an outside evaluation agency at student expense and receive a passing score for licensure. Remediation if necessary of one or more 'edTPA tasks',

should be completed prior to the end of that semester. Handbooks and guidance for this process will be embedded throughout the education certification program with specifically guided instructions during the student teaching placement.

MUSIC EDUCATION - INSTRUMENTAL MUSIC (WIND AND PERCUSSION) EC-A PROGRAM REQUIREMENTS

Music Performance Courses, 7 cr Seven semesters on principal instrument at 200 (or higher) level.

Piano Requirement. Based on audition results, students enroll in MusPerf 1 (Levels I & II) for up to two semesters prior to **MusPerf 101** for two semesters. MusPerf 1 will not be counted toward degree requirement.

Orchestra or Band. 7 cr One credit per semester maximum. For more information, see Performance Ensemble requirement.

Fundamentals of Instruments. 10 cr Student takes every instrument listed except his or her principal performance instrument.

MusPerf 011	Voice	1
MusPerf 21	Flute	1
MusPerf 22	Oboe and Bassoon	1
MusPerf 23	Clarinet	1
MusPerf 24	Saxophone	1
MusPerf 31	Horn	1
MusPerf 32	Trumpet	1
MusPerf 33	Trombone	1
MusPerf 41	Violin	1
MusPerf 51	Percussion	1

Instrumental Music Education. 5 cr Mus Ed 451, 452, and 463 required. Admission into Teacher Certification Program, Peck School of the Arts, required.

Music Theory. 20 cr Core plus Music 323, Instrumental and Choral Orchestration; and Music 421, Materials of Contemporary Music.

Music History. 14 cr Core plus Music 309, American Folk and Popular Music; and Music 310, Introduction to World Musics.

Conducting. 4 cr Music 353 and 354.

Foundations of Music, Music 106 One semester taken during freshman year, and **Music Convocation, Music 107** five semesters. See Recital and Music Convocation Requirements.

MUSIC EDUCATION - INSTRUMENTAL (WIND AND PERCUSSION) EC-A CURRICULUM

Recommended curricular order.

Freshman Year – Semester I		Cr
MusPerf 2xx	Lessons in Principal Instrument	1
MusPerf 101 ¹	Lessons in Piano	1

Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ⁴	Foundations of Music	0
Electives or Core Curriculum		9
Total		15
Freshman Year – Semester II		Cr
MusPerf 2xx	Lessons in Principal Instrument	1
MusPerf 101 ¹	Lessons in Piano	1
MusPerf 011	Fundamentals of Voice	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		9
Total		17
Sophomore Year – Semester I		Cr
MusPerf 2xx	Lessons in Principal Instrument	1
MusPerf 32	Fundamentals of Trumpet	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 211	General History of Western Music I	3
Music 225 ²	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		6
Total		16
Sophomore Year – Semester II		Cr
MusPerf 2xx	Lessons in Principal Instrument	1
MusPerf 21	Fundamentals of Flute	1
MusPerf 24	Fundamentals of Saxophone	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 212	General History of Western Music II	3
Music 230	Form Analysis	3
Music 107 ⁴	Music Convocation	0
Mus Ed 350	Introduction to Music Education	1
Electives or Core Curriculum		6
Total		17
Junior Year – Semester I		Cr
MusPerf 2xx	Lessons in Principal Instrument	1
MusPerf 23	Fundamentals of Clarinet	1
MusPerf 41	Fundamentals of Violin	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 353	Conducting	2
Music 307	General History of Western Music III	3
Music 421	Materials of Contemporary Music	3
Music 107 ⁴	Music Convocation	0
Ed Psy 330	Introduction to Learning and Development	3

ExEduc 300, 531, Exceptional Education or 605		3
Total		18
Junior Year – Semester II		Cr
MusPerf 2xx	Lessons in Principal Instrument	1
MusPerf 31	Fundamentals of French Horn	1
MusPerf 33	Fundamentals of Trombone	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 309	American Folk and Popular Music	2
Music 323	Instrumental and Choral Orchestration	3
Music 354	Instrumental Conducting	2
Mus Ed 450	Field Experience in Music Education	1
Mus Ed 451	Teaching Instrumental Music: Elementary and Middle Levels	2
Mus Ed 452	String Pedagogy	1
Music 107 ⁴	Music Convocation	0
CurrIns 343 or 545 Reading Course		3
Total		18
Senior Year – Semester I		Cr
MusPerf 2xx	Lessons in Principal Instrument	1
MusPerf 22	Fundamentals of Oboe and Bassoon	1
MusPerf 51	Fundamentals of Percussion	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 310 ³	Introduction to World Musics	3
Mus Ed 463	Teaching Instrumental Music: Secondary	2
Music 660	Senior Recital	0
Electives or Core Curriculum		8
Total		17
Senior Year – Semester II		Cr
Mus Ed 477 ⁵	Student Teaching in Music â€™ Elementary Level	4-5
Mus Ed 478 ⁵	Student Teaching in Music â€™ Secondary Level	4-5
Mus Ed 479 ⁵	Seminar in Student Teaching	1
Electives or Core Curriculum		3
Total		13

MUSIC EDUCATION - INSTRUMENTAL MUSIC (STRINGS) EC-A PROGRAM REQUIREMENTS

Music Performance Courses. 7 cr Seven semesters on principal instrument at the 200 (or higher) level.

Piano Requirement. Based on audition results, students enroll in MusPerf 1 (Levels I & II) for up to two semesters prior to **MusPerf 101** for two semesters. MusPerf 1 will not be counted toward degree requirement.

Orchestra. 7 cr One credit per semester maximum. For more information, see Music, Performance Ensemble Requirement.

Fundamentals of Instruments. 10 cr Student takes every instrument listed except his or her principal performance instrument.

MusPerf 21	Flute	1
MusPerf 23	Clarinet	1
MusPerf 32	Trumpet	1
MusPerf 33	Trombone	1
MusPerf 41	Violin	1
MusPerf 42	Viola	1
MusPerf 43	Cello	1
MusPerf 44	Bass	1
MusPerf 51	Percussion	1
MusPerf xx	Fundamentals Elective	1

Instrumental Music Education. 5 cr Mus Ed 451, 452, and 463 required. Admission into Teacher Certification Program, Peck School of the Arts, required.

Music Theory. 20 cr Music 323, Instrumental and Choral Orchestration; and Music 421, Materials of Contemporary Music.

Music History. 14 cr Core plus Music 309, American Folk and Popular Music; and Music 310, Introduction to World Musics.

Conducting. 4 cr Music 353 and 354.

Foundations of Music, Music 106 One semester taken during freshman year, and **Music Convocation**, Music 107 five semesters. See Recital and Music Convocation Requirements.

MUSIC EDUCATION - INSTRUMENTAL MUSIC (STRINGS) EC-A CURRICULUM

Recommended curricular order.

Freshman Year – Semester I		Cr
Musperf 2xx	Lessons in Principal Instrument	1
Musperf 101 ¹	Lessons in Piano	1
Music 182	Symphony Orchestra	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ⁴	Foundations of Music	0
Electives and Core Curriculum		9
Total		15
Freshman Year – Semester II		Cr
Musperf 2xx	Lessons in Principal Instrument	1
Musperf 101 ¹	Fundamentals of Piano or Lessons in Piano	1
Musperf 011	Fundamentals of Voice	1
Music 182	Symphony Orchestra	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ⁴	Music Convocation	0
Electives and Core Curriculum		9
Total		17
Sophomore Year – Semester I		Cr
Musperf 2xx	Lessons in Principal Instrument	1
Musperf 32	Fundamentals of Trumpet	1

Musperf 0xx	Fundamentals Elective	1
Music 182	Symphony Orchestra	1
Music 211	General History of Western Music I	3
Music 225 ²	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 107 ⁴	Music Convocation	0
Electives and Core Curriculum		6
Total		17
Sophomore Year – Semester II		Cr
Musperf 2xx	Lessons in Principal Instrument	1
Musperf 21	Fundamentals of Flute	1
Musperf 43	Fundamentals of Cello	1
Music 182	Symphony Orchestra	1
Music 212	General History of Western Music II	3
Music 230	Form Analysis	3
Mus Ed 350	Introduction to Music Education	1
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		6
Total		17
Junior Year – Semester I		Cr
Musperf 2xx	Lessons in Principal Instrument	1
Musperf 23	Fundamentals of Clarinet	1
Musperf 41	Fundamentals of Violin	1
Music 182	Symphony Orchestra	1
Music 353	Conducting	2
Music 421	Materials of Contemporary Music	3
Music 307	General History of Western Music III	3
Music 107 ⁴	Music Convocation	0
Ed Psy 330	Introduction to Learning and Development	3
ExEduc 300, 531, or 605	Exceptional Education	3
Total		18
Junior Year – Semester II		Cr
Musperf 2xx	Lessons in Principal Instrument	1
Musperf 44	Fundamentals of Bass	1
Music 182	Symphony Orchestra	1
Music 354	Instrumental Conducting	2
Music 323	Instrumental and Choral Orchestration	3
Music 309	American Folk and Popular Music	2
Mus Ed 450	Field Experience in Music Education	1
Mus Ed 451	Teaching Instrumental Music: Elementary and Middle Levels	2
Mus Ed 452	String Pedagogy	1
Music 107 ⁴	Music Convocation	0
CurrIns 343 or 545	Reading Course	3
Total		17
Senior Year – Semester I		Cr
Musperf 2xx	Lessons in Principal Instrument	1
Musperf 51	Fundamentals of Percussion	1
Musperf 42	Fundamentals of Viola	1
Music 182	Symphony Orchestra	1
Music 3103	Introduction to World Musics	3
Mus Ed 463	Teaching Instrumental Music: Secondary	2
Electives or Core Curriculum		8

Total		17
Senior Year – Semester II		Cr
Mus Ed 477 ⁵	Student Teaching in Music â€™ Elementary Level	4-5
Mus Ed 478 ⁵	Student Teaching in Music â€™ Secondary Level	4-5
Mus Ed 479 ⁵	Seminar in Student Teaching	1
Electives or Core Curriculum		3
Total		13

MUSIC EDUCATION - INSTRUMENTAL MUSIC (WIND AND PERCUSSION) EC-A WITH GENERAL MUSIC EC-A PROGRAM REQUIREMENTS

Music Performance Courses. 7 cr Seven semesters on principal instrument at 200 (or higher) level.

Piano Requirement. Based on audition results, students enroll in MusPerf 1 (Levels I & II) for up to two semesters prior to **MusPerf 101** for two semesters. MusPerf 1 will not be counted toward degree requirement.

Orchestra or Band. 7 cr One credit per semester maximum. For more information, see Performance Ensemble requirement.

Fundamentals of Instruments. 10 cr Student takes every instrument listed except his or her principal performance instrument.

Music 011	Voice	1
MusPerf 21	Flute	1
MusPerf 22	Oboe and Bassoon	1
MusPerf 23	Clarinet	1
MusPerf 24	Saxophone	1
MusPerf 31	Horn	1
MusPerf 32	Trumpet	1
MusPerf 33	Trombone	1
MusPerf 41	Violin	1
MusPerf 51	Percussion	1

Instrumental Music Education. 5 cr Mus Ed 451, 452, and 463 required. Admission into Teacher Certification Program, Peck School of the Arts, required.

Music Theory. 20 cr Core plus Music 230, Form Analysis; Music 323, Instrumental and Choral Orchestration; and Music 421, Materials of Contemporary Music.

Music History. 14 cr Core plus Music 309, American Folk and Popular Music; and Music 310, Introduction to World Musics.

Conducting. 4 cr Music 353 and 354.

Foundations of Music, Music 106 One semester taken during the freshman year, and **Music Convocation, Music 107** five semesters. See Recital and Music Convocation Requirements.

MUSIC EDUCATION - INSTRUMENTAL MUSIC EC-A (WIND AND PERCUSSION) WITH GENERAL

MUSIC EC-A CERTIFICATION CURRICULUM

Recommended curricular order.

Freshman Year – Semester I

MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 101 ¹	Lessons in Piano	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ⁴	Foundations of Music	0
Electives or Core Curriculum		9
Total		15

Freshman Year – Semester II

MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 101 ¹	Lessons in Piano	1
MusPerf 011	Fundamentals of Voice	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		9
Total		17

Sophomore Year – Semester I

MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 22	Fundamentals of Oboe or Bassoon	1
MusPerf 32	Fundamentals of Trumbet	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 211	General History of Western Music I	3
Music 225 ²	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		6
Total		17

Sophomore Year – Semester II

MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 21	Fundamentals of Flute	1
MusPerf 24	Fundamentals of Saxophone	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 212	General History of Western Music II	3
Music 230	Form Analysis	3
Mus Ed 350	Introduction to Teaching Music	1
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		6
Total		17

Junior Year – Semester I

MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 23	Fundamentals of Clarinet	1
MusPerf 41	Fundamentals of Violin	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 307	General History of Western Music III	3
Music 353	Conducting	2

Music 421	Materials of Contemporary Music	3
Mus Ed 461	Teaching Secondary General Music	2
Music 107 ⁴	Music Convocation	0
Ed Psy 330	Introduction to Learning and Development	3
Total		17
Junior Year – Semester II		Cr
MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 31	Fundamentals of French Horn	1
MusPerf 33	Fundamentals of Trombone	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 309	American Folk and Popular Music	2
Music 323	Instrumental and Choral Orchestration	3
Music 354	Instrumental Conducting	2
Mus Ed 450	Field Experience in Music Education	1
Mus Ed 451	Teaching Instrumental Music: Elementary and Middle Levels	2
Mus Ed 452	String Pedagogy	1
Music 107 ⁴	Music Convocation	0
Currins 343 or 545	Reading Course	3
Total		18
Senior Year – Semester I		Cr
MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 51	Percussion Fundamentals	1
Music 40, 42, or 182	Symphony Band, Wind Ensemble, or Symphony Orchestra	1
Music 310 ³	Introduction of World Musics	3
Mus Ed 460	Teaching Elementary General Music Pre-K-6	3
Mu sEd 463	Teaching Instrumental Music: Secondary	2
Music 660	Senior Recital	0
ExcEduc 300 or 545	Exceptional Children	3
Electives or Core Curriculum		3
Total		17
Senior Year – Semester II		Cr
Mus Ed 477 ⁵	Student Teaching in Music â€™ Elementary Level	4-5
Mus Ed 478 ⁵	Student Teaching in Music â€™ Secondary Level	4-5
Mus Ed 479 ⁵	Seminar in Student Teaching	1
Electives or Core Curriculum		3
Total		13

MUSIC EDUCATION - INSTRUMENTAL MUSIC EC-A (STRINGS) WITH GENERAL MUSIC EC-A PROGRAM REQUIREMENTS

Music Performance Courses. 7 cr Seven semesters on principal instrument at the 200 (or higher) level.

Piano Requirement. Based on audition results, students enroll in MusPerf 1 (Levels I & II) for up to two semesters prior to **MusPerf 101** for two semesters. MusPerf 1 will not be counted toward degree requirement.

Orchestra. 7 cr One credit per semester maximum. For more information, see Music, Performance Ensemble Requirement.

Fundamentals of Instruments. 10 cr Student takes every instrument listed except his or her principal performance

instrument.

Music 011	Voice	1
MusPerf 21	Flute	1
MusPerf 23	Clarinet	1
MusPerf 32	Trumpet	1
MusPerf 41	Violin	1
MusPerf 42	Viola	1
MusPerf 43	Cello	1
MusPerf 44i	Bass	1
MusPerf 51	Percussion	1
MusPerf xx	Music Elective	1

Instrumental Music Education. 5 cr Mus Ed 451, 452, and 463 required. Admission into Teacher Certification Program, Peck School of the Arts, required.

Music Theory. 20 cr Core plus Music 230, Form Analysis; Music 323, Instrumental and Choral Orchestration; and Music 421, Materials of Contemporary Music.

Music History. 14 cr Core plus Music 309, American Folk and Popular Music; and Music 310, Introduction to World Musics.

Conducting. 4 cr Music 353 and 354.

Foundations of Music, Music 106 One semester taken during freshman year, and **Music Convocation, Music 107** five semesters. See Recital and Music Convocation Requirement.

MUSIC EDUCATION - INSTRUMENTAL MUSIC EC-A (STRINGS) WITH GENERAL MUSIC EC-A CERTIFICATION CURRICULUM

Recommended curricular order.

Freshman Year – Semester I

MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 101 ¹	Lessons in Piano	1
Music 182	Symphony Orchestra	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ⁴	Foundations of Music	0
Electives or Core Curriculum		9
Total		15

Freshman Year – Semester II

MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 11	Fundamentals of Voice	1
MusPerf 101 ¹	Lessons in Piano	1
Music 182	Symphony Orchestra	1
Music 124	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		9

Total		17
Sophomore Year – Semester I		
MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 32	Fundamentals of Trumpet	1
MusPerf xx	Fundamentals Elective	1
Music 182	Symphony Orchestra	1
Music 211	General History of Western Music I	3
Music 225 ²	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 107 ⁴	Music Convocation	0
Electives or Core Curriculum		6
Total		17
Sophomore Year – Semester II		
MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 21	Fundamentals of Flute	1
MusPerf 43	Fundamentals of Cello	1
Music 182	Symphony Orchestra	1
Music 212	General History of Western Music II	3
Music 230	Form Analysis	3
Music 107 ⁴	Music Convocation	0
Mus Ed 350	Introduction to Teaching Music	1
Electives or Core Curriculum		6
Total		17
Junior Year – Semester I		
MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 23	Fundamentals of Clarinet	1
MusPerf 41	Fundamentals of Violin	1
Music 182	Symphony Orchestra	1
Music 307	General History of Western Music III	3
Music 353	Conducting	2
Music 421	Materials of Contemporary Music	3
Mus Ed 461	Secondary General Music Methods	2
Music 107 ⁴	Music Convocation	0
Ed Psy 330	Introduction to Learning and Development	3
Total		17
Junior Year – Semester II		
MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 44	Fundamentals of Double Bass	1
Music 182	Symphony Orchestra	1
Music 309	American Folk and Popular Music	2
Music 323	Instrumental and Choral Orchestration	3
Music 354	Instrumental Conducting	2
Mus Ed 450	Field Experience in Music Education	1
Mus Ed 451	Teaching Instrumental Music: Elementary and Middle Levels	2
Mus Ed 452	String Pedagogy	1
Music 107 ⁴	Music Convocation	0
Currins 343 or 545	Reading Course	3
Total		17
Senior Year – Semester I		
MusPerf 2xx	Lessons in Principle Instrument	1
MusPerf 51	Fundamentals of Percussion	1
MusPerf 42	Fundamentals of Viola	1
Music 182	Symphony Orchestra	1

Music 310 ³	Introduction to World Musics	3
Music 660	Senior Recital	0
Mus Ed 460	Elementary General Music Methods	3
Mus Ed 463	Teaching Instrumental Music: Secondary	2
ExcEduc 300, 531, or 605	Exceptional Education	3
Electives or Core Curriculum		3
Total		18
Senior Year – Semester II		Cr
Mus Ed 477 ⁵	Student Teaching in Music – Elementary Level	4
Mus Ed 478 ⁵	Student Teaching in Music – Secondary Level	5
Mus Ed 479 ⁵	Seminar in Student Teaching	1
Electives or Core Curriculum		3
Total		13

Footnotes for the Instrumental and Instrumental/General Music Programs

¹ **MusPerf 101.** Based on audition results, students enroll in **MusPerf 1** (Levels I & II) for up to two semesters prior to two semesters of **MusPerf 101**. **MusPerf 1** will not be counted toward degree requirements. .

² **Music 225.** Will serve a successful completion for the University QL-B requirement.

³ **Music 310.** Will serve as successful completion for the University OWC-B requirement.

⁴ **Foundations of Music, Music 106 and Music Convocation, Music 107** credit does not count toward overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 credits. **0 Credit Courses.** A one-credit feel will be assessed by the University if course load is less than 12 or greater than 18 credits.

⁵ **Mus Ed 477, 478, 479** Courses taken concurrently for a minimum of 10 credits.

[Proficiency requirements for teaching certification](#)

MUSIC EDUCATION - CHORAL MUSIC EC-A PROGRAM REQUIREMENTS

Music Performance Courses, 13 cr. Comprising both Piano and Vocal training.

Vocalists. 7 cr of Voice (Mus Perf 211 or higher) and 6 cr of Piano (to include: four semesters of Mus Perf 101, and Mus Ed 331 and 332). Based on audition results, students enroll in **MusPerf 1** (Levels I & II) prior to **MusPerf 101**.

Pianists. 7 cr of Piano (Mus Perf 201 or higher) and 6 cr of Voice (Mus Perf 111 or higher).

Concert Chorale, University Choir, Women’s Chorus or Men’s Chorus, 7 cr At least four semesters should be in an SATB ensemble.

Choral Music Education. 4 cr Core plus Mus Ed 462, Teaching Secondary Choral Music, and Music 415, Choral Literature Survey.

Music Theory. 20 cr Core plus Music 421, Materials of Contemporary Music, and 3-cr theory elective.

Music History and Literature. 14 cr Core plus Music 309, American Folk and Popular Music, and 310, Introduction to World Musics.

Conducting, 4 cr Music 353 and 357.

Pedagogy and Diction. 4 cr Mus Ed 249 and Music 446.

Foundations of Music, Music 106 One semester taken during freshman year, and **Music Convocation, Music 107** five semesters. See Music, Recital and Music Convocation Requirements.

Music EDUCATION - CHORAL Music EC-A CURRICULUM

Recommended curricular order.

Freshman Year – Semester I

	Cr
MusPerf 2xx Principle Instrument	1
MusPerf 1xx ¹ Lessons in Piano or Voice	1
Music 44, 51, 52, or 56Choir	1
Music 123 Aural Theory I	1
Music 127 Materials of Theory I	2
Music 106 ² Foundations of Music	0
Electives or Core Curriculum	9
Total	15

Freshman Year – Semester II

	Cr
MusPerf 2xx Principle Instrument	1
MusPerf 1xx ¹ Lessons in Piano or Voice	1
Music 44, 51, 52, or 56Choir	1
Music 124 Aural Theory II	1
Music 128 Materials of Theory II	3
Music 107 ² Music Convocation	0
Electives or Core Curriculum	9
Total	16

Sophomore Year – Semester I

	Cr
MusPerf 2xx Principle Instrument	1
MusPerf 1xx ¹ Lessons in Piano or Voice	1
Music 44, 51, 52, or 56Choir	1
Music 211 General History of Western Music I	3
Music 225 ³ Materials of Theory III	3
Music 226 Aural Theory III	1
Mus Ed 249 Diction Survey	2
Music 107 ² Music Convocation	0
Electives or Core Curriculum	6
Total	18

Sophomore Year – Semester II

	Cr
MusPerf 2xx Principle Instrument	1
MusPerf 1xx ¹ Lessons in Piano or Voice	1
Music 44, 51, 52, or 56Choir	1
Music 212 General History of Western Music II	3
Music 230 Form Analysis	3

Music 250	Introduction to Teaching Music	1
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		6
Total		16
Junior Year – Semester I		Cr
MusPerf 2xx	Principle Instrument	1
MusPerf 111 ¹	Lessons in Voice	1
OR		
Mus Ed 331	Keyboard Skills for Music Educators I	1
Music 44, 51, 52, or 56	Choir	1
Music 307	General History of Western Music III	3
Music 353	Conducting	2
Music 421	Materials of Contemporary Music	3
Music 107 ²	Music Convocation	0
Ed Psy 330	Introduction to Learning and Development	3
Electives or Core Curriculum		3
Total		18
Junior Year – Semester II		Cr
MusPerf 2xx	Principle Instrument	1
MusPerf 111 ¹	Lessons in Voice	1
OR		
Mus Ed 332	Keyboard Skills for Music Educators II	1
Music 44, 51, 52, or 56	Choir	1
Music 309	American Folk and Popular Music	2
Music 357	Choral Conducting	2
Music 415	Choral Literature Survey	2
Music 446	Vocal Pedagogy	2
Mus Ed 450	Field Experience in Music Education	1
Mus Ed 462	Teaching Secondary Choral Music	2
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		3
Total		17
Senior Year – Semester I		Cr
MusPerf 2xx	Principle Instrument	1
Music 44, 51, 52, or 56	Choir	1
Music 310 ⁴	Introcuton to World Musics	3
MusPerf 660	Senior Recital	0
Mus Ed 460	Teaching Elementary General Music	3
CurrIns 343 or 545	Reading Course	3
ExcEduc 300, 531, or 605	Exceptional Education	3
Electives or Core Curriculum		3
Total		17
Senior Year – Semester II		Cr
Mus Ed 477 ⁵	Student Teaching in Music â€™ Elementary Level	4-5
Mus Ed 478 ⁵	Student Teaching in Music â€™ Secondary Level	4-5
Mus Ed 479 ⁵	Seminary in Student Teaching	1
Electives or Core Curriculum		3
Total		13

MUSIC EDUCATION - CHORAL Music EC-A WITH GENERAL MUSIC EC-A CERTIFICATION PROGRAM REQUIREMENTS

Music Performance Courses. 13 cr Comprised of both Piano and Vocal training.

Vocalists. 7 cr of Voice (Mus Perf 211 or higher) and 6 cr of Piano (to include: four semesters of Mus Perf 101, and Mus Ed 331 and 332). Based on audition results, students enroll in **MusPerf 1** (Levels I & II) prior to **MusPerf 101**.

Pianists. 7 cr of Piano (Mus Perf 201 or higher) and 6 cr of Voice (Mus Perf 111 or higher).

Concert Chorale, University Choir, Women's Chorus, or Men's Chorus, 7 cr At least four semesters should be in an SATB ensemble.

Choral Music Education. 4 cr Core plus Mus Ed 462, Teaching Secondary Choral Music, and Music 415, Choral Literature Survey.

General Music Education. 7 cr Core plus Mus Ed 351, Music Instrument Lab; Mus Ed 460, Teaching Elementary General Music; Mus Ed 461, Teaching Secondary General Music.

Music Theory. 20 cr Core plus Music 421, Materials of Contemporary Music, and 3-cr theory elective.

Music History and Literature. 14 cr Core plus Music 309, American Folk and Popular Music, and 310, Introduction to World Musics.

Conducting. 4 cr Music 353 and 357.

Pedagogy and Diction. 4 cr Mus Ed 249 and Music 446.

Foundations of Music, Music 106 One semester taken during freshman year, and **Music Convocation, Music 107** five semesters. See Music, Recital and Music Convocation Requirements.

MUSIC EDUCATION - CHORAL MUSCI EC-A WITH GENERAL MUSIC EC-A CERTIFICATION CURRICULUM

Recommended curricular order.

Freshman Year – Semester I

MusPerf 2xx	Principle Instrument	1
MusPerf 1xx ¹	Lessons in Piano or Voice	1
Music 40, 51, 52, or 56	Choir	1
Music 123	Aural Theory I	1
Music 127	Materials of Theory I	2
Music 106 ²	Foundations of Music	0
Electives or Core Curriculum		9
Total		15

Freshman Year – Semester II

MusPerf 2xx	Principle Instrum	1
MusPerf 1xx ¹	Lessons in Piano or Voice	1

Music 40, 51, 52, or 56	Choir	1
Music 123	Aural Theory II	1
Music 128	Materials of Theory II	3
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		9
Total		16
Sophomore Year – Semester I		Cr
MusPerf 2xx	Principle Instrument	1
MusPerf 1xx ¹	Lessons in Piano or Voice	1
Music 40, 51, 52, or 56	Choir	1
MusEd 249	Diction Survey	2
Music 211	General History of Western Music I	3
Music 225 ³	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		6
Total		18
Sophomore Year – Semester II		Cr
MusPerf 2xx	Principle Instrument	1
MusPerf 1xx ¹	Lessons in Piano or Voice	1
Music 40, 51, 52, or 56	Choir	1
Music 212	General History of Western Music II	3
Music 230	Form Analysis	3
Music 107 ²	Music Convocation	0
Mus Ed 350	Introduction to Teaching Music	1
Electives or Core Curriculum		6
Total		16
Junior Year – Semester I		Cr
MusPerf 2xx	Principle Instrument	1
MusPerf 111 ¹	Lessons in Piano or Voice	1
OR		
Mus Ed 331	Keyboard Skills for Music Educators I	1
Mus 40, 51, 52, or 56	Choir	1
Music 307	General History of Western Music III	3
Music 353	Conducting	2
Music 421	Materials of Contemporary Music	3
Mus Ed 351	Music Instrument Lab	2
Mus Ed 461	Teaching Secondary General Music	2
Music 107 ²	Music Convocation	0
Ed Psy 330	Introduction to Learning and Development	3
Total		18
Junior Year – Semester II		Cr
MusPerf 2xx	Principle Instrument	1
MusPerf 111 ¹	Lessons in Piano or Voice	1
OR		
Mus Ed 332	Keyboard Skills for Music Educators II	
Music 40, 51, 52, or 56	Choir	1
Music 309	American Folk and Popular Music	2

Music 357	Choral Conducting	2
Music 415	Choral Literature Survey	2
Music 446	Vocal Pedagogy	2
Mus Ed 450	Field Experience in Music Education	1
Mus Ed 462	Teaching Secondary Choral Music	2
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		3
Total		17
Senior Year – Semester I		Cr
MusPerf 2xx	Principle Instrument	1
Music 40, 51, 52, or 56	Choir	1
MusPerf 660	Senior Recital	0
Music 310 ⁴	Introduction to World Musics	3
Mus Ed 460	Teaching Elementary General Music	3
ExcEduc 300, 531, or 605	Exceptional Education	3
Currins 343 or 545	Education Core	3
Electives or Core Curriculum		3
Total		17
Senior Year – Semester II		Cr
Mus Ed 477 ⁵	Student Teaching in Music â€™ Elementary Level	4-5
Mus Ed 478 ⁵	Student Teaching in Music â€™ Secondary Level	4-5
Mus Ed 479 ⁵	Seminary in Student Teaching	1
Electives or Core Curriculum		3
Total		13

Footnotes for the Choral and Choral/General Programs

¹ **Vocalists, 7 cr** of Voice (Mus Perf 211 or higher) and 6 cr of Piano (to include: four semesters of Mus Perf 101, and Mus Ed 331 and 332). Based on audition results, students enroll in **MusPerf 1** (Levels I & II) prior to **MusPerf 101**. **Pianists, 7 cr** of Piano (Mus Perf 201 or higher) and 6 cr of Voice (Mus Perf 111 or higher).

² **Foundations of Music**, Music 106 and **Music Convocation**, Music 107 credit does not count toward overall degree total. The University will assess a one-credit fee if course load is less than 12 or greater than 18 credits.

³ **Music 225**: Will serve a successful completion for the University QL-B requirement.

⁴ **Music 310**: Will serve as successful completion for the University OWC-B requirement.

⁵ **Mus Ed 477, 478, 479** Courses taken concurrently for a min. of 10 credits.

[Proficiency requirements for teaching certification](#)

MUSIC EDUCATION - GENERAL MUSIC EC-A PROGRAM REQUIREMENTS

Music Performance Courses, 11-15 cr Comprised of Principal Instrument, Piano, and Vocal training.

Pianists. 7 cr of Piano (7 semesters of Mus Perf 201 or higher) and **4 cr of Voice** (Mus Perf 111 or higher).

Vocalist, 7 cr of Voice (7 semesters of Mus Perf 211 or higher), and **3 cr of MusPerf 101 Piano** plus Mus Ed 331.

String, Wind, Guitar, or Percussion, 7 cr Principal Performance instrument at the 200 level or higher, **4 cr of Voice** (MusPerf 011, Mus Perf 111 or higher) and **4 cr of MusPerf 101 Piano** plus Mus Ed 331. Based on audition results, students enroll in **MusPerf 1** (Levels I & II) prior to **MusPerf 101**.

Performance Ensemble. 7 cr Vocalists, pianists, and guitarists take seven semesters of any choral ensemble. Instrumentalists take three semesters of any choral ensemble and four semesters of any instrumental ensemble.

General Music Education. 9 cr Core plus Mus Ed 351, Music Instrument Lab; Mus Ed 458, Musicals and Choirs for Young Voices; Mus Ed 460, Teaching Elementary General Music; Mus Ed 461, Teaching Secondary General Music.

Guitar. 3 cr Either Music 150 or 151. Guitar principal need not take guitar class.

Conducting. 2 cr Music 353.

Vocal Pedagogy. 2 cr Music 446.

Music Theory. 20 cr Core plus Music 421, Materials of Contemporary Music, and 3-credit theory elective.

Music History and Literature. 14 cr Core plus Music 309, American Folk and Popular Music, and 310, Introduction to World Musics.

Foundations of Music, Music 106 One semester taken during freshman year, and **Music Convocation, Music 107** five semesters. See Music, Recital and Music Convocation Requirements.

Music EDUCATION - GENERAL Music EC-A CURRICULUM

Recommended curricular order.

Freshman Year – Semester I

	Cr
MusPerf 2xx ¹ Principle Instrument	1
MusPerf 1xx ¹ Lessons in Voice or Piano	1
Music xxx Performance Ensemble	1
Music 123 Aural Theory I	1
Music 127 Materials of Theory I	2
Music 106 ² Foundations of Music	0
Electives or Core Curriculum	9
Total	15

Freshman Year – Semester II

	Cr
MusPerf 2xx ¹ Principle Instrument	1
MusPerf 1xx ¹ Lessons in Voice or Piano	1
Music xxx Performance Ensemble	1
Music 124 Aural Theory II	1
Music 128 Materials of Theory II	3
Music 107 ² Music Convocation	0
Electives or Core Curriculum	9
Total	16

Sophomore Year – Semester I

Cr

MusPerf 2xx ¹	Principle Instrument	1
MusPerf 1xx ¹	Lessons in Voice and Piano or Mus Ed 331	1-2
Music xxx	Performance Ensemble	1
Music 211	General History of Western Music I	3
Music 225 ³	Materials of Theory III	3
Music 226	Aural Theory III	1
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		6
Total		16-17
Sophomore Year – Semester II		Cr
MusPerf 2xx ¹	Principle Instrument	1
MusPerf 1xx ¹	Lessons in Voice or Piano	1
Music xxx	Performance Ensemble	1
Music 212	General History of Western Music II	3
Music 230	Form Analysis	3
Music 350	Introduction to Teaching Music	1
Music 107 ²	Music Convocation	0
Electives or Core Curriculum		8
Total		18
Junior Year – Semester I		Cr
MusPerf 2xx ¹	Principle Instrument	1
MusPerf 1xx ¹	Lessons in Voice or Piano	1
Music xxx	Performance Ensemble	1
Music 307	General History of Western Music III	3
Music 353	Conducting	2
Music 421	Materials of Contemporary Music	3
Mus Ed 351	Music Instrument Lab	2
Mus Ed 461	Teaching Secondary General Music	2
Ed Psy 330	Introduction to Learning and Development	3
Music 107 ²	Music Convocation	0
Total		18
Junior Year – Semester II		Cr
MusPerf 2xx ¹	Principle Instrument	1
MusPerf 1xx ¹	Lessons in Voice or Piano	1
Music xxx	Performance Ensemble	1
Music 150 or 151	Guitar Class	3
Music 309	American Folk and Popular Music	2
Music 446	Vocal Pedagogy	2
Mus Ed 450	Field Experience in Music Education	1
Mus Ed 458	Musicals and Choirs for Young Voices	2
Music 107 ²	Music Convocation	0
ExcEduc 300, 531, or Exceptional Education 605		3
Total		16
Senior Year – Semester I		Cr
MusPerf 2xx ¹	Principle Instrument	1
MusPerf 1xx ¹	Lessons in Voice or Piano	1
Music xxx	Performance Ensemble	1
Music 310 ⁴	Introduction to World Musics	3
Mus Ed 460	Teaching Elementary General Music Pre-K-6	3

Electives or Core Curriculum		6-7
Currins 343 or 545	Education Core	3
Total		17-18
Senior Year – Semester II		Cr
Mus Ed 477 ⁵	Student Teaching in Music – Elementary Level	4-5
Mus Ed 478 ⁵	Student Teaching in Music – Secondary Level	4-5
Mus Ed 479 ⁵	Seminar in Student Teaching	1
Electives or Core Curriculum		3
Total		13

Footnotes for General Music Program

¹ **Pianists. 7 cr of Piano** (7 semesters of MusPerf 201 or higher) and **4 cr of Voice** (MusPerf 111 or higher). **Vocalist, 7 cr of Voice** (7 semesters of MusPerf 211 or higher), and **3 cr of MusPerf 101 Piano** plus Mus Ed 331. **String, Wind, Guitar, or Percussion, 7 cr** Principal Performance instrument at the 200 level or higher, **4 cr of Voice** (MusPerf 011, MusPerf 111 or higher) and **3 cr of MusPerf 101 Piano** plus Mus Ed 331. ¹ Based on audition results, students enroll in **MusPerf 1** (Levels I & II) prior to **MusPerf 101**.

² **Foundations of Music**, Music 106 and **Music Convocation**, Music 107 credit does not count toward overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 credits.

³ **Music 225**: Will serve a successful completion for the University QL-B requirement.

⁴ **Music 310**: Will serve as successful completion for the University OWC-B requirement.

⁵ **MUS ED 477, 478, 479** Courses taken concurrently for a minimum of 10 credits.

[Proficiency requirements for teaching certification](#)

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Theatre

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Theatre

The Theatre Department at UW-Milwaukee (UWM) focuses on communication, innovation, and collaboration through theatre-making and theatre scholarship. It teaches theatre as a way of changing, exploring, analyzing, reflecting, and impacting society and the people in it. The department's urban setting provides access to a thriving professional arts community with opportunities to engage with the region's many cultural groups and institutions through service learning, mentoring and internships, fieldwork, and practicum placements. These experiences support students interested in developing as artists, educators, and scholars by actively exploring their role as theatre makers in the creation of community.

Degree Programs

The Theatre Department offers two separate degree majors.

The Bachelor of Fine Arts (BFA) in Theatre offers two tracks: Performance and Production. PERFORMANCE majors will focus on either Acting or Musical Theatre. PRODUCTION majors explore across the broad curriculum in Costuming, Stage Management, Technical Production, and Design.

The Bachelor of Arts (BA) in Theatre includes a track in K-12 Theatre Education.

Theatre study, in all degree programs within the department, begins with a common core of course experiences designed to provide learning opportunities encouraging participants to engage with theatre as a way of seeing, understanding, and communicating culture.

General Education. Theatre students must complete the General Education Requirements (GER) in Oral and Written Communication competency (OWC), Quantitative Literacy competency (QL), and Foreign Language proficiency prior to enrolling in 310-level or above theatre courses (see four-year plan suggestions below).

Laptop Requirement. Theatre students in all areas are encouraged to have a laptop computer.

Admission/Retention. To be accepted and continue in good standing within any Theatre degree program, students must meet or exceed all general university requirements, have and maintain a 2.5 GPA overall (with the exception of Theatre Education majors). BA degree majors must then maintain a 2.75 GPA within the major, with the exception of Theatre Education majors, who must maintain a 3.0 in their major. All BFA Theatre majors must maintain a 3.0 in the major after being accepted into their program.

Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students will be put on probation or be denied continuation in their program if they receive a D grade or lower in any Theatre Core course.

Theatre Education intended majors must pass the PPST test before being accepted as a major. As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test before being allowed to engage in their student teaching fieldwork.

Continuation. Students who are in danger of being dropped or put on probation will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee, which consists of three full-time, tenure track, indefinite status, or tenured theatre faculty; a faculty member of the student's own choosing, and the Theatre Department Chair. In addition, a Peck School of the Arts Student Services Advisor will be present at the appeals committee meeting as a non-voting member. Appeals committee findings will be given to the student in writing and in a timely manner.

Capstone. All programs and tracks in undergraduate programs within the Theatre Department require a capstone experience. The Theatre Capstone serves as a laboratory for students and provides a framework for application of developing skills and knowledge. Depending on semester, program, or project, capstones are executed and evaluated within the following courses:

BA Degree

- Theatre 410 (Stage Directing)
- Theatre 465 (Theatre Capstone)
- Theatre 472 (Performance Workshop Capstone)
- Theatre 475 (Rehearsal and Performance)
- Theatre 485 (Elem. Level Student Teaching in Theatre) or
- Theatre 486 (Secondary Level Student Teaching in Theatre)

BFA Acting Degree

- Theatre 571 (Acting 6)

BFA Musical Theatre Degree

- Theatre 472 (Performance Workshop Capstone)

BFA Production Degree

- Theatre 675 (Advanced Studio) or
- Theatre 685 (Internship-Professional Internship)

Capstone evaluations are used to assess student outcomes and program goals.

BACHELOR OF FINE ARTS (BFA) IN THEATRE

The Bachelor of Fine Arts (BFA) in Theatre provides intensive specialized coursework for students seeking professional training in one of two separate tracks: Performance or Production. The **Performance** BFA has two 130-credit tracks in either Acting or Musical Theatre. The **Production** BFA is a singular 120-credit track embracing all the areas of production including design, costume, prop, scenery, lighting, sound, and stage management.

The BFA focuses on uncovering the potential of the individual student in the development of personal performance and/or production practices. The BFA curriculum supports student exploration of theatrical processes including new works as well as the established canon of dramatic literature. The program approaches the work in fresh and innovative ways, giving students a wide range of tools to speak to the contemporary moment both as actors on stage and as artists

in production studios, rehearsal halls, and backstage.

The specialized tracks in the BFA build on the objectives of the department's core curriculum to nurture within each student a deepened, strengthened, and developing professional level of competency. Each track of specialization follows an integrated curriculum based on an intensive, specialized array of courses. These focused arcs of training endow students with a sense of their own identity as artists. Students must continue to show artistic growth and progress and meet academic grade requirements (see above) to continue in the program. Admission to each BFA track is selective and progress reviews are conducted each semester allowing for direct feedback to the student and a chance to explore changing interests or career paths.

- **BFA Acting:** The program builds on the objectives of the department's core curriculum to develop within the student a deepened, strengthened, and professional level of competency in acting and a sense of identity as a performing artist. It prepares students for advanced graduate study in performance or entry into the profession of theatre practice.
- **BFA Musical Theatre:** The program builds on the objectives of a foundational core curriculum in music, dance, and theatre to develop within the student a deepened, strengthened, and professional level of competency in all three areas of performance.
- **BFA Production:** Utilizing a specialized array of classes across all areas of production and building on the foundational core curriculum, the program focuses on uncovering the creative potential of the individual student by developing skills, techniques, and practices for theatre and performance events in the areas of design, scenery, lighting, props, sound, and stage management. Classes prepare students for advanced graduate study or entry into professional theatre positions.

Application Process. The Theatre BFA is in compliance with all general requirements for undergraduate degrees including the general education, continuation, and laptop program requirements (see above). Admission to each BFA track is based on an audition (Acting, Musical Theatre) or interview (Production). Prospective students are encouraged to pre-audition or pre-apply to the Theatre BFA programs during their senior year of high school. Accepted students will gain full admission to their BFA Program on successful completion of their GER core competency requirements. For more information on the application process and to apply online go to: uwm.edu/arts/theatre/

Acceptance into the BFA in Musical Theatre requires a successful audition and application packet prior to beginning in the theatre major, either as an incoming freshman or transfer student. Acceptance into the BFA in Acting requires a successful audition and application that may be made either prior to entering the major as an incoming freshman or transfer student or at the completion of the first year (freshman) Theatre Core sequence.

Application to the BFA is encouraged following successful completion of the first-year (Freshman) Theatre Core sequence (see schedule in suggested 4-year plans below).

BFA program applicants must submit the following:

1. A separate application form;
2. A statement of purpose;
3. A current resume;
4. Copies of high school or appropriate college transcripts (for transfer students). [Unofficial copies are acceptable for departmental purposes.];
5. Two confidential letters of recommendation, preferably from instructors familiar with the student's artistic and/or academic abilities. Letters should be submitted in signed and sealed envelopes or sent electronically directly from the recommender and will remain confidential and the property of UWM; and
6. Acting and Musical Theatre candidates should submit a headshot or other suitable photo.

Freshman and transfer applicants must additionally complete the UWM admission process, be accepted into the university, and send separate copies of transcripts and letters of recommendations directly to the department.

All materials may be submitted to the department electronically.

Following review of applications, all candidates will be contacted for interviews or, for Acting and Musical Theatre candidates, participate in an entrance audition. In the Production interview, candidates will have an opportunity to present representative samples of their work/experience in theatre or related skill areas and to chat with the faculty about their goals. The interview allows time to talk about the Production curriculum and to explore the specific interests of the candidate. Based on this interview, faculty can craft and advise an individualized and challenging arc of training from the many production classes in scenery, lights, sound, props, costumes, and stage management, as well as opening the entire PSOA class offerings to explore the connections between theatre and all the arts.

Additional Musical Theatre Entrance Requirements. Some required courses of the Musical Theatre Track have placement-level testing. As part of the Musical Theatre entrance audition, students take Piano and Theory Placement Exams to determine in which level of piano and music theory to enroll.

Piano: Depending on audition results, a student may be required to enroll in MusPerf 1 (Piano Fundamentals I and II) for two semesters. Proficiency for these courses requires a passing grade of B or better. If piano proficiency can be demonstrated through the Piano Placement Exam, then two semesters of piano lessons at the MusPerf 101 level are required.

Theory: Depending on exam results, a student may be required to enroll in Music 101 (Fundamentals of Music), or test into Music 123 (Aural Theory 1) with 3 additional credits available toward electives. Proficiency for these courses requires a passing grade of C or better.

End-of-Semester Review Process. BFA Theatre faculty will assess students' academic and artistic growth through individual conferences at the end of each semester.

Student Evaluation. All BFA Theatre majors who do not demonstrate a consistent level of artistic and academic improvement and maintain at least a 3.0 GPA in their program may not advance, may be placed on probation, and/or dropped from the program.

Appeal Process. Any BFA Theatre major who is dropped from the program has the right to appeal. The appeals committee will consist of two full-time, tenured or tenure track faculty, or teaching academic staff, from the Peck School of the Arts, a faculty member of the student's own choosing, and the faculty member who oversees the specific degree track. In addition, a Peck School of the Arts Student Services advisor will be present as a non-voting member. Outcome(s) of the appeal will be given to the student in writing and in a timely manner.

BFA DEGREE REQUIREMENTS (Except for Musical Theatre BFA program Track)	Total to Graduate	120-130 credits (depending on track)
University Core Curriculum		45
Theatre Department Core		19-32 by track
BFA Track Requirements and Electives		43-66 by track
Total to Graduate		120-130 by track
UNIVERSITY CORE CURRICULUM		45 cr
Competencies		
Oral and Written Communication (OWC) – Part A and Part B		
Quantitative Literacy (QL) – Part A and Part B		
Foreign Language		
General Education Requirements: Credits Outside the Peck School of the Arts		
Humanities		6
Natural Sciences (Must include one lab.)		6
Social Sciences		6
Cultural Diversity (May be met by any designated 3-credit course approved for GER distribution in the humanities, social sciences, or arts.)		

Additional Electives		12
Credits in Peck School of the Arts (9 credits must be taken in at least 3 different PSOA disciplines outside of Theatre. 3 credits may be taken inside or outside of Theatre.)		12
University Credits (outside of Theatre)		3
THEATRE DEPARTMENT CORE (All Theatre BFA Programs Except Musical Theatre)		32 cr
One of the following:		
Theatre 110	Fundamentals of the Actor's Process	3
or		
Theatre 101	Acting for Non-Majors	3
or		
Theatre 204	Theatre for Social Change	3
or		
Theatre 260	Storytelling: (subtitle)	3
Theatre 230	Acting 2: Text and Performance	3
Theatre 213	Play Analysis	3
Theatre 214	Stagecraft (with lab)	4
Theatre 225	Costume Construction (with lab)	4
Theatre 236	Theatre Production and Design	3
Theatre 275	Performing Arts Management	3
Theatre 305	The Theatrical Experience: (subtitle)	3
Theatre 321	The Theatre: Beginning Through Realism	3
Theatre 322	The Theatre: Modern and Contemporary Period	3

BFA TRACK REQUIREMENTS

ACTING

53 cr

Required Courses

43 cr

Theatre 430	Stage Voice and Speech 1	3
Theatre 431	Stage Voice and Speech 2	3
Theatre 440	Physical Performance 1	3
Theatre 441	Physical Performance 2	3
Theatre 463	Master Class in Professional Theatre Study	1
Theatre 470	Acting Technique 3	3
Theatre 471	Acting Technique 4	3
Theatre 475	Rehearsal and Performance (2-3 cr As assigned, repeatable.)	6
Theatre 530	Stage Voice and Speech 3	3
Theatre 531	Stage Voice and Speech 4	3
Theatre 540	Physical Performance 3	3
Theatre 541	Physical Performance 4	3
Theatre 570	Acting 5	3
Theatre 571	Acting 6	3
Electives	Electives as discussed with advisor	10

Acting: Example of Required Courses in 4-Year Plan Year 1

**130 Credits
32 cr**

FALL SEMESTER

University Core	General Education Requirements	6
Theatre 110	Fundamentals of the Actor's Process	3
Theatre 225	Costume Construction	4
Theatre 305	The Theatrical Experience	3

SPRING SEMESTER

University Core	General Education Requirements	6
Theatre 214	Stagecraft	4
Theatre 230	Acting 2: Text and Performance	3
Theatre 236	Theatre Production and Design	3
Year 2		32 cr

FALL SEMESTER

Theatre 213	Play Analysis	3
Theatre 430	Stage Voice and Speech 1	3
Theatre 440	Physical Performance 1	3
Theatre 470	Acting Technique 3	4
PSOA Core	Required Elective	3

SPRING SEMESTER

Theatre 224	Make-up	3
Theatre 431	Stage Voice and Speech 2	3
Theatre 441	Physical Performance 2	3
Theatre 471	Acting Technique 4	4
University Core	General Education Requirements	3
Year 3		34 cr

FALL SEMESTER

Theatre 321	The Theatre: Beginnings Through Realism	3
Theatre 530	Stage Voice and Speech 3	3
Theatre 540	Physical Performance 3	3
Theatre 570	Acting 5	4
University Core	Required Elective	3

SPRING SEMESTER

Theatre 322	The Theatre: Modern and Contemporary Period	3
Theatre 475	Rehearsal and Performance	2
Theatre 531	Stage Voice and Speech 4	3
Theatre 541	Physical Performance 4	3
Theatre 571	Acting 6	4
University Core	Required Electives	3
Year 4		32 cr

FALL SEMESTER

Theatre 275	Performing Arts Management	3
Theatre 475	Rehearsal and Performance	2
University Core	Required Elective	3
PSOA Core	Required Elective	9

SPRING SEMESTER

Theatre 322	The Theatre: Modern and Contemporary Period	3
Theatre 475	Rehearsal and Performance	2
University Core	Required Elective	3
PSOA Core	Required Elective	3
Theatre Electives	Degree Electives	4

THEATRE BFA DEGREE REQUIREMENTS FOR MUSICAL THEATRE PROGRAM 130 credits

University Core Curriculum	45
Theatre Core for Musical Theatre BFA Program	19
BFA Track Requirements and Electives	66
Total to Graduate	130

UNIVERSITY CORE CURRICULUM 45 cr

Competencies

Oral and Written Communication (OWC) – Part A and Part B

Quantitative Literacy (QL) – Part A and Part B

Foreign Language

General Education Distribution Requirements: Credits Outside the Peck School of the Arts

Humanities	6
Natural Sciences (must include one lab.)	6
Social Sciences	6

Cultural Diversity course (May be met by any designated 3-credit course approved for GER distribution in the humanities, social sciences, or arts.)

Additional Electives (outside PSOA) 12

Peck School of the Arts Credits for Musical Theatre BFA Track 12

Music 244 Basic Diction in Singing 1

Dance 315 History of American Musical Theatre 3

Choral Ensemble (1 credit/semester; 2 semesters) 2

Art or Film Course 3

Elective in any area in PSOA 3

General Elective 3

THEATRE CORE FOR BFA MUSICAL THEATRE 19 cr

Theatre 110 Acting 1: Fundamentals of the Actor's Process 3

Theatre 213 Play Analysis 3

Theatre 230 Acting 2: Text and Performance 3

Theatre 236 Theatre Production and Design 3

Theatre 321 The Theatre: Beginning through Realism 3

Select one of the following: 4

Theatre 214 Stagecraft (with lab)

Theatre 225 Costume Construction (with lab)

BFA TRACK REQUIREMENTS

MUSICAL THEATRE BFA REQUIREMENTS 66 cr

Required Courses 59 cr

Music 101 Fundamentals of Music 3

MusPerf 1 or 101 Piano Fundamentals or Piano Lessons (2 sem) 2

Music 123 Aural Theory for Musical Theatre 1

Music 142 Class Voice (group voice) 2

Music 143 Class Voice (group voice) 2

MusPerf 111 Lessons in Voice (1 cr/sem; 2 sem) 2

MusPerf 311 Lessons in Voice (2 cr/sem; 4 sem) 8

Dance – Ballet Dance 111, 112, 211, 212, 311, or 312 (2 cr/sem; 3 sem) 6

Dance – Jazz Dance 115, 116, or 310 (2 cr/sem; 3 sem) 6

Dance 117 Tap 1 2

Dance 327 Dance for Musical Theatre 1 2

Dance 427 Dance for Musical Theatre 2 2

Theatre 231 Introduction to Voice and Speech 3

Theatre 408 Acting in Musical Theatre 3

Theatre 470 Acting 3 3

Theatre 471 Acting 4 3

Theatre 472 Performance Workshop Capstone 3

Select from the following to total 6 cr (Variable credit as assigned/cast) 6

Music 457 Opera Theatre (repeatable)

Theatre 475 Rehearsal and Performance (repeatable)

Dance 490 Repertoire and Ensemble (repeatable)

Electives Electives in music, theatre, or dance as discussed with advisor 7

MUSICAL THEATRE: Example of Required Courses in 4-Year Plan 130 credits

Year 1 32 cr

Fall Semester 16 cr

Dance 111 Ballet 1 2

Music 101	Fundamentals of Music	3
Music 142	Class Voice for Musical Theatre I	2
Music XXX	Choral Ensemble	1
MusPerf 1 or 101	Piano Fundamentals or Piano Lessons	1
Theatre 214 or 225	Stagecraft/Lab or Costume Construction/Lab	4
University Core	General University Requirement	3
Spring Semester		16 cr
Dance 111 or 112	Ballet 1 or 2	2
Music 123	Aural Theory 1	1
Music 143	Class Voice for Musical Theatre II	2
Music XXX	Choral Ensemble	1
MusPerf 1 or 101	Piano Fundamentals or Piano Lessons	1
Theatre 236	Production and Design	3
University Core	General University Requirement	3
University Core	General University Requirement	3
Year 2		33 cr
Fall Semester		16 cr
Dance 111 or 112	Ballet 1 or 2	2
MusPerf 111	Lessons in Voice	1
Music 244	Basic Diction in Singing	1
Theatre 110	Acting I	3
Theatre 321	Theatre History 1	3
Theatre 213	Play Analysis	3
University Core	General University Requirement	3
Spring Semester		17 cr
Dance 115 or 116	Jazz 1 or 2	2
MusPerf 111	Lessons in Voice	1
Theatre 230	Acting 2	3
Theatre 475, Music 457, or Dance 490	Performance Credit	2
University Core	General University Requirement	3
University Core	General University Requirement	3
Elective	(Outside of PSOA)	3
Year 3		34 cr
Fall Semester		17 cr
Dance 315	History of American Musical Theatre (OWC-B required course)	3
Dance 115 or 116	Jazz 1 or 2	2
Dance 117	Tap 1	2
MusPerf 311	Lessons in Voice	2
Theatre 231	Introduction to Voice and Speech	3
Theatre 470	Acting 3	3
Elective	(Related Elective)	2
Spring Semester		17 cr
Dance 115 or 116	Jazz 1 or 2	2
MusPerf 311	Lessons in Voice	2
Theatre 471	Acting 4	3
Theatre 475, Music 457, or Dance 490	Performance Credit	2
PSOA Elective	Art or Film Course	3
Elective	(Outside of PSOA)	3
Elective	(Related Elective)	2
Year 4		31 cr
Fall Semester		16 cr
Dance 327	Dance for Musical Theatre 1	2

MusPerf 311	Lessons in Voice	2
Theatre 408	Acting in Musical Theatre	3
Theatre 472	Performance Workshop Capstone	3
PSOA Elective	(Any PSOA Elective)	3
Elective	(Outside of PSOA)	3
Spring Semester		15 cr
Dance 427	Dance for Musical Theatre 2	2
MusPerf 311	Lessons in Voice	2
Theatre 475, Music 457, or Dance 490	Performance Credit	2
General Elective	(Outside of PSOA)	3
Elective	(General Elective)	3
Elective	(Related Elective)	3

BFA PRODUCTION TRACK

43 cr

Required courses

14 cr

Theatre 412		Career Preparation and Development	2
Theatre 575		Studio (4 credit per semester, repeatable)	8
	or		
Theatre 475		Rehearsal and Performance (variable credit by assignment)	
Theatre 675		Advanced Studio (repeatable)	4
	or		
Theatre 685		Internship in Professional Theatre (variable credit)	

Electives

29 cr.

Select from within the Production Curriculum:

Theatre 215	Properties Production	3
Theatre 218	Drafting and Design Computer Modeling and Graphics	3
Theatre 224	Make-up	3
Theatre 285	Costume Production II	3
Theatre 301	Theatrical Millinery	3
Theatre 304	Costume Design	3
Theatre 314	Scenic Production Special Effects for Scenery	3
Theatre 315	Advanced Properties Production	3
Theatre 318	Scenic Design	3
Theatre 319	Scenic Painting	3
Theatre 325	History of Costume	3
Theatre 327	The Digital Theatre – Pocket Tech	3
Theatre 337	Sound Production	3
Theatre 338	Lighting Production	3
Theatre 343	Patternmaking and Draping	3
Theatre 380	Stage Management	3
Theatre 418	Lighting Studio	3
Theatre 432	Advanced Practicum	3
Theatre 435	Production Management	3
Theatre 437	Sound Design and Digital Editing	3
Theatre 480	Leadership Skills for Mgmt.	3
Theatre 675	Advanced Studio (repeat to 12 cr.)	1-6
Theatre 689	Independent Study – Stage Mgmt.	1-4
Theatre 692	Independent Study – Tech	1-4

Theatre 693	Independent Study – Costumes	1-4
Theatre 698	Independent Study – Mgmt.	1-4
Theatre 699	Independent Study	1-4
Or outside the Production Curriculum:		
Theatre 231	Intro to Voice and Speech	3
Theatre 407	Contemporary Theatre Performance	Variable
Theatre 410	Directing	3
Theatre 497	Study Abroad in Theatre	Variable
Or any other courses in PSOA in consultation with your advisor.		

BACHELOR OF ARTS (BA) IN THEATRE

The Bachelor of Arts (BA) in Theatre focuses on communication, innovation, and collaboration through theatre-making and theatre scholarship. It encourages students to experience theatre as a creative endeavor that influences society and the people in it. The program sustains students' engagement and learning so they may develop as artists, educators, and scholars actively engaged in their role as theatre makers in the creation of community.

The BA program is designed to support the breadth of theatre learning through socially responsive, creative, and educative practices. The curriculum focuses on site-specific work, educational theatre, applied, critical, civically engaged, and devised work. The program requires students to engage with theatre in multiple settings, institutions and cultures – the stage, the classroom, and the community at large. The BA in Theatre also supports a professional track area for students seeking a Wisconsin Theatre Teaching license in PK4-12 Theatre.

Program Requirements. The Bachelor of Arts (BA) in Theatre is a 120-credit program. BA Theatre majors are required to fulfill the department's core then focus their study on educational and social justice theatre, creative storytelling, and civic engagement through theatre, ethnographic drama, playwriting, and dramaturgical research. For more information please see: uwm.edu/arts/theatre/ba/

BA Theatre students execute a capstone production/project as a culminating demonstration of their learning. PK4-12 Theatre Education students complete their capstone experience through student teaching. The BA capstone is overseen by faculty and may include off-site work. All capstones and student teaching are evaluated through a portfolio process.

Students electing to focus their major in Theatre Education are prepared as future urban Wisconsin Theatre teachers of grades PK4-12. On successful completion of all degree requirements, Theatre Education students are recommended for #325 Theatre licensure in the State of Wisconsin. For more information please see: uwm.edu/arts/theatre/theatre-education

Bachelor of Arts in Theatre Curriculum. The minimum degree requirement is 120 credits. BA Theatre Degree requirements (excluding the BA Theatre Education Track) are distributed as follows:

BA DEGREE REQUIREMENTS	Total to Graduate	120 cr
University Core Curriculum		45
Theatre Department Core		32
BA Track Requirements and Electives		43
Total to Graduate		120
UNIVERSITY CORE CURRICULUM		45 cr
Competencies		
Oral and Written Communication – Part A and Part B		
Quantitative Literacy (QL) – Part A and Part B		
Foreign Language		
General Education Requirement: Credits Outside the Peck School of the Arts		
Humanities		6
Natural Sciences (Must include one lab.)		6

Social Sciences		6
Cultural Diversity (May be met by any designated 3-credit course approved for GER distribution in the humanities, social sciences, or arts.)		
Additional Electives		12
Credits in Peck School of the Arts (outside of Theatre) (3 credits in at least 3 different areas)		12
University Credits (outside of Theatre)		3
THEATRE DEPARTMENT CORE (All Programs)		32 cr
One of the following:		
Theatre 110	Fundamentals of the Actor's Process	3
or		
Theatre 101	Acting for Non-majors	3
or		
Theatre 204	Theatre for Social Change	3
or		
Theatre 260	Storytelling: (subtitle)	3
Theatre 230	Acting 2: Text and Performance	3
Theatre 213	Play Analysis	3
Theatre 214	Stagecraft (with lab)	4
Theatre 225	Costume Construction (with lab)	4
Theatre 236	Theatre Production and Design	3
Theatre 275	Performing Arts Management	3
Theatre 305	The Theatrical Experience: (subtitle)	3
Theatre 321	The Theatre: Beginnings Through Realism	3
Theatre 322	The Theatre: Modern and Contemporary Period	3
BA THEATRE DEGREE REQUIREMENTS		43 cr
<i>Required Courses</i>		25 cr
Theatre 204	Theatre for Social Change (if not taken previously)	3
Theatre 260	Storytelling: (subtitle) (if not taken previously)	3
Theatre 320	Performing Community	3
Theatre 410	Stage Directing	3
One of the following:		
Theatre 218	Drafting and Design Communication	3
or		
Theatre 359	Playwriting	3
One of the following:		
Theatre 304	Costume Design	3
or		
Theatre 318	Scene Design	3
or		
Theatre 323	Special Topics in World Theatre: (subtitle)	3
or		
Theatre 324	Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre	3
or		
Theatre 325	History of Costume	3
or		
Theatre 330	Acting Topics	3
or		
Theatre 357	Digital Audio Workstations for Stage and Studio	3
or		
Theatre 418	Lighting Design	3
or		
Theatre 437	Sound Design and Technology	3
One of the following:		
Theatre 448	The Creative Classroom: Drama and Arts Learning K-8	3

or			
Theatre 473	Theatre in Elementary Education		3
or			
Theatre 474	Theatre in Secondary Education		3
One of the following:			
Theatre 465	Theatre Capstone: (subtitle) (Must take minimum of 2 cr; may repeat once.)		2-4
or			
Theatre 472	Performance Workshop Capstone (Must take minimum of 2 cr; may repeat once.)		2-4

Recommended Electives: Electives are chosen in consultation with the individual student's departmental advisor. Students are encouraged to take upper-level courses (310 and above) and/or courses in BFA programs (*after* their degree requirements have been met, with permission from course instructors). **18 cr**

The following BA electives (non-required courses) are offered irregularly as electives in the major:

Theatre 108	Introduction to Musical Theatre		3
Theatre 111	Theatre Games		3
Theatre 202	Theatre Practicum		2
Theatre 224	Make-up		3
Theatre 231	Introduction to Voice and Speech		3
Theatre 308	Advanced Make-up: (subtitle)		3
Theatre 311	Advanced Improvisation		3
Theatre 339	Stage Combat		3
Theatre 360	Service Learning in Theatre: (subtitle)		1
Theatre 407	Contemporary Theatre Performance: (subtitle)		3
Theatre 432	Advanced Theatre Practicum		2
Theatre 497	Study Abroad in Theatre: (subtitle)		1-12
Theatre 694	Independent Study - Directing		1-4
Theatre 695	Independent Study - History, Literature, and Criticism		1-6
Theatre 696	Independent Study - Playwriting		1-6
Theatre 697	Independent Study - Theatre Education and Theatre for Young Audiences		1-6

BA Theatre: Example of Required Courses in 4-Year Plan **120 Cr**

Year 1 **30 cr**

FALL SEMESTER

University Core	General Education Requirements		9
Theatre 110	Fundamentals of the Actor's Process		3
Theatre 213	Play Analysis		3

SPRING SEMESTER

University Core	General Education Requirements		9
Theatre 230	Acting 2: Text and Performance		3
Theatre 275	Performing Arts Management		3

Year 2 **32 cr**

FALL SEMESTER

University Core	Required Electives		6
Theatre 224	Costume Construction		4
Theatre 236	Theatre Production and Design		3
Theatre 260	Storytelling		3

SPRING SEMESTER

University Core	Required Electives		6
Theatre 204	Theatre for Social Change		3
Theatre 214	Stagecraft		4
Theatre 305	The Theatrical Experience: (subtitle)		3

Year 3 **30 cr**

FALL SEMESTER

PSOA Core	Required Electives	6
Theatre 218 or 359	Drafting and Design Communication or Playwriting	3
Theatre 321	The Theatre: Beginnings Through Realism	3
Theatre 448 or 475	Theatre Education Methods	3
SPRING SEMESTER		
Theatre 320	Performing Community	3
Theatre 322	The Theatre: Modern and Contemporary Period	3
PSOA Core	Required Elective	3
BA Degree Elective	Elective	3
University Core	General Elective	3
Year 4		28 cr
FALL SEMESTER		
PSOA Core	Required Elective	3
BA Degree Elective	Electives	6
Theatre 410	Stage Directing	3
Theatre 465 or 472	Theatre Capstone: (subtitle) or Performance Workshop Capstone	2
SPRING SEMESTER		
Theatre 304, 318, 323, 324, 325, 330, 357, or 457	BA Required Choice Elective	3
BA Degree Electives	Electives	9
Theatre 465 or 472	Theatre Capstone: (subtitle) or Performance Workshop Capstone	2

BA Theatre Education Licensure Program

The Theatre Education Program of study, within the BA Theatre degree program, is a 120-credit degree that prepared future urban theatre teachers for grades PK4-12.

BA THEATRE EDUCATION TRACK REQUIREMENTS	Total to Graduate	120 cr
University Core Curriculum		45
Theatre Department Core		32
Theatre Education Track Requirements and Electives		43
Total to Graduate		120

Admission and Continuation Requirements. All students admitted to UWM professional education programs (including the Theatre Education track) must take the Pre-Professional Skills Test (PPST) required by the Department of Public Instruction of the State of Wisconsin. Students must pass the PPST before acceptance to the licensure program in Theatre. All students must also take and pass the Praxis II Theatre Content Test prior to being approved for student teaching. Post-baccalaureate students must pass the PPST and Praxis II Theatre Content Test before acceptance to the licensure program in theatre (as per Wisconsin Department of Public Instruction regulations).

Students must have at least a 2.75 cumulative grade point average (within general University courses) and a 3.0 within the major to be admitted to the Theatre Education Program.

Students must have successfully completed the Communication and Foreign Language Competencies (see below) and Oral and Written Communication (OWC) and Quantitative Literacy (QL) competencies and have at least 58 credits (completed or in progress) before being accepted as a major into the Theatre Education Program. For purposes of advisement, prior to meeting this requirement students are identified as "Theatre Education Intended."

After meeting the above requirements, students submit an official application form and are interviewed by the Director of the Theatre Education Program. The results of this application are then sent to the Peck School of the Arts Student Services Office and students are informed whether they have been accepted into the program.

The application interview includes a discussion of the student's professional goals and a review of the student's past theatre work. In the review, students may include materials such as:

1. A discussion of the student's professional goals.
2. A review of the student's past theatre work. Students may include materials such as:
 - resume;
 - transcript;
 - rehearsal/production diaries;
 - documentation of directing/performance experience showing representative roles or productions;
 - practicum/design/production work (photos/renderings/working drawings/samples) in design of costumes, scenery, sound, and lighting, etc.; or
 - work with learners in urban environments.

Students who are not accepted into the licensure program at the time of their interview may reapply in the following semester.

Communications Requirement. Students interested in pursuing a professional education teaching credential must also take a communications course. At UWM students may choose either Commun 101 or 103 (*Commun 101 is a GER Social Science course; Commun 103 is a GER Humanities course*).

Human Relations Requirement. The Human Relations Requirement provides prospective teachers with awareness and understanding of intercultural relations within the educational setting. The requirement is met with coursework and classroom experience.

Effective July 1, 1992, and pursuant to 1987 Wisconsin Act 31, a license to teach may not be granted unless “*the applicant has received instruction in the study of minority group relations, including instruction in the history, culture, and tribal sovereignty of American Indian tribes and bands located in this state.*” Currently, this requirement is met through satisfactory completion and a passing grade in one of the following courses: Ethnic 203, Hist 263, Anthro 213, or English 276 (with the special topic "Literature, History, and Sovereignty of Upper Midwest Indians"), or Wisconsin Act 31 seminar attendance. Questions regarding this requirement should be directed to the student's academic advisor.

Fieldwork and Student Teaching. A passing score on the Praxis II Theatre Content Test, a clear criminal background check, and a negative TB test, along with an application of intent are required prior to working in public schools and student teaching.

Teaching Portfolio. The Theatre Education course of study requires that students compile a teaching portfolio that demonstrates teaching proficiency in their area of expertise. Changes in State and Federal Laws may require that students also submit this portfolio along with other artifacts to an external assessment company or organization for further review and/or approval.

Students are responsible for developing a professional portfolio that is developmental in nature, contains evidence of teaching ability, and is evaluated at the beginning, middle, and end of their program. The portfolio should also be available in an online format and will be compiled as a part of their major theatre education methods and field experience requirements. Evidence of teaching proficiency must include:

1. record of PPST passing scores;
2. transcript demonstrating 2.75 GPA;
3. copy of current resume;
4. lesson plans written and taught in early field experiences and student teaching;
5. examples of student and pupil work in video and/or photo formats;
6. statement of teaching and learning philosophy;
7. draft of a Professional Development Plan;
8. written evaluations and observations from cooperating teachers, university supervising teachers, and methods class instructors;
9. self-evaluations and/or teaching journal based upon early field experience teaching and student teaching

experiences; and

10. evidence of proficiency (or better) in all ten InTASC, UWM, DPI, and AATE teaching standards.

Application for WI #325 Theatre Teacher License: In keeping with DPI requirements, UWM Theatre students must have a 2.75 cumulative grade point average within the general University and 3.0 in the major to be approved to apply for a teaching license after graduation.

Following admission to the Theatre Education Program and successful completion of the specified Theatre Education course of studies, a student seeking recommendation for teacher licensure must successfully fulfill the following requirements:

1. fulfill all degree requirements;
2. fulfill the Field Experience Requirement;
3. demonstrate at least a 2.75 cumulative GPA;
4. pass all sections of the Pre-Professional Skills Test (PPST);
5. pass the Praxis II Theatre Content Exam;
6. successfully complete student teaching;
7. demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of theatre education through the use of an electronic teaching portfolio (see explanation below); and
8. pass any teacher evaluations/tests required by the State of Wisconsin.

Course Distribution: The course distribution for the Theatre Education Program is as follows:

BA THEATRE EDUCATION TRACK REQUIREMENTS	Total to Graduate	120 cr
University Core Curriculum		45
Theatre Department Core		32
Theatre Education Track Requirements and Electives		43
Total to Graduate		120
UNIVERSITY CORE CURRICULUM		45 cr
Competencies		
Oral and Written Communication (OWC) – Part A and Part B		
Quantitative Literacy (QL) – Part A and Part B		
Foreign Language		
General Education Requirement: Credits Outside the Peck School of the Arts		
Humanities		6
Natural Sciences (Must include one lab.)		6
Social Sciences		6
Commun 101 or 103 (University General Elective and required by DPI)		3
Required School of Education Courses		
Ed Psy 330 Introduction to Learning and Development		3
One of the following:		
CurrIns 545 Reading in the Content Areas: Middle, Junior, and Senior High School		3
or		
CurrIns 343 Teaching of Reading		3
One of the following:		
ExcEduc 300 The Exceptional Individual		3
or		
ExcEduc 531 Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language		3
or		
ExcEduc 605 Child, Learner, Disabilities		3
Credits in Peck School of the Arts (outside of Theatre) (3 credits in at least 3 different areas)		12
University Credits (outside of Theatre)		3
THEATRE DEPARTMENT CORE (All Programs)		32 cr
One of the following:		

Theatre 110	Fundamentals of the Actor's Process	3
or		
Theatre 101	Acting for Non-majors	3
or		
Theatre 204	Theatre for Social Change	3
or		
Theatre 260	Storytelling: (subtitle)	3
Theatre 230	Acting 2: Text and Performance	3
Theatre 213	Play Analysis	3
Theatre 214	Stagecraft (with lab)	4
Theatre 225	Costume Construction (with lab)	4
Theatre 236	Theatre Production and Design	3
Theatre 275	Performing Arts Management	3
Theatre 305	The Theatrical Experience: (subtitle)	3
Theatre 321	The Theatre: Beginning Through Realism	3
Theatre 322	The Theatre: Modern and Contemporary Period	3

THEATRE EDUCATION REQUIREMENTS

39 cr

Required Courses

Theatre 204	Participatory Theatre (if not taken previously)	3
Theatre 260	Storytelling: (subtitle) (if not taken previously)	3
Theatre 320	Performing Community	3
Theatre 410	Stage Directing	3
One of the following:		
Theatre 218	Drafting and Design Communication	3
or		
Theatre 359	Playwriting	3
Two of the following:		
CurrIns 664	Dramatizing Literature in Elementary Classrooms	3
or		
Theatre 473	Theatre in Elementary Education	3
or		
Theatre 448	The Creative Classroom: Drama and Arts Learning K-8	3
Theatre 474	Theatre in Secondary Education	3
Theatre 484	Fieldwork in Theatre	3
Theatre 485	Elementary Level Student Teaching in Theatre	6
Theatre 486	Secondary Level Student Teaching in Theatre	6

Select from the following electives:

4 cr

Theatre 111	Theatre Games	3
Theatre 202	Theatre Practicum	3
Theatre 224	Make-up	3
Theatre 231	Introduction to Voice and Speech	3
Theatre 304	Costume Design	3
Theatre 311	Advanced Improvisation	3
Theatre 318	Scene Design	3
Theatre 323	Special Topics in World Theatre: (subtitle)	3
Theatre 324	Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre	3
Theatre 325	History of Costume	3
Theatre 330	Acting Topics	3
Theatre 339	Stage Combat	3
Theatre 357	Digital Audio Workstations for Stage and Studio	3
Theatre 418	Lighting Design	3
Theatre 432	Advanced Theatre Practicum	2
Theatre 437	Sound Design and Technology	3
Theatre 465	Theatre Capstone: (subtitle)	2-4

Theatre 472	Performance Workshop Capstone	2-4
Theatre Education: Example of Required Courses in 4-Year Plan		120 Credits
Year 1		30 cr
FALL SEMESTER		
University Core	General Education Requirements	9
Theatre 110	Fundamentals of the Actor's Process	3
Theatre 213	Play Analysis	3
SPRING SEMESTER		
University Core	General Education Requirements	9
Theatre 260	Storytelling: (subtitle)	3
Commun 101/103	Required Course for Licensure	3
Year 2		32 cr
FALL SEMESTER		
University Core	Required Elective	3
Theatre 225	Costume Construction	4
Theatre 236	Theatre Production and Design	3
Theatre 204	Theatre for Social Change	3
PSOA Core	Required Elective	3
SPRING SEMESTER		
PSOA Core	Required Elective	3
Theatre 230	Acting 2: Text and Performance	3
Theatre 214	Stagecraft	4
Theatre 275	Performing Arts Management	3
Theatre 218 or 359	Drafting and Design Communication or Playwriting	3
Year 3		32 cr
FALL SEMESTER		
PSOA Core	Required Elective	3
ExcEduc 300/531/605	Exceptional Education Course	3
Theatre 321	The Theatre: Beginnings Through Realism	3
Theatre 473	Theatre in Elementary Education	3
Ed Psy 330	Human Development	3
BA Elective	Elective	2
SPRING SEMESTER		
Theatre 320	Performing Community	3
Theatre 322	The Theatre: Modern and Contemporary Period	3
Theatre 474	Theatre in Secondary Education	3
PSOA Core	Required Elective	3
Theatre 305	The Theatrical Experience: (subtitle)	3
Year 4		26 cr
FALL SEMESTER		
Theatre 448	The Creative Classroom: Drama and Arts Learning K-8	3
Theatre 484	Fieldwork in Theatre	3
Theatre 410	Stage Directing	3
CurrIns 545 or 343	Teaching Reading	3
BA Elective	Elective	2
SPRING SEMESTER		
Theatre 485	Elementary Level Student Teaching in Theatre	6
Theatre 486	Secondary Level Student Teaching in Theatre	6

THEATRE MINOR

Students may earn a Theatre Minor, or a Theatre Education Minor leading to a teacher licensure (#325).

Theatre Minor. The Theatre Minor study supports active learning through participation in creative, communicative, and innovative processes. It is extremely relevant to other areas of academic study across the University. The Theatre Minor addresses the Essential Learning Outcomes by focusing on creativity and communication skills within the dramatic and theatrical arts.

NOTE: Students are required to take at least 6 credits at the 300 level or above.

REQUIRED COURSES FOR THEATRE MINOR

18 cr

Choose one of the following theatre-literacy courses:

Theatre 100 Introduction to the Theatre 3

or

Theatre 120 Performance and Popular Culture 3

or

Theatre 213 Play Analysis 3

or

Theatre 305 The Theatrical Experience: (subtitle) 3

Choose one of the following production management courses:

Theatre 236 Theatre Production and Design 3

or

Theatre 275 Performing Arts Management 3

Choose one of the following performance courses:

Theatre 101 Acting for Non-Majors 3

or

Theatre 110 Fundamentals of the Actor's Process 3

or

Theatre 111 Theatre Games 3

or

Theatre 204 Theatre for Social Change 3

or

Theatre 260 Storytelling: (subtitle) 3

Choose 9 credits from the following Theatre electives:

Theatre 100 Introduction to the Theatre (if not already taken) 3

Theatre 101 Acting for Non-Majors (if not already taken) – *Note: Minor cannot include both Theatre 101 and Theatre 110.* 3

or

Theatre 110 Fundamentals of the Actor's Process (If not already taken) – *Note: Minor cannot include both Theatre 101 and Theatre 110.* 3

Theatre 111 Theatre Games (if not already taken) 3

Theatre 120 Performance and Popular Culture (if not already taken) 3

Theatre 202 Theatre Practicum 1-4

Theatre 204 Theatre for Social Change (if not already taken) 3

Theatre 213 Play Analysis (if not already taken) 3

Theatre 214 Stagecraft (w/lab) 4

Theatre 215 Properties Production 3

Theatre 218 Computer Modeling and Graphics 3

Theatre 224 Make-up 3

Theatre 225 Costume Construction 4

Theatre 230 Acting 2: Text and Performance 3

Theatre 231 Introduction to Voice and Speech 3

Theatre 236 Theatre Production and Design (if not already taken) 3

Theatre 260 Storytelling: (subtitle) (if not already taken) 3

Theatre 275 Performing Arts Management (if not already taken) 3

Theatre 304 Costume Design 3

Theatre 305 The Theatrical Experience: (subtitle) (if not already taken) 3

Theatre 311	Advanced Improvisation	3
Theatre 318	Scene Design	3
Theatre 320	Performing Community	3
Theatre 321	The Theatre: Beginnings through Realism	3
Theatre 322	The Theatre: Modern and Contemporary Period	3
Theatre 324	Theatre in the Americas: Latin American, Caribbean, and Latino/a Theatre	3
Theatre 325	History of Costume	3
Theatre 330	Acting Topics	3
Theatre 337	Sound Production and Digital Editing	3
Theatre 338	Lighting Production	3
Theatre 359	Playwriting	3
Theatre 380	Stage Management	3
Theatre 407	Contemporary Theatre Performance: (subtitle)	1-3
Theatre 410	Stage Directing	3
Theatre 418	Lighting Design	3
Theatre 437	Sound Design and Digital Editing	3
Theatre 448	The Creative Classroom: Drama and Arts Learning K-8	3
Theatre 475	Rehearsal and Performance	2-3
Theatre 497	Study Abroad in Theatre: (subtitle)	1-12

Theatre Education Minor. The Theatre Department offers a teaching minor leading to a DPI #325 license. This program is open either as an “add-on” license for students pursuing, and accepted into, an education or teaching major in an appropriately related field (e.g., English, Social Studies, MCEA) or teachers who already have a State of Wisconsin teaching license in one of the subjects listed above.

Admission requirements for a Theatre Education minor are the same as those of a major (see Theatre Education admission requirements): Students accepted into the program will be expected to participate in an interview, pass the Praxis I and II Tests prior to admission to the program, their fieldwork, and student teaching (Theatre 484, 485, and Theatre 486). Additionally, students evaluated as lacking in theatre content information, skills, or knowledge will be required to take more than the minimum 21 credits listed here; each individual student's appropriateness, requirements, and their course(s) of study will be determined by the Theatre Education Program Director.

MINIMUM REQUIRED COURSES FOR THEATRE EDUCATION MINOR		45 cr
<i>Required Theatre Content Courses</i>		21 cr
Theatre 110	Fundamentals of the Actor's Process	3
One of the following:		
Theatre 204	Theatre for Social Change	3
or		
Theatre 260	Storytelling: (subtitle)	3
Theatre 213	Play Analysis	3
Theatre 236	Theatre Production and Design	3
Theatre 305	The Theatrical Experience: (subtitle)	3
Theatre 321	The Theatre: Beginnings Through Realism	3
Theatre 322	The Theatre: Modern and Contemporary Period	3
<i>Required Methods and Practice Courses</i>		24 cr
Theatre 410	Stage Directing	3
One of the following:		
Theatre 448	The Creative Classroom: Drama and Arts Learning K-8	3
or		
Theatre 473	Theatre in Elementary Education	3
Theatre 474	Theatre in Secondary Education	3
Theatre 484	Fieldwork in Theatre	3
Theatre 485	Elementary Level Student Teaching in Theatre	6

Courses

THEATRE

Web Home Pages:
[[Peck School of the Arts](#)]

University of Wisconsin-Milwaukee Undergraduate Catalog 2017-2018:

Theatre

[[Peck School of the Arts](#)]

[[Schools and Colleges](#)]

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[[Admission](#) | [Registration](#) | [Financial Information](#) | [Academic Information](#)]

[[Administration](#) | [UWM - Endless Possibilities](#) | [Academic Opportunities](#) | [Campus Resources](#)]

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[UWM Undergraduate Catalog 2017-2018](#)

[College of Health Sciences](#)

Biomedical Sciences

- Web Home Pages:
 - [College of Health Sciences](#)
 - [Biomedical Sciences](#)
- [Admission and Course of Study](#)
- [Courses: Biomedical Sciences](#)

Certificate Programs

- [Certificate Program in Forensic Sciences](#)
- [Certificate Program in Molecular Diagnostics](#)

Biomedical scientists can apply a strong educational background in basic and medical sciences to a variety of career options.

Medical Laboratory Science/Medical Technology. Medical laboratory scientists are trained in the theoretical and practical aspects of laboratory medicine, which are critical to the detection, diagnosis, and treatment of diseases. Medical Laboratory Science offers a wide variety of career options, including hospitals, clinics, independent laboratories, public health facilities, business, industry, research, sales, and marketing. Students also may use this major to prepare for medical or graduate school. Students successfully completing this program are eligible to sit for a national certification exam offered by the American Society for Clinical Pathology (ASCP-BOC). The UWM Medical Laboratory Science Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), www.naacls.org, located at 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119.

Cytotechnology. Cytotechnologists examine human cells under the microscope, looking for early signs of cancer or other diseases. When abnormal cells are detected, the cytotechnologist works with a pathologist to arrive at a final diagnosis. The Cytotechnology program is accredited by the Commission on Accreditation of Allied Health Programs (CAAHEP), www.caahep.org, located at 1361 Park St., Clearwater, FL 33756. Students successfully completing this program are eligible to sit for a national certification exam.

Biomedical Science. This submajor provides excellent preparation for medical, physician assistant, dental, or veterinary school, biomedical research, forensic science, or employment with pharmaceutical or biotechnology companies.

Radiologic Technology. Radiologic technologists, or radiographers, use X-rays and administer contrast media to produce images of the human skeleton, chest, digestive tract, and urinary system. The radiographer works closely with the radiologist or physician. Students complete the first two years of prerequisite courses on campus before applying for placement into the professional education portion of the curriculum. Once accepted into the professional education component of the program, students will take didactic and clinical education courses concurrently. Upon successful completion of the Bachelor of Science degree, students are eligible to write the national registry exam administered by

the American Registry of Radiologic Technologists (www.arrt.org). The Radiologic Technology professional education programs are accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), www.jrcert.org, located at 20 N. Wacker Dr., Suite 2850, Chicago, IL 60606.

Diagnostic Medical Sonography. By using high-frequency sound waves or ultrasound, sonographers produce images of soft tissue and blood flow to assist with the diagnostic process or administration of therapeutic application. Sonography is used to examine the abdomen, breast tissue, female reproductive system, urinary system, heart, and blood vessels. In addition, sound waves are used to guide fine-needle biopsy. Diagnostic Medical Sonography students complete the first two years of prerequisite courses on campus before applying for placement into the professional education portion of the curriculum. Once accepted into the professional education component of the program, students will take didactic and clinical education courses concurrently. Upon successful completion of the Bachelor of Science degree, students are eligible to write the national board exams offered through the American Registry of Diagnostic Medical Sonography (www.ardms.org). The Diagnostic Medical Sonography professional education programs are accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 1361 Park Street, Clearwater, FL 33756.

Public Health Microbiology. Public health microbiology prepares students for a career in the laboratory disciplines of public health. Specifically, students will be educated in a broad range of sciences in order to perform investigatory and laboratory-based analyses of environmental samples for microbial contaminants of interest. Emphasis is placed on pathogenic disease and the human populations that they affect. Students successfully completing this program may sit for the American Society for Clinical Pathology (ASCP-BOC) Technologist in Microbiology national certification exam.

Diagnostic Imaging Degree Completion Offered Online and in the UW Flexible Option format

To be eligible for the Diagnostic Imaging degree completion program, you must hold active registry from one of the following: the American Registry of Radiologic Technologists (ARRT), the American Registry of Diagnostic Medical Sonography (ARDMS), Cardiovascular Credentialing International (CCI), or equivalent professional imaging registry. The program, which provides the opportunity to complete a baccalaureate degree in diagnostic imaging (BSDI), consists of 120 credits with students receiving 60 credits for holding an active registry. Students entering the program with an Associate's Degree will typically complete 60 credits to be eligible for graduation; students entering the program with hospital-based diploma credits only may have additional credits to satisfy towards graduation. Prospective students are strongly encouraged to meet with an academic advisor to have their previous credits evaluated. Please contact an academic advisor at (414) 229-2758.

The degree-completion program is designed for non-traditional adult students who have already worked several years as a healthcare professional and can be completed 100% online. This program will prepare you to assume a wide range of positions and leadership roles in hospitals and clinics, including quality-assurance manager, healthcare administrator, diagnostic imaging educator, and others that require a bachelor's degree for entry, such as occupational therapist, physical therapist, and physician's assistant. With a bachelor of science in diagnostic imaging degree, you will also be qualified to expand your career into other areas of the medical imaging industry, from product development to sales and marketing.

Students may also choose to complete the program via the UW Flexible Option. The Flex Option is especially designed for self-motivated nontraditional students who want their previous schooling, work skills, and prior knowledge to apply toward degrees or certificates. The competency-based and self-paced format of the UW Flexible Option fits the schedules of students who must balance work and family responsibilities with educational goals. Because most Flexible Option competencies and assessments are delivered online, students have the opportunity to learn when and where they choose.

Health Sciences Degree Completion Offered fully Online with delivery in the UW Flexible Option format pending. This interdisciplinary degree completion in Health Sciences is open to those holding an Associate's degree in a health-related profession and an active certification or license in a related health profession. Applicants with the required credentials are awarded 60 credits and will then complete a minimum of 60 additional credits toward the baccalaureate degree. Students with GER requirements or those planning application to specific professional graduate programs may

need to complete more than 60 credits. Coursework may be completed on-line. The availability of this degree completion program in a Flex Option competency-based format is pending approval as of the publication date of this Catalog.

Prospective students are strongly encouraged to meet with an academic advisor to have their previous credits evaluated. Please contact an academic advisor at (414) 229-2758.

This degree completion program will prepare you to assume a wide range of positions and leadership roles in hospitals and clinics, including quality-assurance manager, healthcare administrator, health educator, and others that require a bachelor's degree for entry, such as occupational therapist, physical therapist, and physician's assistant.

ADMISSION AND COURSE OF STUDY

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors: Medical Laboratory Science, Biomedical Science, Cytotechnology, Radiologic Technology, Diagnostic Medical Sonography, Diagnostic Imaging (degree completion program), Health Science (degree completion program), or Public Health Microbiology. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

Medical Laboratory Science, Biomedical Science, Cytotechnology, or Public Health Microbiology. For students pursuing Medical Laboratory Science, Biomedical Science, or Cytotechnology, the junior year consists primarily of pre-clinical courses, and the senior year is a 12-month professional training experience. Students in the Public Health Microbiology submajor complete an eight-week internship with the City of Milwaukee Health Department. The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM's General Education Requirements (GER);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
- 4a. Completion of all required courses and electives (87 credits) through the second semester of junior year for students pursuing Medical Laboratory Science, Cytotechnology, or Biomedical Sciences;
- 4b. Completion of all required courses and electives (114 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses. Medical Laboratory Science and Cytotechnology students must be prepared for full-time study (40 hours per week) that could also require additional study time at night and on weekends.

Radiologic Technology. Students pursuing Radiologic Technology complete the freshman and sophomore years on campus. Students accepted into the professional education curriculum complete the junior and senior years at either the on-campus UWM radiography program or off campus through external radiography programs offered at Aurora St. Luke's in Milwaukee, Froedtert Hospital in Milwaukee, UW Hospital & Clinics in Madison, WI, Wheaton Franciscan All Saints in Racine, and Wheaton Franciscan St. Joseph in Milwaukee. Students are responsible for any relocation and

all living expenses during clinical education.

Entry into professional training is competitive and dependent upon:

1. Completion of UWM's General Education Requirements (GER);
2. Completion of all required courses and electives (60 credits) in the freshman and sophomore semesters with a cumulative GPA of 2.5;
3. Successful completion of the professional education application process to include an on-site interview with the external radiography programs and/or the UWM radiography program;
4. Successful completion of a background check, health physical, and drug screen prior to the beginning of the professional curriculum, and maintenance of health insurance and CPR certification for the duration of the professional curriculum;
5. Students are required to earn a grade of C or better in Physics 110, Chem 101, Bio Sci 202, Bio Sci 203, BMS 301, BMS 302, BMS 303, BMS 304, and BMS 305;
6. Completion of a job-shadowing experience in an imaging department with a Radiologic Technology professional prior to applying for placement into the professional education component is highly recommended; and
7. Completion of a CNA (Certified Nursing Assistant) course is highly recommended, but not required. View a list of WI nurse aide training programs at www.dhs.wisconsin.gov/caregiver/.

Additional information is available from the Office of Student Affairs, (414) 229-2758.

Admission into the professional curriculum is competitive and final admission decisions rest with the program directors. Admission is not guaranteed. To remain eligible to continue in the professional education curriculum, students must adhere to all program policies and procedures.

Curriculum for the Biomedical Sciences Major (Radiology Technology - 126 cr)

Freshman Year – Semester I

	Cr
Chem 101 Chemical Science	4
Bio Sci 202 Anatomy and Physiology I	4
BMS 205 Introduction to Diagnostic Medicine	3
GER Electives (Social Science)	3
Total	14

Freshman Year – Semester II

	Cr
Chem 103 Survey of Biochemistry	4
Bio Sci 203 Anatomy and Physiology II	4
HS 222 Language of Medicine	3
HS 224 Introduction to Microcomputers for Allied Health Professions	3
Total	14

Sophomore Year – Semester I

	Cr
Physics 110 Physics for the Health Professions	4
HS (HCA) 102 Healthcare Delivery in the United States	3
HS (HCA) 250 Allied Health Information Methods	2
HS (HCA) 251 Healthcare Documentation	1
BMS 301, 302, 303 Human Pathophysiology	3
GER Electives (Arts)	3
Total	16

Sophomore Year – Semester II

	Cr
BMS 245 (SS/CD) Client Diversity in Healthcare	3
Kin 270 Statistics in Health	3
BMS 304, 305 Human Pathophysiology	2
GER Electives (Humanities)	6

Electives	2
Total	16

Courses taken during the Professional Education Curriculum are listed by site at uwm.edu/healthsciences/academics/radiologic-technology

Diagnostic Medical Sonography. Students pursuing Diagnostic Medical Sonography complete the freshman and sophomore years on campus. Students accepted into the professional education curriculum complete the junior and senior years at either the on-campus UWM sonography program or through the external sonography program offered at UW Hospital & Clinics in Madison. The internal clinical affiliates through UWM include clinical sites in the Milwaukee area for general/vascular. Students are responsible for any relocation and all living expenses during clinical training. Entry into the professional curriculum is highly competitive and dependent upon:

1. Completion of UWM's General Education Requirements (GER);
2. Completion of all required courses and electives (60 credits) in the freshman and sophomore semesters with a cumulative GPA of 3.0;
3. Successful completion of the professional education application process to include an on-site interview with the external sonography programs and/or the UWM sonography program;
4. Successful completion of a background check, health physical, drug screen, and maintenance of health insurance and CPR certification for the duration of the professional curriculum;
5. Students are required to earn a grade of C or better in Physics 110, Chem 101, Bio Sci 202, Bio Sci 203, BMS 301, BMS 302, BMS 303, BMS 304, and BMS 305;
6. Complete job-shadowing in an imaging department with a Diagnostic Medical Sonography professional prior to applying for placement into the professional education component; successfully complete a course in CPR; and
7. Completion of a CNA (Certified Nursing Assistant) course is required for the clinical application and placement. View a list of WI nurse aide training programs at www.dhs.wisconsin.gov/caregiver/.

NOTE: 100 hours of patient care beyond the CNA course are required for placement at UW Hospital and Clinics School of Diagnostic Medical Sonography. Documentation verifying the 100 hours and evaluation of job performance will be required. Completing the CNA course and hours by the professional training application deadline of November 1 is recommended.

Additional information is available from the Office of Student Affairs, (414) 229-2758.

Admission into the professional education curriculum is competitive and final admission decisions rest with the program directors. Admission is not guaranteed. To remain eligible to continue in the professional education curriculum, students must adhere to all program policies and procedures.

Curriculum for the Biomedical Sciences Major (Diagnostic Medical Sonography - General Option, 130 cr)

Freshman Year – Semester I

Chem 101	Chemical Science	4
Bio Sci 202	Anatomy and Physiology I	4
BMS 205	Introduction to Diagnostic Medicine	3
GER Electives (Social Science)		3
Total		14

Freshman Year – Semester II

Chem 103	Survey of Biochemistry	4
Bio Sci 203	Anatomy and Physiology II	4
HS 222	Language of Medicine	3
HS 224	Introduction to Microcomputers for Allied Health Professions ²	3
Total		14

Sophomore Year – Semester I

Cr

Bio Sci 325	Genetics	3
Physics 110	Physics for the Health Professions	4
HS (HCA) 250	Allied Health Information Methods	2
BMS 301, 302, 303	Human Pathophysiology	3
GER Electives (Arts)		3
Total		15
Sophomore Year – Semester II		Cr
BMS 245 (SS/CD)	Client Diversity in Healthcare	3
Kin 270	Statistics in Health	3
BMS 304, 305	Human Pathophysiology	2
Philos 244 (HU)	Ethical Issues in healthcare	3
Commun 103 (HU)	Public Speaking	3
Total		14

Courses taken during the Professional Education Curriculum are listed by site at uwm.edu/healthsciences/academics/diagnostic-medical-sonography

**Curriculum for the Biomedical Sciences Major
(Medical Laboratory Science, Cytotechnology, Biomedical Sciences - 130 cr.)**

Freshman Year – Semester I		Cr
Chem 102	Chemical Science ¹	5
Bio Sci 202	Anatomy and Physiology I ¹	4
BMS 101	Introduction to Clinical Laboratory Sciences*	2
BMS 205	Introduction to Diagnostic Medicine* (fall semester only)	3
GER Electives (Arts)		3
* BMS 101 and 205 highly recommended , but not required.		
Total		17
Freshman Year – Semester II		Cr
Chem 104	General Chemistry and Qualitative Analysis ¹	5
Bio Sci 203	Anatomy and Physiology II	4
HS (HCA 224)	Introduction to Microcomputers for Allied Health Professions ²	3
GER Electives (Humanities)		3
Total		15
Sophomore Year – Semester I		Cr
Bio Sci 150	Foundations of Biological Science	4
BMS 301, 302, 303	Human Pathophysiology ¹	3
Chem 341	Introductory Survey of Organic Chemistry ¹ (fall semester only)	3
Chem 342	Introductory Organic Chemistry Laboratory ¹ (fall semester only)	2
English 207	Health Science Writing (OWC-B)	3
Total		15
Sophomore Year – Semester II		Cr
Bio Sci 325	Genetics	4
Kin 270	Statistics in Health	3
BMS 304, 305	Human Pathophysiology ¹	2
GER Electives (Social Science)		6
Total		15
Junior Year – Semester I		Cr
Bio Sci 383*	General Microbiology ¹	4
Chem 501*	Introduction to Biochemistry ¹	3
BMS 427*	Clinical Immunology ¹	3
BMS 428*		1

Clinical Immunology Laboratory

GER Electives (Humanities) 3

Total 14

* In fall of junior year, minimum grade of C is required in Bio Sci 383, Chem 501, and BMS 427 and 428.

* In fall of junior year, students apply to BMS professional study. Minimum 2.5 UWM cumulative GPA is required for the major.

Junior Year – Semester II **Cr**

BMS 420 Introduction to Hematology 3

BMS 421 Introduction to Hematology Laboratory 1

BMS 431 Clinical Chemistry 3

BMS 432 Clinical Chemistry Laboratory 1

BMS 534 Medical Microbiology 3

BMS 535 Medical Microbiology Laboratory 2

BMS 560 Molecular and Genetic Diagnostics 2

BMS 561 Molecular Diagnostics Lab 1

Total 16

Senior Year – Summer Session **Cr**

BMS 521 Applied Clinical Hematology 2

BMS 522 Hemostasis 1

BMS 536 Applied Clinical Microbiology 2

BMS 537 Medical Parasitology and Mycology 2

BMS 541 Urinalysis 1

BMS 542 Applied Clinical Chemistry 2

Total 10

Medical Laboratory Science Submajor

Senior Year – Semester I **Cr**

BMS 523 Lectures in Advanced Clinical Hematology 1

BMS 529 Introduction to Immunohematology 3

BMS 530 Immunohematology and Blood Banking Lab 1

BMS 547 Clinical Laboratory Diagnosis 5

BMS 548 Clinical Laboratory Practicum 5

BMS 555 Toxicology and Therapeutic Drug Monitoring 1

Total 16

Senior Year – Semester II **Cr**

BMS 524 Advanced Clinical Hematology Practicum 3

BMS 531 Advanced Lectures in the Clinical Laboratory Sciences 1

BMS 532 Advanced Clinical Immunohematology and Immunology 3

BMS 538 Advanced Clinical Microbiology Practicum 3

BMS 544 Advanced Clinical Chemistry Practicum 3

BMS 549 Professional Development in Clinical Laboratory Sciences 3

Total 16

Biomedical Sciences Submajor

Senior Year – Semester I **Cr**

BMS 523 Lectures in Advanced Clinical Hematology 1

BMS 547 Clinical Laboratory Diagnosis 5

BMS 555 Toxicology and Therapeutic Drug Monitoring 1

BMS 599 Advanced Independent Study 3

Electives		6
Total		16
Senior Year – Semester II		Cr
BMS 531	Advanced Lectures in the Clinical Laboratory Sciences	1
BMS 549	Professional Development in Clinical Laboratory Sciences	2
BMS 599	Advanced Independent Study	3
Electives		10
Total		16

Cytotechnology Submajor

Senior Year – Semester I		Cr
BMS 501	Introduction to Cytotechnology	1
BMS 575	Cytology of the Female Genital Tract Lecture	4
BMS 576	Cytology of the Female Genital Tract Lab	4
BMS 577	Cytology of the Respiratory Tract	3
Total		12
Senior Year – Semester II		Cr
BMS 578	Cytology of the Gastrointestinal and the Genito-Urinary Tract	2
BMS 579	Cytology of Effusions and the Central Nervous System	3
BMS 580	Aspirations and Miscellaneous Cytology	4
BMS 581	Special Procedures in Cytology	1
BMS 582	Cytology of the Breast	1
BMS 586	Cytology Lab Operations and Quality	1
Total		12
Senior Year – Summer Session		Cr
BMS 583	Cytology Preparation Techniques	1
BMS 587	Research Methods in Cytology	1
BMS 588	Diagnostic Microscopy in Cytology	5
Total		7

¹ Minimum 2.5 GPA required in sciences.

² Or equivalent computer course or competency exam.

* General Education Requirements must be satisfied using elective credits.

Curriculum for the Biomedical Sciences Major (Public Health Microbiology - 129 cr)

Freshman Year – Semester I		Cr
Chem 102	Chemical Science*	5
Bio Sci 202	Anatomy and Physiology I*	4
HS (HCA) 101	Introduction to Health and Disease	2
HS (HCA) 222	Language of Medicine	3
Total		14
Freshman Year – Semester II		Cr
Chem 104	General Chemistry and Qualitative Analysis*	5
Bio Sci 203	Anatomy and Physiology I*	4
HS (HCA 224)	Introduction to Microcomputers for Allied Health Professions	3
GER Electives (Arts)		3
Total		15

Sophomore Year – Semester I		Cr
Bio Sci 150	Foundations of Biological Sciences	4
BMS 301, 302, 303	Human Pathophysiology*	3
Chem 341	Introductory Survey of Organic Chemistry* (fall semester only)	3
Chem 342	Introductory Organic Chemistry Laboratory* (fall semester only)	2
BMS 205	Introduction to Diagnostic Medicine	3
Total		15

Sophomore Year – Semester II		Cr
Bio Sci 325	Genetics*	4
Kin 270	Statistics in Health	3
BMS 304, 305	Human Pathophysiology*	2
BMS 245	Client Diversity in Health Sciences	3
BMS 201	Sexually Transmitted Diseases	3
Total		15

Junior Year – Semester I		Cr
Bio Sci 383	General Microbiology*	4
Chem 501	Introduction to Biochemistry*	3
BMS 427	Clinical Immunology*	3
BMS 428	Clinical Immunology Laboratory*	1
HCA 212	Drugs Used and Abused (SS)	3
Total		14

* In fall of junior year, minimum grade of C is required in Bio Sci 383, Chem 501, and BMS 427 and 428.

* In fall of junior year, students apply to BMS professional study. Minimum 2.5 UWM cumulative GPA is required for the major.

Junior Year – Semester II		Cr
BMS 534	Medical Microbiology	2
BMS 535	Medical Microbiology Lab	2
BMS 560	Molecular Diagnostics	2
BMS 561	Molecular Diagnostics Lab	1
HCA 307	Epidemiology for Health Science	3
HS 311	Law for Healthcare Consumers and Professionals	3
English 205	Business Writing (OWC-B)	3
Total		16

Senior Year – Summer Session		Cr
BMS 536	Applied Clinical Microbiology	2
BMS 537	Medical Parasitology and Mycology	2
Electives		4
Total		8

Senior Year – Semester I		Cr
BMS 539	Public Health Microbiology	2
BMS 540	Public Health Microbiology Lab	2
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 599	Advanced Independent Study (BMS 547 Clinical Laboratory Diagnosis: Immunology and Microbiology)	2
Bio Sci 350	Human Parasitology	3
Bio Sci 405	General Virology	3
GER Electives (Humanities)		3
Total		16

Senior Year – Semester II		Cr
BMS 531	Advanced Lecture in CLS	2
BMS 538	Advanced Clinical Microbiology Program	3
BMS 548	Clinical Lab Practice	5

BMS 549	Professional Development in CLS	2
GER Electives (Humanities)		3
Total		15

* Students must achieve a minimum cumulative GPA of 2.5 in these required science courses. Of the GER electives listed above, select from Arts, Humanities, or Social Science a course to satisfy GER-Cultural Diversity.

Diagnostic Imaging Degree Completion Offered Online and in the UW FLEX Option format

The degree completion program in Diagnostic Imaging is open to professionals holding an active registry from ARRT, ARDMS, CCI, or equivalent professional imaging registry. Students will be awarded 60 credits toward their degree completion for the active registry. Students will then complete a minimum of 60 additional credits toward the baccalaureate degree. The 60 credits needed may be completed completely online. The minimum degree requirement for completion is 120 credits including:

1. Completion of UWM's General Education Requirements (GER);
2. A cumulative UWM GPA of 2.5;
3. Completion of all prerequisite courses (18 credits) with a grade of C or better:
 - HS 102, Healthcare Delivery in the U.S.
 - BMS 205, Introduction to Diagnostic Medicine
 - English 206, Technical Writing or English 207, Health Science Writing
 - Econ 210, Statistics (or equivalent)
 - HCA 220, Leading Healthcare Professionals
 - BMS 245, Client Diversity: An Interdisciplinary Perspective
4. Completion of all advanced Health Sciences/Diagnostic Imaging courses (23 credits) with a grade of C or better:
 - BMS 301 – 305, Pathophysiology
 - HS 311, Law for Healthcare Consumers and Professionals
 - Kin 400, Ethics and Values in the Health and Fitness Professions
 - BMS 458, Seminar in Advanced Diagnostic Imaging
 - BMS 463, Seminar in Management and Education
 - NURS 453, Information Management and Healthcare Technology (or equivalent)
 - BMS 5xx, Professional Growth and Career Advancement in Diagnostic Imaging Professions
 and
5. Electives (19 credits).

Total – 60 credits. Students must complete all requirements within 6 years of entering the program.

Students interested in UW Flexible Option should visit <http://flex.wisconsin.edu/degrees-programs/diagnostic-imaging/> for additional information.

Health Sciences Degree Completion Offered Online and in the UW Flexible Option format

This interdisciplinary degree completion in Health Sciences is open to those holding an Associate's degree in a health-related profession and an active certification or license in a related health profession. Applicants with the required credentials are awarded 60 credits and will then complete a minimum of 60 additional credits toward the baccalaureate degree. Students with GER requirements or those planning application to specific professional graduate programs may need to complete more than 60 credits. Coursework may be completed online or in a flexible, competency-based format.

Degree Requirements

The minimum degree requirement for completion is 120 credits including:

1. Completion of UWM's General Education Requirements (GER), and

2. Completion of math and English competency requirements, and
3. A cumulative UWM GPA of 2.5, and
4. A minimum of 30 credits from UWM.

Curriculum - Courses and Credits (all courses are three credits unless otherwise noted)

HS 102	Healthcare Delivery in the United States
HS 105	Survey of the Health Professions
HCA 220	Leading Healthcare Professionals
BMS 590	Teamwork in the Health Professions
English 206	Technical Writing
or	
English 207	Health Science Writing (OWC-B GER)
HS 250	Allied Health Info Methods (or equivalent)
BMS 205	Introduction to Diagnostic Medicine
Econ 210	Statistics (or equivalent)
InfoSt 110	Introduction to Information Science and Technology
HCA 537	Introduction to Healthcare Databases and Technologies
or	
Nurs 453	Information Management and Healthcare Technology (Flex)
HS 311	Law for Healthcare Consumers and Professionals
Kin 400	Ethics and Values in the Health and Fitness Professions
BMS 590	Professional Development in the Health Professions
BMS 245	Client Diversity in the Health Sciences: An Interdisciplinary Perspective
TherRec 202	Disability, Society, and the Person
TherRec 303	Inclusive and Disability Programs in the Community
	Electives

9

Total – 60 credits. Students must complete all requirements within 6 years of entering the program.

Students interested in UW Flexible Option should visit <http://flex.wisconsin.edu/degrees-programs/health-sciences/> for additional information.

Nutritional Sciences

The Nutritional Sciences Program is a 123-credit interdisciplinary undergraduate major administered jointly by the Biomedical Sciences and Kinesiology Departments in the College of Health Sciences. The Nutritional Sciences program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health. For more information, see the Nutritional Sciences Program description in the Interdisciplinary Majors section of the College of Health Sciences programs in this catalog.

Certificate Program in Forensic Sciences

The Biomedical Sciences Program in the College of Health Sciences cooperates with the departments of Anthropology and Chemistry in the College of Letters and Science and the Criminal Justice Program in the Helen Bader School of Social Welfare to offer studies in forensic sciences. Certificates in Death Investigation, Forensic Sciences, and Forensic Toxicology are available. For more information, see the Forensic Sciences program description in the Inter-School/College section in this catalog.

Certificate Program in Molecular Diagnostics

The certificate program in Molecular Diagnostics trains students in the newly emerging and rapidly evolving field of

laboratory medicine. Students gain a solid foundation and the basic skills necessary for professional employment in Molecular Diagnostic programs in university and hospital laboratories, in new R&D test applications, or in the biotechnology industries serving the Molecular Diagnostics communities.

The certificate is designed to augment the basic education and skills of students currently pursuing a Bachelor of Science degree in Biomedical Sciences or Biological Sciences. With minimal additional courses, students will be able to complete a certificate in Molecular Diagnostics. Coursework will include lecture and laboratory courses that focus on application and preparation for a nationally recognized certification exam.

The certificate program will also be available to returning, non-degree students who wish additional credentials in Molecular Diagnostics for career development or enhancement.

Complete the following courses:

Courses		Cr
Chem 501	Introduction to Biochemistry	3
Bio Sci 325	Genetics	4
BMS 539/540	Public Health Microbiology (Lecture and Lab)	4
or		
Bio Sci 539	Laboratory Techniques in Molecular Biology w/Lab	4
BMS 560/561	Molecular Diagnostics (Lecture and Lab)	3
or		
BMS 705/561	Molecular Pathology (Lecture and Lab)	4

Complete one of the following elective courses:

Courses		Cr
Bio Sci 383	General Microbiology w/Lab	4
Bio Sci 315/316	Cell Biology (Lecture and Lab)	5
BMS 534/535	Medical Microbiology (Lecture and Lab)	5
Bio Sci 536	Applied Microbiology and Biotechnology	3
BMS 599	Advanced Independent Study	3
Total		16-20

Although flexibility is built into this certificate program, students will be expected to have basic knowledge of microbiology and genetics and at least one advanced laboratory course (500 level or above) to qualify for the Molecular Diagnostics Certificate.

Students interested in pursuing this Certificate should contact the Office of Students Affairs at (414) 229-2758. The Office is located in NWQB room 6425.

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Communication Sciences and Disorders

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The Department of Communication Sciences and Disorders offers a Bachelor of Science degree, which provides the pre-professional foundation for graduate study. The student who plans to become a professional speech-language pathologist or audiologist will receive preparation in human communication sciences and disorders as well as a broad educational experience in the liberal arts and sciences.

A career as a speech-language pathologist requires a master's degree. The Department offers a graduate program that is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association (ASHA) in Speech-Language Pathology. The Wisconsin Department of Public Instruction also has approved the undergraduate/graduate program in Communication Sciences and Disorders. A career as an audiologist requires a doctoral degree (AuD or Doctor of Audiology). In Wisconsin, an AuD consortial program is offered by UW-Madison and UW-Stevens Point.

Admission to the Major. To be accepted as a communication sciences and disorders major you must have:

1. A cumulative GPA of 2.75 or better in at least the first 58 credits taken;
2. A GPA of 3.0 or better in Communication Sciences and Disorders courses 220, 230, and 240, earned the *first* time;
3. Completion of Oral and Written Communication - Part A competency;
4. Completion of Quantitative Literacy - Part A competency;
5. Completion of an [application form](#) for admission to the major. Applications are available in the College of Health Sciences Office of Student Affairs, Northwest Quadrant Building B, Room 6451; and
6. Endorsement by the faculty of the student's written application.

Students will receive written notice of the admission decision. A meeting with your advisor to discuss the program of study is required immediately following admission to the major.

Appeal Procedures. Students who are refused admission to the major may appeal the decision by writing to the department chairperson and enumerating the reasons they believe their case is exceptional and merits additional consideration. If possible, the appeal should be accompanied by written support from one or more of the faculty, and

should include documentation of any extenuating circumstances cited in support of the appeal. A committee composed of the entire faculty of the Department of Communication Sciences and Disorders will consider individual student appeals for admission to the major. Students are notified in writing of the faculty's decision concerning the appeal.

Academic Advising. Advising for all undergraduate students is provided by the Office of Student Affairs, Northwest Quadrant Building B, Room 6451, and students are strongly encouraged to confer with that advisor at least once each semester. Students are also encouraged to meet with a Department of Communication Sciences and Disorders faculty member to discuss the requirements and challenges of a career as a speech-language pathologist or audiologist. Seniors should meet with their advisor to review their final year of study and discuss opportunities for graduate study.

Degree Requirements. Students must achieve the following:

1. Satisfactory completion of 120 credits;
2. Satisfactory completion of the required courses in the Department of Communication Sciences and Disorders, and those required outside the department;
3. Satisfactory completion of the University General Education Requirements;
4. A cumulative 2.5 GPA or better in all credits earned at UWM. Students should note that admission to graduate programs in speech-language pathology and audiology is highly competitive. To be competitive with other Graduate School applicants, it is recommended that students maintain a GPA greater than 3.5; and
5. Completion of the last 30 credits in residence at UWM.

Required Communication Sciences & Disorders Courses		47 cr
ComSDis 210	Survey of Communication Disorders	3
ComSDis 220	Anatomy and Physiology of Speech, Hearing, and Language Mechanisms	4
ComSDis 230	Introduction to Phonetics	4
ComSDis 240	Normal Speech and Language Development	3
ComSDis 245	Client Diversity in Health Sciences	3
ComSDis 250	Interprofessional Communication in the Health Sciences	3
ComSDis 350	Clinical Process I: Articulation and Phonology Disorders	3
ComSDis 351	Clinical Process II: Child Language Disorders	3
ComSDis 380	Bases of Hearing Science	3
ComSDis 450	Bases of Fluency and Voice Disorders	3
ComSDis 460	Survey of Adult Neurogenic Language and Speech Disorders	3
ComSDis 470	Introduction to Audiology	3
ComSDis 480	Speech Science	3
ComSDis 490	Aural Rehabilitation	3
ComSDis 520	Counseling in Communication Disorders	3
Extra-Departmental Courses		56-58 cr
Anthro 102	Introduction to Anthropology: Culture and Society	3
or		
Sociol 101	Introduction to Sociology	3
Psych 101	Introduction to Psychology	3
HCA 102	Healthcare Delivery in the U.S.	3
Physics 120	General Physics (Non-Calculus)	4
Bio Sci 202	Anatomy and Physiology I	4
Bio Sci 203	Anatomy and Physiology II	4
HMS 270	Statistics in the Health Professions: Theory and Practice	3
or		
Psych 210	Psychological Statistics	4
or		
Ed Psy 624	Educational Statistical Methods I	3
Psych 260	Child Psychology	3

Linguis 350	Introduction to Linguistics	3
HS 250	Allied Health Information Methods	3
or		
English 207	Health Science Writing	3
or		
English 205	Business Writing	3
ExcEduc 600	Survey of Exceptional Education	3
or		
ExcEduc 300	The Exceptional Individual	3
HCA 203	Human Life Cycle	3
HCA 222	Language of Medicine	3
Ed Pol 375	Cultural Foundations of Education	3
or		
Ed Pol 500	Social Issues and Education	3
or		
Ed Pol 505	Sociology and Education	3
or		
Ed Pol 530	Urban Education: Foundations	3
or		
Ed Pol 540	Modern Philosophies of Education	3
or		
Ed Pol 650	History of American Education	3
Ed Psy 330	Introduction to Learning and Development	3
CurrIns 343	Teaching of Reading (ExcEduc sec)	3
or		
CurrIns 643	Teaching Reading in the Elementary School from a Whole Language Perspective	3
or		
ComSDis 661	The Role of the Speech-Language Pathologist in Literacy	3
Hist 263	North American Indian History Since 1887	3
Ethnic 203	Western Great Lakes American Indian Community Life of the Past	3

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Health Care Administration

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The Health Care Administration (HCA) major is designed to prepare students for a variety of careers in healthcare management. Our program also includes a minor in business administration. Graduates are employed in hospitals and health systems, ambulatory care settings and group practices, rehabilitation facilities, managed care and health insurance companies, federal agencies, long-term care facilities and residential settings, and medical equipment companies. The Health Care Administration program is a full member of the Association of University Programs in Health Administration (AUPHA). Full membership in AUPHA represents programmatic accreditation for undergraduate health administration programs.

Course of Study. The Health Care Administration program offers a four-year curriculum leading to a Bachelor of Science (BS) degree in Health Care Administration. The curriculum includes all necessary requirements for a minor in business administration. Students begin by taking freshman- and sophomore-level foundation courses in the biological and health sciences, health information administration, as well as the liberal arts. This coursework provides a solid basis for the advanced study of healthcare administration that follows. Successful completion of a faculty-supervised, semester-long internship (minimum of 120 hours) at an approved healthcare agency is required in the senior year.

Admission to the Major. The Health Care Administration program will consider applications to the major at the end of each semester, as long as the student's cumulative UWM GPA is 2.5 or above, the student has completed the admission prerequisite courses, and the student has met the grade requirements for required courses. Students are encouraged to apply to the major as soon as they meet these requirements and have achieved sophomore status.

Application forms for admission to the major in HCA can be accessed online or can be requested from the College of Health Sciences (CHS) Office of Student Affairs. Completed application forms and copies of transcripts of previous college work can be submitted to the CHS Office of Student Affairs. The following courses are prerequisites for admission:

Commun 103: Public Speaking

English 102: College Writing and Research or completion of the UWM English competency requirement

Econ 103: Principles of Microeconomics

or

Econ 104: Principles of Macroeconomics

Math 105: Intermediate Algebra

or

a Math placement level C on the proficiency test

HS 102: Healthcare Delivery in the United States

HCA 220: Leading Healthcare Professionals

Students are required to earn a grade of C+ or higher in all HCA and HS courses, and a grade of C or higher in all other required courses. Students who twice earn a grade lower than these requirements in any required course will not be admitted, and if previously admitted, will be dismissed from the HCA major. Such students can submit an appeal to remain in the HCA major.

No student applying to the program with a cumulative UWM GPA lower than 2.5 will be admitted. A student whose cumulative UWM GPA falls below 2.5 will be placed on probationary status and will not be able to graduate with the degree in Health Care Administration until his or her cumulative UWM GPA is 2.5 or higher. Students remaining on probation for more than two consecutive semesters will be dismissed from the major.

Requirements for Internship. The faculty-supervised internship (minimum of 120 hours) is an integral component of the Health Care Administration major. Students, under the direction of a preceptor, are given opportunities for management-related experience in local, national, and international healthcare organizations. Students must be admitted to the major and complete the internship application form by October 1 to be considered for the spring semester and March 1 for the fall semester. Summer internships will be considered for approval on a case-by-case basis, and the application deadline is March 1. Prior to internship, students must complete a background check and must meet physical and health screening requirements.

Graduation Requirements. The following requirements must be met to graduate.

1. Completion of the required 128 credits;
2. A cumulative UWM GPA of 2.5;
3. A grade of C+ or better in all Health Care Administration courses (HCA & HS) and a C or better in all other required courses; and
4. Completion of all University General Education Requirements.

Curriculum for the Health Care Administration Major

Freshman Year – Semester I

Bio Sci 202	Anatomy and Physiology I	4
HS 101	Introduction to Health and Disease	2
HS 105	Survey of the Health Professions	3
Psych 101	Introduction to Psychology	3
Electives		3
Total		15

Freshman Year – Semester II

Bio Sci 203	Anatomy and Physiology II	4
Commun 103	Public Speaking	3
HS 222	Language of Medicine	3
HS 224	Computational Tools for Healthcare Professionals	3
Electives		3
Total		16

Sophomore Year – Semester I

Econ 103	Principles of Microeconomics	3
HS 102	Healthcare Delivery in the United States	3

HCA 220	Leading Healthcare Professionals	3
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I	1
BMS 303	Human Pathophysiology: Organ Systems II	1
Kin 270	Statistics in the Health Professions: Theory and Practice	3
Total		15
Sophomore Year – Semester II		Cr
Econ 104	Principles of Macroeconomics	3
BMS 304	Human Pathophysiology: Organ Systems III	1
BMS 305	Human Pathophysiology: Organ Systems IV	1
HCA 203	Human Life Cycle	3
HCA 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
HCA 307	Epidemiology for the Health Sciences	3
Math 211	Survey in Calculus and Analytic Geometry	4
Total		18
Junior Year – Semester I		Cr
Bus Adm 201	Introduction to Financial Accounting	4
Bus Adm 330	Organizations	3
HCA 450	Healthcare Quality Management	3
HCA 537	Introduction to Healthcare Databases and Technologies	3
HS 250	Allied Health Information Methods	2
Electives		2
Total		17
Junior Year – Semester II		Cr
Bus Adm 350	Principles of Finance	3
HCA 333	Health Organizations Professional Practice Standards	2
HCA 340	Healthcare Process Measurement	3
HCA 541	Healthcare Information Systems Analysis and Design	3
HS 311	Law for Healthcare Consumers and Professionals	3
Electives		3
Total		17
Senior Year – Semester I		Cr
Bus Adm 370	Introduction to Supply Chain Management	3
HCA 421	Operations Management in Healthcare Organizations	3
HCA 422	Human Resource Management in Healthcare Organizations	3
HCA 521	Advanced Systems Thinking for Healthcare Leaders	3
HCA 542	Healthcare Database Design and Management	3
Total		15
Senior Year – Semester II		Cr
Bus Adm 360	Principles of Marketing	3
HCA 460	Healthcare Reimbursement Systems and Policies	3
HCA 502	Healthcare Delivery Systems: National and International Perspectives	3
HCA 580	Health Care Administration Internship	4
Electives		2
Total		15

General Education Requirements (GERs):[^] The courses required within the HCA curriculum satisfy the University's General Education requirements for Cultural Diversity, Social Sciences, Natural Sciences, Quantitative Literacy and Oral and Written Communication*; students should use their elective credits to satisfy GER requirements for the Humanities and the Arts. *Exception: Students still need to satisfy the OWCB requirement, and may take ENG 205 to meet this University GER requirement.

Minor in Health Care Administration

The minor in Health Care Administration consists of 17 credits and may be declared once a student has completed a minimum of 45 credits and achieved a minimum cumulative GPA of 2.5. To obtain the minor, a student must complete at UWM the 17 credits on which a minimum 2.5 cumulative GPA is also required. Declaration forms for the Health Care Administration Minor are available in the College of Health Sciences, Office of Student Affairs, NWQ Building B, 6th Floor. For more information or to schedule an advising appointment, please call (414) 229-2758.

HS 102	Healthcare Delivery in the United States	3
HCA 220	Leading Healthcare Professionals	3
HS 311	Law for Healthcare Consumers and Providers	3
HCA 333	Health Organizations Professional Practice Standards	2
HCA 422	Human Resource Management in Healthcare Organizations	3
HCA 537	Introduction to Healthcare Databases and Technologies	3

Certificate in Health Care Informatics

(Offered cooperatively by the University of Wisconsin-Milwaukee College of Health Sciences and School of Information Studies.)

UWM also offers a certificate in Health Care Informatics, as well as a Master of Science (MS) in Health Care Informatics and a PhD in Medical Informatics. The Certificate in Health Care Informatics provides undergraduate students with the educational foundation to pursue health informatics graduate studies. Students may work towards the certificate concurrently with any undergraduate major or as a post-baccalaureate certificate.

Healthcare organizations employ a vast and complex array of information systems. In order to utilize and maintain these systems, many more knowledgeable and skilled employees are needed.

The objectives of the program are to prepare students to understand, analyze, and evaluate information technology used to perform administrative and clinical tasks in a healthcare organization.

The program is of value to students in the health professions, information studies, and related areas of study who are seeking professional employment with hospitals, clinics, health insurance and pharmaceutical companies, as well as with vendors who have designed, developed, and installed healthcare information systems.

The purpose of the Certificate in Health Care Informatics is to provide an introduction and basic foundation for health professionals, information studies, and other students in the emerging practice of healthcare informatics.

Coursework focuses on:

1. Introduction to information technology theory and application, with a special emphasis on internet communication;
2. Analysis and design of information systems in a healthcare environment;
3. Design, creation, and management of healthcare database systems; and
4. Legal aspects of information products and services.

Curriculum. The following requirements must be successfully completed to obtain a Certificate in Health Care Informatics. A minimum grade of C is required in each of the following courses, as well as a 2.5 cumulative GPA across all required courses.

HS 222	Language of Medicine	3
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HS 224	Computational Tools for Healthcare Professionals	3
or		
InfoSt 110	Introduction to Information Sciences	3
InfoSt 230	Organization of Knowledge	3
InfoSt 250	Internet Communication and Information Transfer	3
HCA 537	Introduction to Healthcare Databases and Technologies	3
HCA 541	Healthcare Information Systems Analysis and Design	3
or		
InfoSt 340	Information Architecture II	3
HCA 542	Healthcare Database Design and Management	3
InfoSt 465	Legal Aspects of Information Products and Services	3
Total		24

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Interdisciplinary Majors

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Nutritional Sciences

The Nutritional Sciences (NUTR) program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health. The curriculum provides a varied foundation in research, education, industry, and government and serves as an excellent pre-professional major for students planning a career in health fields such as physical therapy, medicine, pharmacy, or dentistry. The NUTR curriculum also offers an ideal preparation for advanced graduate training in nutrition, biochemistry, molecular biology, public health, and related disciplines.

NOTE: The Curriculum for students pursuing a BS Nutritional Sciences is under revision as of the publication date of this catalog. Specifically, the program is enacting a series of changes affecting the selection and sequencing of Chemistry courses to meet the student's career goals. The information listed below (Course of Study, Admission to the major, Retention, and Degree Requirements, etc.) applies only to students who have entered UWM before Fall 2017. Students entering UWM in Fall 2017 or later will follow a different set of program requirements. Please contact the Office of Student Affairs, (414) 229-2758 or the College's website <http://uwm.edu/healthsciences/> for the most up to date set of requirements for the Nutritional Sciences Program.

Course of Study. The Departments of Biomedical Sciences and Kinesiology offer a Bachelor of Science in Nutritional Sciences as a four-year curriculum. Students in Nutritional Sciences will carry a classification of "Nutrition-Intended" and spend the majority of their first two years satisfying prerequisites, including the foundation or "core" curriculum and general education requirements. A set of seven (7) nutrition courses (19 credits) serves as the core curriculum for the Nutritional Sciences degree. These courses will equip students with the knowledge and skills in the natural and social sciences that are essential underpinnings to nutrition science. In addition, students will develop critical thinking and professional communication skills through coursework in public speaking, statistics, business and professional writing, and courses that delve into relevant research literature. To be eligible to apply for and progress into the professional years of study, students are required to meet program eligibility requirements.

Total credits for graduation with a Nutritional Sciences major = 123. Students are required to complete a minimum of 34 credits in the major, including 19 in the "core" nutrition curriculum and 15 in the "advanced core" curriculum. In addition, students will have the opportunity to focus their learning in specific areas of nutrition, including nutrition communications, wellness and weight management, and sports nutrition by obtaining 18 "correlate" credits in courses

supporting the emphasis area.

Admission. Admission to the University is achieved by satisfying UWM admission requirements. Students pursuing a Bachelor of Science in Nutritional Sciences must apply specifically to the Nutritional Sciences program. The application process begins during the semester prior to the final two years of the curriculum, while completing the final nutrition “core” courses and the majority of the general education requirements. The following criteria are required prior to admission to the major:

1. Overall cumulative UWM GPA of 2.75;
2. Completion of the majority of UWM’s General Education Requirements before the fall semester of the professional years;
3. Demonstration of English and math proficiency (in accordance with established University standards);
4. Verification that the following foundation courses, or their equivalent, will be completed by the end of the semester before their professional years, with no grade lower than a C:

Foundation Courses

- Bio Sci 150 Foundations of Biological Sciences I
 - Bio Sci 202 Anatomy and Physiology I
 - Bio Sci 203 Anatomy and Physiology II
 - Chem 102 General Chemistry
 - Chem 104 General Chemistry and Qualitative Analysis
 - Psych 101 Introduction to Psychology or Sociol 101 Introduction to Sociology or Anthro 102 Introduction to Anthropology
 - Kin 270 Statistics in the Health Professions
5. Verification that the following “Core” nutrition courses will be completed by the end of the semester before the professional years with a 2.75 GPA and no grade lower than a C:

Core Nutrition Courses

- Kin 241 Why We Eat What We Eat: An Ecological Approach
 - Nutr 101 Introduction to the Nutrition Profession
 - Nutr 110 Introduction to Food Principles and Preparation
 - Nutr 210 Food Science
 - Nutr 235 Introduction to Nutrition for the Health Professions
 - Nutr 240 Nutrition for Exercise and Wellness
 - Nutr 245 Life Cycle Nutrition
6. Verification that the overall cumulative GPA of 2.75 is achieved without repeating more than 3 of the courses listed in items 4 and 5 more than once each; and
 7. Completed application for admission to the Nutritional Sciences program submitted to the Department of Kinesiology. Applications are accepted on a rolling basis at the end of each semester.

Retention. The following criteria are required for retention in the professional years of study and for graduation:

1. Maintenance of a 2.5 cumulative UWM GPA;
2. Completion of the following Advanced Core courses with an average 2.75 GPA and no grade lower than a C. Students may repeat only one of the Advanced Core courses one time. If the required GPA is not met after exhausting all repeats, the student will be dismissed from the program:

Advanced Core Nutrition Courses

- Nutr 435 Nutrition and Disease I
 - Nutr 355 Modifying Nutrition and Eating Behavior
 - Nutr 430 Advanced Nutrition and Metabolism
 - Nutr 470 Nutrition Internship/Project
 - Nutr 350 Nutrition Communication and Education (Oral and Written Competency Part B)
3. Completion of all required courses, correlates, and elective credits (123 minimum degree credits);
 4. Each semester after final grades are posted, if the minimum UWM cumulative GPA of 2.5 and the minimum Advanced Core GPA of 2.75 are not met, the student will be placed on probation for one semester. After that one semester, if the UWM cumulative GPA of 2.5 and the Advanced Core GPA of 2.75 are not met, the student will

- be dismissed from the program; and
5. Completion of the Quantitative Literacy Part B requirement with Kin 270.

Additional coursework required. Additional coursework required for the major includes the following courses:

Commun 103 Public Speaking (HU)
 Anthro 150 Multicultural America or GER Social Science (SS)
 Chem 341 Organic Chemistry
 Bio Sci 101 General Survey of Microbiology
 Chem 501 Introduction to Biochemistry
 Kin 400 Ethics and Values in the Health and Fitness Professions
 English 205 Business Writing or English 207 Health Science Writing
 BMS/Kin 245 Client Diversity in the Health Sciences (SS&)
 Bus Adm 292 Introduction to Entrepreneurship and Small Business Formation
 Elective (Arts-3 credits)
 Elective (HU-3 credits)
 Electives (9 credits)
 Correlate courses (18 credits from a list of correlates including 6 credits at the 300 level or above supporting the student's chosen emphasis area of nutrition)

Curriculum for Nutritional Sciences Major

Freshman Year – Semester I

		Cr
Kin 241	Why We Eat What We Eat F-Su*	3
Chem 102	General Chemistry F-S-Su*	5
Bio Sci 150	Foundations of Biological Sciences F-S-Su*	4
Commun 103	Public Speaking F-S-Su	3
Nutr 101	Introduction to the Nutrition Profession F*	1
Total		16

Freshman Year – Semester II

		Cr
Nutr 110	Introduction to Food Principles and Preparation F-S*	3
Chem 104	General Chemistry and Qualitative Analysis F-S-Su*	5
Psych 101	Introduction to Psychology F-S-Su or	3
Sociol 101	Introduction to Sociology F-S-Su or	
Anthro 102	Introduction to Anthropology F-S-Su*	
Anthro 150	Multicultural America or GER Social Sciences F-S	3
Total		14

Sophomore Year – Semester I

		Cr
Bio Sci 202	Anatomy and Physiology II F-S-Su*	4
Nutr 235	Introduction to Nutrition for the Health Professions F*	3
Kin 270	Statistics in Health Professions F-S-Su*	3
Chem 341	Introduction to Organic Chemistry F	3
GER Arts	Elective	3
Total		16

Sophomore Year – Semester II

		Cr
Bio Sci 203	Anatomy and Physiology I F-S-Su*	4
Nutr 240	Nutrition for Exercise and Wellness S*	3
Nutr 245	Life Cycle Nutrition S*	3
Bio Sci 101	General Survey of Microbiology F-S-Su	4
Nutr 210	Food Science S*	3
Total		17

Junior Year – Semester I

		Cr
Nutr 350	Nutrition Communication and Education F*	3
Chem 501	Introduction to Biochemistry F-S	3

Nutr 355	Modifying Nutrition and Eating Behavior F*	2
GER Humanities Elective		3
Correlate Elective		3
Total		14
Junior Year – Semester II		Cr
English 205	Business Writing F-S-Su or	3
English 207	Health Science Writing F	
BMS/Kin 245	Client Diversity in the Health Sciences S	3
Nutr 430	Advanced Nutrition and Metabolism S*	3
Elective		3
Correlate		3
Total		15
Senior Year – Semester I		Cr
Kin 400	Ethics and Values in the Health and Fitness Professions F-S	3
Nutr 435	Nutrition and Disease I F*	3
Elective		3
Correlate		3
Correlate		3
Total		15
Senior Year – Semester II		Cr
Nutr 470	Nutrition Internship/Project F-S*	4
Bus Adm 292	Introduction to Entrepreneurship and Small Business Formation F-S	3
Elective		3
Correlate (300 level or higher)		3
Correlate (300 level or higher)		3
Total		16

* Students must obtain a minimum of C in these courses to graduate.

Minor in Nutritional Sciences

The Minor in Nutritional Sciences provides students the opportunity to study food and nutrients, their physiological functions, normal nutritional requirements, and the myriad of influences on food choice and eating behavior throughout the life cycle. The required science foundation courses provide the necessary background of chemistry and biological sciences to understand the physiological basis of nutrition, as a multidisciplinary science with relevance to health.

Upon completion of the Minor in Nutritional Sciences, students will be able to:

- Describe the relationship between food and nutrients in human health and well-being;
- Discuss the function, physiology, dietary sources, and symptoms and consequences of deficiency and toxicity for macro- and micronutrients;
- Apply nutrition principles to the human life cycle: nutrient functions, needs, sources, and alterations during pregnancy, lactation, growth and development, maturation, and aging;
- Examine the multiple levels of influence (i.e., intrapersonal, interpersonal, institutional/organizational, community, political, and cultural) that shape food choice and eating behavior;
- Apply scientific principles of basic food chemistry in examining food's physical aspects and preparation; and
- Apply biological and biochemical principles to the understanding of the human digestion and metabolism of macro- and micronutrients.

The Minor in Nutritional Sciences involves the completion of 21 credits of nutrition-related coursework.

Core coursework (15 credits):

Nutr 110	Introduction to Food Principles and Preparation	3
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Nutr 235	Introduction to Nutrition for Health Professionals	3
or		
BMS 232	Introduction to Nutrition	3
Nutr 240	Nutrition for Exercise and Wellness	3
Nutr 245	Life Cycle Nutrition	3
Kin 241	Why We Eat What We Eat: An Ecological Approach	3

Advanced coursework (select 6 credits from the following):

Nutr 355	Modifying Nutrition and Eating Behavior	3
Nutr 430	Advanced Nutrition and Metabolism	4
Nutr 435	Nutrition and Disease I	3
Nutr 550	Sports Nutrition	3
Nutr 555	Public Health Nutrition and Food Politics	3
Kin 573	Body Image: Health-Related Issues and Implications	3
BMS 332	Clinical Nutrition	2
Kin 574	Obesity and Weight Management	3

This list of courses may be modified by the Nutritional Sciences Program Committee as additional courses are developed.

Due to the **prerequisites** for some of the advanced nutrition courses, students will need to have completed the following scientific foundations courses:

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 202	Anatomy and Physiology I	4
Bio Sci 203	Anatomy and Physiology II	4
Chem 103	Survey of Biochemistry	4
or		
Chem 501	Introduction to Biochemistry	3

To be awarded the Minor in Nutritional Sciences, students will need to: (1) Maintain a GPA of 3.0 with no grade lower than a C in core and advanced nutrition courses as well as the scientific foundation courses; (2) Verify that the overall cumulative GPA of 2.75 is achieved without repeating more than 3 of the courses considered core, advanced, or scientific foundations coursework. Students concurrently enrolled in a bachelor's degree program successfully completing the program requirements will be awarded the Minor in Nutritional Sciences at the time of graduation.

Academic advisors within the College of Health Sciences Office of Student Affairs will assist students enrolled in the program with the development of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at (414) 229-2758.

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Kinesiology

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Athletic Training

Certified athletic trainers are healthcare professionals who specialize in preventing, recognizing, managing, and rehabilitating injuries in physically active individuals. As part of a complete healthcare team, the certified athletic trainer works under the direction of a licensed physician and in cooperation with other healthcare professionals, athletics administrators, coaches, and parents.

Master of Science in Athletic Training (MS-AT)

To continue our leadership in Athletic Training education, we are revising our program to reflect the changed nature of professional practice demanding more interprofessional collaboration, a higher degree of autonomy requiring advanced development of clinical reasoning skills, and a skill set in evidence-based practice that allows graduates to actively engage in the rapidly changing science surrounding healthcare practice. Therefore, we have established a graduate, professional education program where students would earn a **Master of Science in Athletic Training**. The program was implemented during the 2015-2016 academic year, with the first students beginning the program for the summer session of 2017. Please refer to the program website for additional information and updates (www.atcp.uwm.edu).

Bachelor of Science in Athletic Training

As of February 1, 2015, the Bachelor of Science in Athletic Training program has suspended admission. This means that unless you have been accepted into this degree program prior to February 1, 2015, you will not be able to earn a bachelor's degree in Athletic Training at UWM. The following information is provided solely for the benefit of students accepted into the BS - Athletic Training program prior to February 1, 2015.

Course of Study. The Department of Kinesiology offers a Bachelor of Science in Athletic Training as a four-year curriculum. The major consists of one semester of pre-Athletic Training study, and 7 semesters once admitted to the Athletic Training Education Program (ATEP) leading to the completion of 130 credits and a Bachelor of Science in Athletic Training degree. The program is accredited by the Commission on the Accreditation of Athletic Training Education.

Admission. Admission to the University is done by satisfying UWM admission requirements. Students pursuing a Bachelor of Science in Athletic Training must apply specifically to the ATEP. The application process begins during the fall pre-Athletic Training semester and students are admitted into the ATEP in January. Students must meet the following criteria to be eligible for application to the ATEP:

1. Cumulative UWM GPA of 2.5 (12 credits minimum);
2. Enrollment in Introduction to Kinesiology (Kin 200), Field Work in Athletic Training (Kin 212), and Responding to Emergencies (HMS 310) courses; and
3. Enrollment in Anatomy and Physiology I (Bio Sci 202) (earned grade of C or better prior to admission).

Students who meet the minimum eligibility requirements are invited to apply for admission into the ATEP. Application materials are distributed as part of the Field Work in Athletic Training (Kin 212) class. Admission is competitive, since the ATEP can accommodate approximately 40 students. Selection is based on the following criteria:

1. Performance evaluations and final grade in Field Work in Athletic Training (HMS 212);
2. Academic performance;
3. Interview;
4. Responsive essay; and
5. Fulfillment of technical standards.

Detailed information regarding the selection process and technical standards is available in the Office of Student Affairs (NWQ Building B, 6th Floor) and Department of Kinesiology reception area (Enderis 411) or on the ATEP website: www.atep.uwm.edu.

Retention Criteria. Once admitted into the ATEP, the student must attain a minimum semester GPA of 2.75 each semester to remain in good standing. Failure to attain a semester GPA of 2.75 or higher will result in the student being placed on academic probation for one semester. A second semester GPA below 2.75 will result in dismissal from the program. To remain eligible for clinical education coursework, students must attain a grade of B- or better in each of the five competency courses.

Foundation Courses. The following courses must be completed with a grade of C or better prior to beginning the junior year. One-semester appeals may be granted provided the student has a cumulative GPA of at least 2.5 and is concurrently enrolled in the course(s) necessary to satisfy the requirement.

- Math 105 - Intermediate Algebra
- Psych 101 - Introduction to Psychology
- Sociol 101 - Introduction to Sociology
- Bio Sci 202 - Anatomy and Physiology I
- Bio Sci 203 - Anatomy and Physiology II
- Chem 100 - Chemical Science
- Physics 120 - General Physics (Non-calculus)
- Kin 200 - Introduction to Kinesiology
- Kin 270 - Statistics in the Health Professions
- BMS 232 - Introduction to Nutrition

Internship Eligibility Criteria. To enroll in Kin 489 Kinesiology Internship and Seminar, the student must meet the following criteria:

Athletic Training Core Courses. The student must complete all of the following courses with a minimum GPA of 2.75:

- Kin 216: Organization and Administration in Athletic Training
- Kin 312: Introduction to Athletic Training
- Kin 314: Recognition and Evaluation of Injuries: Lower Extremity
- Kin 315: Recognition and Evaluation of Injuries: Upper Extremity
- Kin 316: Recognition and Evaluation of Injuries: Head, Neck, and Trunk
- Kin 336: Principles of Strength and Conditioning
- Kin 410: Medical Aspects of Illness Management
- Kin 413: Therapeutic Modalities in Athletic Training
- Kin 414: Therapeutic Exercise and Evaluation in Athletic Training

Kinesiology Core Courses. The student must have a minimum GPA of 2.75 in all of the following courses that have been completed, and have no more than three courses remaining.

- Kin 320: Biomechanics
- Kin 325: Anatomical Kinesiology
- Kin 330: Exercise Physiology
- Kin 350: Psychological Aspects of Sport and Exercise
- Kin 351: Sociological Aspects of Health and Human Movement
- Kin 400: Ethics and Values in the Health and Fitness Professions
- Kin 460: Motor Development Across the Lifespan
- Kin 461: Principles of Motor Learning

Students should be aware that the Kinesiology Internship and Seminar (Kin 489) course requires either a full-time (40 hours per week) commitment for 16 weeks, or a 20-hour-per-week commitment over two consecutive semesters. In addition to the criteria listed previously, the student must be in good standing within the ATEP and have approval from the ATEP Director of Clinical Education to begin the internship.

Graduation Requirements. The following requirements must be met to graduate:

1. Completion of the required 130 degree credits;
2. Cumulative UWM GPA of 2.5; and
3. GPA of 2.75 in Kinesiology Core courses.

Kinesiology

What is Kinesiology? "Kinesiology' is an academic discipline that involves the study of physical activity and its impact on health, society, and quality of life." – *American Kinesiology Association*

Students majoring in kinesiology study the social, behavioral, mechanical, and physiological principles of human movement. Kinesiology students are the future health and fitness providers who use preventative and rehabilitative intervention techniques in commercial health/fitness clubs, community fitness centers, corporate/industrial fitness facilities, and clinical agencies with specialization in cardiac/pulmonary rehabilitation. Two tracks are available to Kinesiology students: Exercise Science and Health Promotion.

The Kinesiology major with the Exercise Science track can be tailored to prepare individuals seeking specialized future careers in the allied health/movement science fields, such as physical therapy, exercise physiology, or chiropractic care, as well as the medical field in areas such as nursing, physician assistant, or traditional medicine. Typically, these types of careers in Kinesiology require post baccalaureate and continuing education for practice and the Exercise Science track provides flexibility to include required coursework.

Kinesiology majors wishing to gain hands-on skills and practice in applying the science of kinesiology in real world settings can select the Health Promotion track. Students in the Health Promotion track complete an internship in their final semester and are well-positioned to either continue their education in graduate Kinesiology or related programs or move into the workforce.

Both tracks allows students the flexibility to complete a minor or certificate to complement students' particular interests. For instance, the student could acquire a business minor in preparation for entering the job market at a supervisory/administrative level, which should provide a fast track to management within health and fitness facilities, community fitness centers, and with entrepreneurial ventures.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

Course of Study. The undergraduate program in the Department of Kinesiology is a four-year curriculum leading to a Bachelor of Science degree in Kinesiology. The program has two tracks, Health Promotion and Exercise Science. Both tracks consist of foundational studies, lab classes, and professional preparation leading to the completion of 120 credits for the Bachelor of Science degree.

Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change as of the publication date of this catalog. Please contact the Office of Student Affairs, NWQ Building B, 6th Floor, 414-229-2758, for the most current information.

Eligibility. Students interested in Kinesiology will remain eligible for continuation in the degree by

1. Completion of UWM's General Education Requirements (students are encouraged to use CHS courses when appropriate);
2. Maintenance of a UWM cumulative grade point average over 2.5;
3. Completion of the Kinesiology Foundation Courses with a grade of C or better. Students may not repeat more than four (4) of the Kinesiology Foundation Courses:
 - Kin 200: Introduction to Kinesiology
 - Kin 270: Statistics in the Health Professions: Theory and Practice
 - Bio Sci 202: Anatomy & Physiology I
 - Bio Sci 203: Anatomy & Physiology II
 - Chem 100: Chemical Science
 - Commun 103: Public Speaking
 - English 207: Health Science Writing
 - Nutr 235: Introduction to Nutrition for the Health Professions
 - Physics 120: General Physics I
 - Psych 101: Introduction to Psychology
 - Sociol 101: Introduction to Sociology
 - Spt&Rec 110-192: Physical Activity Requirement
 - Spt&Rec 292-298: Physical Activity Requirement

Admission. In order to move on to the Kinesiology Core courses, the following admission criteria must be met:

1. 2.5 cumulative GPA;
2. Minimum grade of C in the following foundations courses:
 - Kin 270: Statistics in the Health Professions: Theory & Practice
 - Bio Sci 202: Anatomy and Physiology I
 - Bio Sci 203: Anatomy and Physiology II
 - Chem 100: Chemical Science
 - English 207: Health Science Writing
 - Physics 120: General Physics I
3. Completion of UWM's General Education Requirements; and

4. Completion of online application for admission to the Kinesiology major.

When the criteria are met and application accepted, the student will be admitted to the Kinesiology program.

NOTE: Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change. Please contact the Office of Student Affairs, NWQB 6425, (414) 229-2758, for the most current information.

Retention. Retention in the program and graduation are dependent upon:

1. Maintenance of a 2.5 cumulative UWM GPA.
2. Completion of all courses in one of the following track curriculum with an average GPA of 2.75 in the Kinesiology Core. Students may not repeat more than three (3) of the Kinesiology Core courses.
3. Completion of all required courses, correlates/internship, and elective credits (120 minimum degree credits).

All students will complete the Kinesiology core requirements:

Kin 300	Professional Preparation Seminar	1
Kin 320	Biomechanics	3
Kin 330	Exercise Physiology	4
Kin 350	Psychological Aspects of Sport and Exercise	3
Kin 351	Sociological Aspects of Health and Human Movement	3
Kin 360	Motor Development Across the Lifespan	3
Kin 361	Principles of Motor Learning	3
Kin 400	Ethics and Values in the Health and Fitness Professions	3
Total		23

In addition to the Kinesiology core requirements listed above, students will chose one (1) of the following tracks to follow:

Exercise Science Track

Correlate Coursework Requirements

3 credits Kin 300 – 599

3 credits Kin 500 – 599

12 credits from approved list

Total 18

Total Program Credits 120

Kinesiology Core GPA 2.750

UWM Cumulative GPA 2.500

Health Promotion Track

Professional Skill Development Requirements

Kin 301 Field Experiences in Kinesiology I 1

Kin 302 Field Experiences in Kinesiology II 1

Kin 303 Field Experiences in Kinesiology III 1

Kin 325 Anatomical Kinesiology 3

Kin 336 Principles of Strength and Conditioning 3

Kin 430 Exercise Testing for Fitness Assessment and Exercise Prescription 3

Kin 480 Organization and Administration in the Exercise and Fitness Industry 3

Total 18

Internship and Seminar

Kin 489 Kinesiology Internship and Seminar (480-560 hours) 12

Total Program Credits	120
Kinesiology Core GPA	2.750
UWM Cumulative GPA	2.500

Internship Eligibility. The following requirements must be met before enrolling in Kin 489 Kinesiology Internship and Seminar:

1. Completion of all other curriculum requirements;
2. A 2.5 or greater cumulative GPA;
3. A 2.75 or greater cumulative GPA for all Kinesiology Core requirements (Kin 300, 320, 330, 350, 351, 360, 361, and 400);
4. A C or greater in all Health Promotion track Professional Skill Development requirements;
5. Verification of 100 hours of post-high school paid or volunteer work experience in the health/fitness field; and
6. Verification of First Aid/CPR certification.

Students should be aware that the Kinesiology Internship and Seminar (Kin 489) course requires a full-time (34 hours per week) commitment for 16 weeks.

Graduation Requirements. The following requirements must be met to graduate:

1. Completion of the required 120 degree credits;
2. Cumulative UWM GPA of 2.5; and
3. GPA of 2.75 in Kinesiology Core curriculum courses (listed above).

Students Interested in Physical Therapy

Physical therapy is an integral and unique component of the healthcare system. As a health profession, physical therapy focuses on the neuromuscular, musculoskeletal, and cardiopulmonary systems of the human body as these systems relate to human motion and function. Human movement and the ability to interact physically with one's environment are essential components of physical, emotional, and social well-being. The physical therapist is dedicated to promoting health, preventing disease, and rehabilitating individuals disabled by injury or disease.

The American Physical Therapy Association (APTA) requires students pursuing a career in physical therapy to enter the profession with a post-baccalaureate degree.

An undergraduate degree in Kinesiology will prepare students by providing them with the necessary coursework required to enter most physical therapy graduate programs in the country, provided the student meets other admission criteria.

Admission to a DPT program is competitive. Students must maintain a cumulative GPA of 3.0 or better to be eligible for admission. Completion of UWM's Kinesiology Bachelor of Science degree does not guarantee admission to UWM's DPT program. Also, be aware of the admission requirements for each individual program as they do vary. Information about preparing for DPT is available in this document "[Preparing to Apply for Admission to a Physical Therapy Program](#)".

Sample Plan for Kinesiology Major Student Interested in Physical Therapy

Academic advisors within the College of Health Science Office of Student Affairs will assist students interested in Physical Therapy with the development of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at 414-229-2758.

Minor in Kinesiology

The Minor in Kinesiology affords students opportunities to study the multidisciplinary science of human movement.

Students who complete the Minor in Kinesiology will be able to:

1. Describe, from a multidisciplinary approach, the value and benefits of all forms of physical activity and a healthy lifestyle; and
2. Summarize and apply theoretical and scientific knowledge from multiple Kinesiology sub disciplines such as: biomechanics, exercise physiology, motor behavior, sociological and psychological aspects of physical activity, health, and sport.

To declare the Minor in Kinesiology, students must:

1. Have completed a minimum of 24 credits;
2. Have a minimum UWM GPA of 2.5; and
3. Complete the online declaration form.

The Minor in Kinesiology involves completing 18 credits of kinesiology coursework. Students must:

1. Complete no fewer than 12 credits from the following list (declaration of minor is a prerequisite for each of these courses):

- Kin 320: Biomechanics (3 credits)
- Kin 330: Exercise Physiology (4 credits)
- Kin 350: Psychological Aspects of Sport and Exercise (3 credits)
- Kin 351: Sociological Aspects of Health and Human Movement (3 credits)
- Kin 460: Motor Development Across the Lifespan (3 credits)
- Kin 461: Principles of Motor Learning (3 credits)

2. Complete 6 additional Kinesiology credits level 300 or above.

To be awarded the Minor in Kinesiology, students will need to earn a minimum GPA of 2.5 in the 18 credits in the Kinesiology minor. Students must satisfy published prerequisites of any course.

Academic advisors within the College of Health Science Office of Student Affairs will assist students enrolled in the program with the development of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at 414-229-2758.

Certificate Programs

Healthy Aging

The Undergraduate Certificate in Healthy Aging is an interdisciplinary program housed in the Center for Aging and Translational Research. The certificate is designed for students:

1. To acquire basic foundational knowledge in the processes of aging, issues regarding aging, and the challenges of older adulthood.
2. To understand the interdisciplinary and integrative nature of gerontology.
3. To have practical experiences with older adults.

The certificate is open to all undergraduate students as well as non-degree seeking students with a bachelor's degree. Undergraduate students may earn the certificate in conjunction with any major. Those with a bachelor's degree may choose to complete the program to enhance their job performance or increase their marketability in the field of aging. Certificate completion will be posted on a student's official transcript and an official paper certificate will be sent to the student.

The program consists of 18 credits including:

1. Core Curriculum Courses (9 credits):
 - Soc Wrk 300: Aged to Perfection: An Introduction to the Study of Aging (3 credits)
 - Six credits from core curriculum courses in the following areas: biological, psychological, or social dimensions of aging. No more than three credits can be taken in one area. See the program coordinator for a current list.
2. Correlates/Electives (6 credits): Students select aging-related courses after consulting with the academic advisor for their program and the certificate coordinator. A maximum of 3 credits of approved independent study may be counted as an elective.
3. Practicum, Field Placement, Internship, or Service Learning (3 credits): Three credits must be in a practicum, field placement, internship, or service learning course working primarily with older adults or caregivers.

The student must maintain a 2.5 GPA for the 18 credits that meet certificate requirements.

For additional information, contact the program coordinator in the Center for Aging and Translational Research, catr@uwm.edu, (414) 229-7313.

Study of Complementary and Alternative Medicine (Available Online)

Complementary and Alternative Medicine (CAM; integrative healthcare) is an important component of the American healthcare system and supports a focus on health and wellness. The CAM modalities advocate for care that is patient-centered, healing oriented, emphasizes the therapeutic relationship, and uses therapeutic approaches originating from conventional and alternative medicine. Health and wellness, mind and body, and natural products are key areas of focus within this area of study. Healthcare professionals and future healthcare professionals, wellness- and fitness-oriented professionals and students, and interested individuals benefit from competency in understanding and critically evaluating the various practices considered as complementary and alternative or integrative.

The focus of this certificate program is an educational foundation regarding the broad use of complementary and integrative practices. Through coursework, learners explore and evaluate the most common forms of CAM, the history and cultural applications of CAM practices, evidence-based and ethical use of CAM, and the critical evaluation of CAM information and research. Completion provides basic scientific knowledge and skills to critically evaluate the current and future use of integrative healthcare.

NOTE:

Students must declare their intent to pursue this academic certificate. Professional advisors provide information and guidance to help students make informed educational decisions. Students are encouraged to meet with an advisor at least once each semester. To schedule an advising appointment, call the Office of Student Affairs appointment line at (414) 229-2758.

Course Requirements

Required Courses (12 Credits)

		Offered	Credits
BMS 260*	Introduction to Complementary and Alternative Medicine	F/S	3
Kin 365*	Mind-Body Integration and Interventions in Complementary Medicine	S	3
Kin 368*	Complementary Self-Help Strategies and Therapies in Rehabilitation	F	3
Kin 400*	Ethics and Values in the Health and Fitness Professions	F/S	3

Elective Courses (3 Credits)

		Offered	Credits
	General Focus		
BMS 245*	Client Diversity in Health Sciences: An Interdisciplinary Perspective	S	3

Commun 381*	Health Communication	F/S	3
Philos 244*	Ethical Issues in Healthcare	F/S	3
Psych 254	Physiological Psychology	F/S	3
Sociol 331	Sociology of Healthcare	F/S	3
Health and Wellness Focus			
BMS 232*	Introduction to Nutrition	F/S	3
Kin 241*	Why We Eat What We Eat	Varies	3
Kin 556	Multilevel Approaches to Changing Physical Activity and Eating Behaviors	S	3
Nutr 235	Introduction to Nutrition for Health Professionals	F	3
Nutr 245	Lifecycle Nutrition	S	3
Nutr 355	Modifying Nutrition and Eating Behavior	F	3
Active Learning (Experience) Focus			
Spt&Rec 296	Energy Vinyasa Yoga	F/S	1
Spt&Rec 298	Mind Body Awareness	F/S	2
Spt&Rec 298	Meditation with a Touch of Yoga	F/S	2
Spt&Rec 298	Running with the Mind of Meditation	F	2
Spt&Rec 298	The Art of Healing: Introduction to Self-Care Practices	Varies	1
Spt&Rec 298	Wellness: Conscious Living	F	2

Asterisk (*) denotes online offering available. Course offerings are subject to change. To earn the academic certificate, a minimum GPA of 2.5 is required in the 15 credits.

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College of Health Sciences, Online Programs

The College of Health Sciences is pleased to offer our Undergraduate students the opportunity to complete select degree programs and certificate programs in a fully online format. These programs include:

- BS, Biomedical Sciences, *Degree Completion Program in Health Sciences* (see the [Biomedical Sciences](#) section of this Catalog)
- BS, Biomedical Sciences, *Degree Completion Program in Diagnostic Imaging* (also available in Flexible Option) (see the [Biomedical Sciences](#) section of this Catalog)
- Certificate, *Study of Complementary and Alternative Medicine* (see the [Kinesiology](#) section of this Catalog)
- Certificate, *Health Care Informatics* (see the [Health Care Administration](#) section of this Catalog)
- Certificate, *Therapeutic Recreation* (see the [Occupational Studies](#) section of this Catalog)

Interested students should contact the College's Office of Student Affairs for curriculum plans and an opportunity to meet with our academic advisors, (414) 229-2758. The Office is located in NWQB, Room 6425.

<http://uwm.edu/healthsciences/>

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Occupational Studies

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The Department of Occupational Science and Technology (OST) offers a 120-credit undergraduate program in the area of occupational studies (OS). The OS undergraduate degree offers a flexible educational path. Combined with a blend of elective courses, a degree in the area of occupational studies may prepare the student to work in different health and human service settings. The OS degree combined with the Therapeutic Recreation (TR) courses offers a viable career path. There is a steady need for Recreational Therapists to assist in the care and prevention of age-related illness and injuries and provide opportunities for individuals with disabilities. It is recommended that students pursue employment under a Certified Therapeutic Recreation Specialist (CTRS) to be eligible to sit for the National Council for Therapeutic Recreation Certification (NCTRC) exam to obtain the professional credential. Additionally, graduates will be particularly well-prepared for further graduate study in occupational therapy and other disability-related disciplines. The efficient degree program is in concert with the University mission “to further academic and professional opportunities at all levels for women, minority, part-time, and financially or educationally disadvantaged students.” Students have the flexibility to complete the revised curriculum in a reasonable (4 year) period of time.

Admission:

Students interested in the OS undergraduate program are encouraged to contact the College of Health Sciences Office of Student Affairs. Students with bachelor's degrees in other areas are welcome and encouraged to contact Student Affairs for a credit evaluation.

Students Entering the OS Program Fall 2017

Admission to the Major:

Students will automatically be admitted to the major after completion of 57 credits. Within those 57 credits, students must have a B- or better in BIOSCI 202, OCCTHPY 151 and 201, PSYCH 101, and THERREC 202. At the time of admission to the major, students must declare at least one track that they will complete.

Upon admission to the occupational studies major, students must maintain a 2.75 cumulative GPA. Failure to attain a semester GPA of 2.75 or higher will result in the student being placed on academic probation for one semester. A second semester GPA below 2.75 will result in dismissal from the program. Any given course may be repeated only one time.

Degree Requirements:

Students must achieve the following to complete an undergraduate degree in occupational studies:

1. Satisfactory completion of 120 credits with a cumulative 2.75 GPA or better in all credits earned at UWM. Because a master's degree is required for professional practice as an occupational therapist or many other health-related fields, it is recommended that students maintain a GPA greater than 3.0 to be competitive with other Graduate School applicants;
2. Satisfactory completion of the University General Education Requirements; and
3. Completion of the last 30 credits in residence at UWM.

Course of Study:

The program is divided into foundation, core or required, and free elective courses. The undergraduate program requires 120 credits for graduation. All students admitted to the professional program must satisfy University-wide General Education Requirements (GER), (except second-degree candidates who are exempt). English and mathematics competency requirements must also be met.

With 120 credits required to graduate with a bachelor's degree in Occupational Studies, students need to take responsibility to complete all foundation and core courses, GER requirements, at least one program track, and sufficient free elective credits. A number of GER courses are part of the degree requirements. Recommended free electives and certificate/minor programs are listed to assist the student in creating an individualized area of study.

Requirements are subject to change as of the publication date of the catalog. Please check with the Office of Student Affairs for the most current information.

Course Number	Title	Credit
Foundation Courses		
Biological Sciences		
Bio Sci 202	Anatomy and Physiology I	4
Bio Sci 203	Anatomy and Physiology II (GER NS)	4
Communication		
Commun 103	Public Speaking	3
English		
English 205 or	Business Writing (OWC-B)	3
English 207	Health Science Writing (OWC-B)	3
Healthcare Administration		
HCA 203	Human Life Cycle (GER SS)	3
Kinesiology		
Kin 270	Statistics in Health Professions: Theory and Practice (QL-B)	3
Occupational Therapy		
OccThpy 151	Foundations of Scientific Inquiry	3
Physics		
Physics 120	General Physics (GER NS)	4
Physics 121	General Physics Lab (GER NS)	1
Psychology		
Psych 101	Introduction to Psychology (GER SS)	3
Psych 412	Psychopathology	3
Total Foundation		34
Program Core Courses		
OccThpy 201	Introduction to Occupational Science	3
OccThpy 202	Disability - Society and the Person (GER SS)	3
OccThpy 220	Gizmos and Gadgets: Introduction to Assistive Technology	3
OccThpy 245 or TherRec 245	Client Diversity: An Interdisciplinary Perspective (GER CD and SS)	3
OccThpy 260	Enhancing Health through Activity, Occupation, and Technology	3
OccThpy 320	Introduction to Ergonomics for the Health Professions	3
OccThpy 340	Evidence for Practice I: Applications of Biostatistics	3
OccThpy 341	Evidence for Practice II: Appraising Evidence	3

OccThpy 401	Overview of Medical Conditions	3
OccThpy 530	Contemporary Issues in Occupational Studies	3
Total Core		30
Tracks (Complete at least one)		
Disability and Occupation		
TherRec 202	Disability: Society and the Person (GER SS)	3
OccThpy 250	Concepts of Time and Occupation	3
TherRec 303	Inclusive and Disability Programs in the Community	3
OccThpy 315	Group Process in Rehabilitation	3
OccThpy 401	Overview of Medical Conditions in Occupation	3
OccThpy 505	Work and Disability	3
OccThpy 625	Design and Disability	3
Track Credits		21
Applications of Assistive Technology		
OccThpy 220	Gizmos and Gadgets: Introduction to Assistive Technology	3
OccThpy 250	Concepts of Time and Occupation	3
OccThpy 420	Principles of Human Factors and Usability	3
OccThpy 595	Vision I: Introduction to Low Vision and Visual Impairment (U/G)	3
OccThpy 593	Introduction to Biomedical and Rehabilitation Instrumentation (U/G)	3
OccThpy 521	Essentials of Assistive and Rehabilitative Technology	3
OccThpy 625	Design and Disability (U/G)	3
Track Credits		21
Therapeutic Recreation		
TherRec 103	Introduction to Leisure	3
TherRec 203	Therapeutic Recreation Process	3
TherRec 300	Therapeutic Recreation Assessment and Documentation	4
TherRec 308	Therapeutic Recreation in Physical Rehabilitation and Behavioral Health	4
TherRec 310	Facilitation Techniques in Therapeutic Recreation	4
TherRec 400	Issues and Trends in Therapeutic Recreation	3
Track Credits		21
Free electives from campus and GER courses (minimum of 9 cr at 400 level or higher) See below		35-41
Total Credits Undergraduate Degree		120
Recommended Free Electives (not inclusive):		
College of Health Sciences		
BMS 260	Introduction to Complementary and Alternative Medicine	3
COMSDIS 250	Interprofessional Communication in the Health Sciences	3
HCA 220	Leading Healthcare Professionals	
HS 105	Survey of Health Professions	3
HSÁ 222	Language of Medicine	3
KIN 241	Why We Eat What We Eat: An Ecological Approach	3

NUTR 235	Introduction to Nutrition for Health Professionals	3
SPT&REC 112, 113	Yoga I and Yoga II	1
SPT&REC 298	Meditation, Relaxation and Wellness	1-3
UWM		
ANTHRO 101	Introduction to Anthropology: Human Origins	3
BME 101	Fundamentals of Biomedical Engineering	3
BUS ADM 200	Business and Society	3
EXCEDUC 300	Exceptional Individual	3
EXCEDUC 330	Deaf History	3
EXCEDUC 352	American Deaf Culture	3
MATH 211	Survey in Calculus and Analytical Geometry	4
PH 101	Introduction to Public Health	3
Psych 205	Personality	3
Psych 254	Physiological Psychology	3
Psych 260	Child Psychology	3
Psych 433	Neuropsychology	3
Sociol 101	Introduction to Sociology	3
Sociol 331	Sociology of Health & Care	3
Sociol 341	Sociology of Deviant Behavior	3
Theatre 111	Theatre Games	3
Theatre 260	Storytelling	3

Recommended Minors/Certificates (not inclusive):

College of Health Sciences

Certificate in the Study of Complementary and Alternative Medicine (CAM)	5 total courses	15
Certificate in Healthy Aging	6 total courses	18
Minor in Health Care Administration	6 total courses	17
Minor in Kinesiology	8 total courses	18
Minor in Nutritional Sciences	7 courses	21

UWM

College of Letters and Science

Certificate in Childhood and Adolescence Studies	6 total courses	18
Certificate in Global Health	7 courses	21
Certificate in Spanish for Health Professionals	6 courses	18
Minor in Anthropology	6 courses	18
Minor in Communication	6 courses	18
Minor in Psychology	6 courses	18
Minor in Sociology	6 courses	18

Lubar School of Business

Minor in Business	Varies depending on student plan	29
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School of Education

Autism Spectrum Disorders	5-6 total courses	15-18
Community Engagement	6-7 courses	21

Students entering the OS Program prior to Fall 2017

Admission to the Major:

Upon admission to the occupational studies major, students must maintain a 2.75 cumulative GPA. Students may repeat a departmental required course only one time.

Degree Requirements:

Students must achieve the following to complete an undergraduate degree in occupational studies:

1. Satisfactory completion of 120 credits with a cumulative 2.75 GPA or better in all credits earned at UWM. Because a master's degree is required for professional practice as an occupational therapist, it is recommended that students maintain a GPA greater than 3.0 to be competitive with other Graduate School applicants;
2. Satisfactory completion of the University General Education Requirements; and
3. Completion of the last 30 credits in residence at UWM.

Course of Study:

The program is divided into foundation, core or required, and elective courses. The undergraduate program requires 120 credits for graduation. All students, except second degree candidates, admitted to the professional program must satisfy University-wide General Education Requirements (GER). English and mathematics competency requirements must also be met.

With 120 credits required to graduate with a bachelor's degree in Occupational Studies, students need to take responsibility to complete all required courses, GER requirements, and elective credits. A number of GER courses are part of the degree requirements. Some GER courses are available within the Occupational Science and Technology Department programs. See listing below for delineation of GER courses.

Requirements are subject to change. Please check with the Office of Student Affairs for the most current information.

Course Number	Title	Credit
Foundation Courses		
Biological Sciences		
Bio Sci 202	Anatomy and Physiology I	4
Bio Sci 203	Anatomy and Physiology II (GER NS)	4
Biomedical Sciences		
BMS 260	Introduction to Complementary and Alternative Medicine (GER SS)	3
Communication		
Commun 103	Public Speaking	3
English		
English 205	Business Writing (OWC-B)	3
English 207	Health Science Writing (OWC-B)	3
Healthcare Administration		
HCA 203	Human Life Cycle (GER SS)	3
Health Sciences		
HS 105	Survey of Health Professions	3
HS 222	Language of Medicine	3
Kinesiology		
Kin 270	Statistics in Health Professions: Theory and Practice (QL-B)	3
Mathematical Sciences		
Math 211	Survey in Calculus and Analytic Geometry (QL-B)	4
Physics		
Physics 120	General Physics (GER NS)	4
Physics 121	General Physics Lab (GER NS)	1
Psychology		
Psych 101	Introduction to Psychology (GER SS)	3
Psych 205	Personality (GER SS)	3
Psych 412	Psychopathology	3

Total Foundation		47
Program Core Courses		
OccThpy 151	Foundations of Scientific Inquiry	3
OccThpy 201	Introduction to Occupational Science and Technology	3
OccThpy 245 or TherRec 245	Client Diversity: An Interdisciplinary Perspective (GER CD and SS)	3
OccThpy 260	Enhancing Health Through Activity, Occupation, and Technology	3
OccThpy 401	Overview of Medical Conditions	3
OccThpy 315	Group Process in Rehabilitation	3
OccThpy 340	Evidence for Practice I: Applications of Biostatistics	3
OccThpy 341	Evidence for Practice II: Appraising Evidence	3
Total Core		24
Department Elective Courses		
OccThpy 593	Introduction to Biomedical and Rehabilitation Instrumentation (U/G)	3
OccThpy 595	Vision I: Introduction to Low Vision and Visual Impairment (U/G)	3
OccThpy 625	Design and Disability (U/G)	3
TherRec 103	Introduction to Leisure (GER HU)	3
TherRec 203	Therapeutic Recreation Process	3
TherRec 300	Therapeutic Recreation Assessment and Documentation	4
TherRec 303	Inclusive and Disability Programs in the Community	3
TherRec 308	Therapeutic Recreation in Physical Rehabilitation and Behavioral Health	4
TherRec 310	Facilitation Techniques in Therapeutic Recreation	4
TherRec 400	Issues and Trends in Therapeutic Recreation	3
Total Department Electives		Minimum 21
Free Electives from Campus and GER Courses		28
Total Credits Undergraduate Degree		120

Courses

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Therapeutic Recreation

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Certificate in Therapeutic Recreation

Therapeutic Recreation (TR) is the provision of treatment services and recreation services to persons with illnesses or disabling conditions. The primary purposes of treatment services (also called recreation therapy) are to restore, remediate, or rehabilitate in order to improve functioning and independence. The primary purpose of recreation services is to provide recreation and leisure resources and opportunities to help improve health and well-being and enhance quality of life.

Therapeutic Recreation Specialists may work in hospitals, residential care, long-term care, schools, and a variety of community settings. Individuals served include people with mental, physical, or emotional disabilities. A variety of recreation/leisure activities are employed as tools to help those served attain independence and a high quality of life.

According to the U.S. Department of Labor, "The rapidly growing number of older adults is expected to spur job growth for recreational therapy professionals and paraprofessionals in assisted-living facilities, adult daycare programs, and other social assistance agencies. Continued growth also is expected in community residential care facilities, as well as daycare programs for individuals with disabilities." Given the projected need for recreation specialists, the College of Health Sciences at UWM has created a certificate program in Therapeutic Recreation (TR) available to a broad range of individuals, including students and TR and other human service professionals in the community. In addition, individuals who are certified with the National Council for Therapeutic Recreation Certification (NCTRC) may wish to complete certificate coursework to comply with continuing education requirements.

The certificate focuses on the development of knowledge and acquisition of skills and abilities in the areas of health and TR. Courses present the concepts of health, wellness, disease, and illness in relation to quality of life for individuals with disabilities. Specific skill development in the areas of assessment and facilitation techniques is also taught and complemented with an ongoing focus on emerging issues in the field of therapeutic recreation. In preparation for the nationally recognized certification examination, coursework covers topic areas included in the NCTRC Job Analysis categories. The program may be taken by UWM undergraduates concurrently with their chosen major, or as a post-baccalaureate educational certificate program.

Five courses are required to successfully complete the totally online Certificate in Therapeutic Recreation. A minimum

cumulative grade point average of 2.5 must be maintained on all the required coursework.

TR Certificate Coursework

Select one introductory Course:

TherRec 103	Introduction to Leisure (F/S)	3
TherRec 202	Disability: Society and the Person (F)	3
TherRec 203	TR Process* (SU/F)	3

Sect three Intervention courses:

TherRec 400	Therapeutic Recreation Assessment and Documentation* (S)	4
TherRec 303	Inclusive and Disability Programs in the Community (S)	3
TherRec 308	Therapeutic Recreation in Physical Rehabilitation and Behavioral Health* (F)	4
TherRec 310	Facilitation Techniques in Therapeutic Recreation* (S)	4

Capstone course:

TherRec 400	Issues and Trends in Therapeutic Recreation* (SU/F)	3
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Total: 17-18 Credits

* Required for students seeking the credential as a Certified Therapeutic Recreation Specialist (CTRS) with the National Council for Therapeutic Recreation Certification (NCTRC).

F, S, SU (fall, spring, summer) refers to the semesters in which courses are taught

Related Programs and Degrees

Students interested in pursuing a career in Therapeutic Recreation may wish to examine one of the following degree programs at UWM:

Bachelor of Art

Psychology
Sociology

Bachelor of Science

Biological Sciences
Nursing
Occupational Studies
Social Work

Notes:

- Completion of this certificate program partially fulfills the academic coursework requirements for the NCTRC Certified Therapeutic Recreation Specialist credential. Additional requirements are needed to fully qualify for the credential.
- Students interested in obtaining NCTRC certification are encouraged to visit the NCTRC website at www.nctrc.org.

For more information about the certificate program, contact Patricia Thomas, TR Certificate Coordinator, at (414) 229-2507 or pthomas@uwm.edu.

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Africology

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- [Course of Study: Major](#)
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Africology is the discipline that studies the cultures, societies, and political economies of people of African descent in the United States and throughout the world. Africology uses both quantitative and qualitative methods of inquiry to describe, explain, evaluate, and predict the lived experiences of people of African descent. The major in Africology thus educates students in the best traditions of the liberal arts and sciences, providing them with a sound knowledge of the past, present, and future roles of people of African descent in structuring life in diverse societies. The department's courses are designed to satisfy the needs of students who desire to specialize in Africology or whose career objectives make it desirable to have knowledge of the people of African descent in the United States and throughout the world.

Students thinking of majoring or minoring in Africology are encouraged to contact the department for assistance, uwm.edu/africology/contact-us

Course of Study: Major

All majors must be accepted by the department, and their programs must be arranged with a departmental advisor. To be retained as majors, students must maintain a GPA of 2.500 or better in Africology courses attempted at UWM. In addition, students must attain a 2.500 GPA in all major courses attempted, including any transfer work. A total of 36 credits is required to complete the major; 15 credits at the 300 level or above must be taken in residence at UWM.

Prospective majors must take the following courses:

Africol 215	Introduction to Black Social and Cultural Traditions	3
Africol 220	Introduction to Statistics in Africology (With departmental approval, the statistics requirement may be satisfied with another statistics course.)	3
Africol 222	Research Methods in Africology (With departmental approval, the research methods requirement may be satisfied with another methods course.)	3
Africol 228	Introduction to Black Political Economy	3

Africology 100 is highly recommended. Though not required, 100-level courses prepare students for higher-level Africology courses. No more than 6 credits of 100-level courses can count toward the major.

An additional 24 credits are required to complete the major, 15 of which must be at the 300 level or above. Majors

specialize in one of two options: political economy (Option A) or culture and society (Option B). At least 12 of the remaining 24 credits must be completed in the chosen option. Up to 6 credits may be taken in the other option, and up to 6 credits may be taken at the 100 level. To satisfy the College of Letters and Science research requirement, students must complete Africol 300, 319, 320, 321, 326, 329, 341, 344, 352, 372, or 414; or, with departmental approval, students can complete 3 credits in Africol 699, "Independent Study," that involves completion of a research experience designed according to departmental standards.

Majors specialize in one of two options: political economy or culture and society.

Option A: Political Economy.

Africol 235 ¹	African Americans and South Africa	3
Africol 300	Urban Violence	3
Africol 321	Black Workers in the 21st Century	3
Africol 322	Order and Disorder: The Quest for Social Justice	3
Africol 323	Capitalism, Socialism, Nationalism, and Fascism	3
Africol 325	Africa China Relations	3
Africol 329	Economic Growth and Sustainable Development in Africa	3
Africol 334 ¹	Survey of Black American and Black Brazilian Societies	3
Africol 341	Black Politics and City Government	3
Africol 344	Global Black Social Movements	3
Africol 361	Philosophy and Thought in Africa and the Diaspora	3
Africol 362	Philosophy and Thought in Africa and the Diaspora II	3
Africol 381 ¹	Honors Seminar: (subtitle)	3H
Africol 411 ¹	Change in African-American Communities	3
Africol 412	Blacks and the United States Constitution	3
Africol 416	Race and Social Justice in the United States	3
Africol 417	Race, Class, and Gender in Southern Africa	3
Africol 418	Race, Class, and Gender in Latin America and the Caribbean	3
Africol 420	The Political Economy of Slavery	3
Africol 489 ¹	Internship in Africology, Upper Division	1-6
Africol 565 ¹	Selected Texts/Topics in Africology: (subtitle)	3
Africol 699 ¹	Independent Study	1-6

Option B: Culture and Society.

Africol 205	The Poetry of African, African-American, and Caribbean Writers	3
Africol 210	The African-American Novel	3
Africol 232	Survey of African Societies and Cultures	3
Africol 235 ¹	African Americans and South Africa	3
Africol 250	Black Women and White Women in the Contemporary United States	3
Africol 261	Survey of African-American Political Philosophy	3
Africol 265	Psychological Effects of Racism	3
Africol 311	African Religious Thought and Social Organizations	3
Africol 312	The Church in African-American Life	3
Africol 314	The School in African-American Life	3
Africol 319	African American Urban History	3
Africol 320	Black Cultures in Latin America and the Caribbean	3
Africol 334 ¹	Survey of Black American and Black Brazilian Societies	3
Africol 350	The Black Family	3

Africol 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
Africol 352	Extended Families in Black Societies	3
Africol 369	Black Images and Mass Media	3
Africol 370	Forms of Black Expression	3
Africol 372	African-American Literary Movements: The Harlem Renaissance	3
Africol 381 ¹	Honors Seminar: (subtitle)	3H
Africol 411 ¹	Change in African-American Communities	3
Africol 414	The Black Woman in America, Africa, and the Caribbean	3
Africol 450	Cultural Transmissions: Black Africa and Black America	3
Africol 451	Rites of Passage in Black Societies	3
Africol 489 ¹	Internship in Africology, Upper Division	1-6
Africol 565 ¹	Selected Texts/Topics in Africology: (subtitle)	3
Africol 699 ¹	Independent Study	1-6

¹ These courses may count as either Option A or B.

Course of Study: Minor

The purpose of the minor is to expose students to a range of concepts, theories, and phenomena that ground the discipline of Africology. Students are required to take 18 credits, 12 of which must be completed at or above the 300 level. Up to 6 credits at the 100 level may count toward the minor. Nine credits at the 300 level or above must be taken in residence at UWM. The College of Letters and Science requires that students attain at least a 2.500 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Courses

[Africology \(AFRICOL\)](#)

Cross-listed Courses

The following courses offered by other departments may be used to satisfy the requirements of the undergraduate major or minor in Africology.

English 381	World Literatures Written in English: “African Fiction” subtitle
English 517	Studies in African-American Literature: (subtitle)
English 631	Seminar in African-American Literature: (subtitle)
Film 301	Conversations with Filmmakers and Critics: “Radical Black Film” subtitle
Portugs 225	Understanding Brazil: “African Presence in Brazilian Culture and Literature” subtitle

Faculty and Staff

Osei-Mensah Aborampah, Prof. Emeritus, PhD

Peter Akubeze

Senior Information Processing Consultant

Patrick Bellegarde-Smith, Prof. Emeritus, PhD

Abera Gelan, Assoc. Prof., PhD

University of Wisconsin-Milwaukee

Joyce F. Kirk, Assoc. Prof. Emerita, PhD

Nolan Kopkin, Asst. Prof., PhD

Cornell University

Doreatha D. Mbalia, Prof. Emerita, PhD

Harwood McClerking, Asst. Prof., PhD

University of Michigan

Gladys Mitchell-Walthour, Asst. Prof., PhD

University of Chicago

Ermitte Saint Jacques, Asst. Prof., PhD

University of Florida

Jeffrey Sommers, Prof., PhD, Chair

Northeastern University

Anika Wilson, Assoc. Prof., PhD

University of Pennsylvania

Erin N. Winkler, Assoc. Prof., PhD

University of California, Berkeley

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College of Letters and Science

American Indian Studies

Michael Wilson, *Associate Professor of English*
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The American Indian Studies Program offers an undergraduate major through the Committee Interdisciplinary Major and an undergraduate certificate in American Indian Studies. For information on the American Indian Studies Certificate, see the L&S Certificate Programs section of this catalog.

The major in American Indian Studies provides the opportunity for students to explore scholarship on American Indian peoples with an interdisciplinary lens. The curriculum develops the depth of students' experience with the methodologies and sources used in the field of American Indian Studies. Although interdisciplinary, American Indian Studies encompasses a distinct body of knowledge. Students majoring in American Indian Studies can select from a wide variety of courses organized under three areas: Culture and Creative Expression; History, Law, and Government; and Education and Community Policy Studies.

The major curriculum is developed around a core of 15 credits that includes an introduction to the field, two focus courses, and six credits in research and practice. The focus courses are designed to ensure that students accomplish study in major areas related to the experience of American Indian tribal societies and communities. Beyond that, students are encouraged to shape their own programs to meet individual needs and interests through the required field/research capstone project and the selection of elective courses. The capstone research topic will be focused on a student's particular interest area and will begin in the junior year. The project will be approved and supervised by a faculty member who will guide the student's research, service project, or applied project through to formal evaluation by a committee of faculty members. A formal field project paper will be presented to the committee.

Course of Study: Major

The CIM submajor in American Indian Studies requires completion of 33 credits in approved American Indian Studies and American Indian Studies-related courses. Of these 33 credits, 15 credits in advanced-level courses numbered (300 and above) must be completed in residence at UWM. The College of Letters and Science requires that students earn at least a 2.500 GPA on all credits attempted for the major at UWM. In addition, a 2.500 GPA on all major credits, including any transfer work, is required.

Required Core Courses, 6 cr

Introduction, 3 cr

AIS 101 Introduction to American Indian Studies 3

Research and Practice, 3 cr

AIS 600 Field Project – Capstone Research or Applied Project 3

Elective Courses, 27 cr

Students must select from the following jointly offered or cross-listed courses:

American Indian Studies Courses

AIS 105 Ethnobotany: Plants in Anishinaabe Culture 3

AIS 106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy 3

AIS 151 First Semester Anishinaabemowin (Ojibwe) 4

AIS 152	Second Semester Anishinaabemowin (Ojibwe)	4
AIS 203	Western Great Lakes Indian Community Life of the Past	3
AIS 251	Third Semester Anishinaabemowin (Ojibwe)	4
AIS 252	Fourth Semester Anishinaabemowin (Ojibwe)	4
AIS 360	Ezhi-Kinomaageying: Anishinaabe Curriculum	3
AIS 370	Anishinaabebiiige: Archival to Contemporary Writing	3

Jointly Offered Courses

AIS/Hist 262	American Indian History to 1887	3
AIS/Hist 263	American Indian History 1887 to the Present	3
AIS/English 276	Introduction to American Indian Literature	3
AIS/Anthro 308	Archaeology of North America	3
AIS/Anthro 309	Archaeology of Central and South America	3
AIS/Anthro 310	Archaeology of Middle America	3
AIS/Anthro 311	The World of the Ancient Maya	3
AIS/Anthro 314	American Indian Societies and Cultures	3
AIS/Anthro 315	Peoples and Cultures of Mexico and Central America	3
AIS/Sociol 320	Social Change in American Indian Societies	3
AIS/Sociol 321	Contemporary Issues of the American Indian	3
AIS/Anthro 362	Globalization and Language Extinction	3
AIS/English 372	Survey of American Indian Literature	3
AIS/Hist 473	Wisconsin Indian History	3
AIS/Hist 474	Topics in American Indian History	3
AIS/Hist 475	American Indian History, Law, and Government	3
AIS/English 520	Studies in American Indian Literature	3
AIS/English 632	Seminar in American Indian Literature, U/G	3

Cross-Listed Courses

Anthro 213	American Indian Peoples of Wisconsin	3
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FACULTY

Kimberly M. Blaeser, Prof., PhD

University of Notre Dame

Margaret Noodin, Asst. Prof., PhD

University of Minnesota

Courses

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Anthropology is the study of human beings and their cultures, past and present, throughout the world. The discipline examines and compares the world's culture patterns in all their variety and studies humans as biological organisms. Through archaeology, it attempts to shed light on the long history and evolution of humans and their ways of life. In these pursuits, anthropologists favor comparative and evolutionary perspectives. As a result, anthropological studies are wide-ranging with respect to topic and far-reaching with respect to both space and time.

A major in anthropology serves the needs of at least three kinds of students: 1) those who seek, as part of their liberal arts education, to gain a broad understanding of human behavior, 2) those whose professional or career interests require insight into otherwise unfamiliar peoples and cultures, and 3) those who wish to specialize in anthropology or one of its subfields.

A major in anthropology provides a useful and relevant foundation for many kinds of jobs and career interests. These include numerous types of positions abroad working with people of varied cultural backgrounds, such as community development work in the international field, foreign diplomatic service, international business, and international exchange programs. They also include positions in museum work, the communications field, community cultural projects, urban planning, and other social professions. There are opportunities for students majoring in anthropology to develop skills in conservation archaeology and environmental impact assessment.

Course of Study: Major

Students majoring in anthropology can select from a wide variety of courses organized under four subfields: cultural anthropology, archaeology, physical (or biological) anthropology, and linguistic anthropology. Although majors take some coursework in each of the four subfields, they are encouraged to shape their own programs to meet individual needs and interests.

The major in anthropology requires 36 credits within the department, including Anthro 101, 102, 103, 105 (360), and one course from each of the five curriculum categories below. At least 15 credits in advanced-level courses (numbered 300 or above) must be taken in residence at UWM. Courses marked with an asterisk (*) may satisfy requirements in more than one category. However, no single course may count for more than two requirements.

The College requires that all students complete a research experience in their majors. Anthropology majors will complete the research requirement in the context of one of the following courses:

Anthro 401	Primate Populations*
Anthro 497	Study Abroad: "Peru, Past and Present - Archaeological Perspective"

	subtitle*
Anthro 525	Zooarchaeology: Analysis of Faunal Remains*
Anthro 535	Analysis of Archaeological Ceramics*
Anthro 560	Introduction to Research Methods in Anthropology*
Anthro 566	Archaeological Analysis and Report Preparation: (subtitle)*

Finally, Anthro 460, "Anthropology Theory," which is the program's capstone course, is required for all students majoring in anthropology. Only seniors may enroll, and it is recommended that they do so after having completed all other anthropology course requirements.

Students majoring in anthropology must earn a GPA of 2.500 or better in anthropology courses attempted at UWM. In addition, the College requires that students attain a 2.500 or better GPA in all anthropology courses attempted, including any transfer work.

CURRICULUM CATEGORIES

Physical Anthropology

Anthro 301	Human Evolution and Variation	4
Anthro 401	Primate Populations*	3
Anthro 402	Primate Evolution	3
Anthro 403	The Human Skeleton	3
Anthro 404	Seminar in Human Evolutionary Physiology	3
Anthro 405	Forensic Anthropology	3
Anthro 406	Evolutionary Biology and Human Diseases	3
Anthro 407	Neuroanthropology	3
Anthro 408	Hormones and Behavior	3
Anthro 651	Biology of the Primates	3

Archaeology

Anthro 304	Violence and Warfare in Prehistory	3
Anthro 305	The Celtic World	3
Anthro 306	European Archaeology	3
Anthro 307	World Archaeology: Foundations of Civilization	3
Anthro 308	Archaeology of North America	3
Anthro 309	Archaeology of Central and South America	3
Anthro 310	Archaeology of Middle America	3
Anthro 311	The World of the Ancient Maya	3
Anthro 420	Power and Ideology in Archaeology	3
Anthro 421	Cities in the Ancient World	3
Anthro 424	Ethnoarchaeology	3
Anthro 425	Hunter-Gatherer Lifeways: Past and Present	3
Anthro 465	Historic Preservation in Archaeology	3
Anthro 466	Historical Archaeology	3
Anthro 501	Archaeology of Death	3
Anthro 502	Lithic Analysis: Stone Tools and Human Behavior	3
Anthro 525	Zooarchaeology: Analysis of Faunal Remains*	3
Anthro 535	Analysis of Archaeological Ceramics*	3
Anthro 565	Seminar in Regional Archaeology: (subtitle)	3
Anthro 636	Geochronology	3

Ethnology and Related Sociocultural Subjects

Anthro 302	Anthropology and Popular Culture	3
Anthro 314	American Indian Societies and Cultures	3
Anthro 315	Peoples and Cultures of Mexico and Central America	3
Anthro 320	Peoples and Cultures of Africa	3

Anthro 322	Europe in Anthropological Perspective	3
Anthro 325	Japanese Culture and Society	3
Anthro 326	Peoples and Cultures of South Asia	3
Anthro 328	Comparative Studies of Music, Race, and Gender in Nationalism	3
Anthro 335	American Indians of the Southeast	3
Anthro 340	Cultures of Online Games and Virtual Worlds	3
Anthro 349	Seminar in Ethnography and Cultural Processes	3
Anthro 351	Anthropological Theories of Religion	3
Anthro 354	Anthropology of Art	3
Anthro 355	Globalization, Culture, and Environment	3
Anthro 400	Human Sociobiology	3
Anthro 431	Urban Anthropology	3
Anthro 440	Medical Anthropology	3
Anthro 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3
Anthro 442	Humanitarianism in Global Perspective	3
Anthro 443	Medicine and Pharmaceuticals in the Global Age	3
Anthro 445	Psychological Anthropology	3
Anthro 446	The Child in Different Cultures	3
Anthro 447	The Global Politics of Human Rights	3
Anthro 448	Cultural and Human Ecology	3
Anthro 449	The Human Economy	3
Anthro 450	Political Anthropology	3
Anthro 540	Applications of Anthropology	3
Anthro 543	Cross-Cultural Study of Religion	3
Anthro 544	Religious Giving in Anthropological Perspective	3
Linguistic Anthropology		
Anthro 361	Applications in Linguistic Anthropology	3
Anthro 362	System Failure: Globalization and Language Extinction	3
Anthro 366	Seminar in Aspects of Linguistic Anthropology	3
Anthro 570	Issues in Bilingualism	3
Methods Courses		
Anthro 497	Study Abroad: “Peru, Past and Present – Archaeological Perspective” subtitle*	3
Anthro 525	Zooarchaeology: Analysis of Faunal Remains*	3
Anthro 535	Analysis of Archaeological Ceramics*	3
Anthro 560	Introduction to Research Methods in Anthropology*	3
Anthro 561	Techniques and Problems in Ethnography	3
Anthro 562	Techniques and Problems in Archaeology	3
Anthro 566	Archaeological Analysis and Report Preparation: (subtitle)*	3 or 6
Anthro 567	Archaeological Field School	3 or 6
Anthro 568	Introduction to Anthropological Statistics	3

Course of Study: Minor

The anthropology minor requires 18 credits within the department, including Anthro 101, 102, and one course from each of the following curriculum categories: physical anthropology, archaeology, ethnology, and linguistics. Waiver or substitution in any of these categories may be approved, in some circumstances, by the assistant to the chair for undergraduate affairs in consultation with the student's advisor. Students must earn 9 credits in advanced-level courses (numbered 300 or above) taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Related Programs

For the teaching major in the broad field of social studies, see the School of Education section. A related interdepartmental major is the international studies major. Also related are the certificate programs in American Indian Studies and in Latin American and Caribbean Studies.

Courses

[Anthropology \(ANTHRO\)](#)

Faculty

Cheryl Ajirotutu, Prof. Emerita, PhD

Fred Anapol, Prof., PhD

State University of New York at Stony Brook

Kalman Applbaum, Prof., PhD

Harvard University

Bettina Arnold, Prof., PhD

Harvard University

Erica Bornstein, Assoc. Prof., PhD

University of California, Irvine

Paul Brodwin, Prof., PhD

Harvard University

Benjamin Campbell, Assoc. Prof., PhD

Harvard University

J. Patrick Gray, Prof., PhD

University of Colorado

Sidney M. Greenfield, Prof. Emeritus, PhD

Tracey Heatherington, Assoc. Prof., PhD

Harvard University

Jean Hudson, Assoc. Prof., PhD

University of California, Santa Barbara

Robert J. Jeske, Prof., PhD

Northwestern University

Ingrid Jordt, Assoc. Prof., PhD

Harvard University

Donald Kurtz, Prof. Emeritus, PhD

Thomas Malaby, Assoc. Prof., PhD, Chair
Harvard University

Bernard Perley, Assoc. Prof., PhD
Harvard University

R. Jason Sherman, Assoc. Prof., PhD
University of Michigan - Ann Arbor

Neil C. Tappen, Prof. Emeritus, PhD

Trudy R. Turner, Prof., PhD
New York University

William Washabaugh, Prof. Emeritus, PhD

Edward Wellin, Prof. Emeritus, PhD

W. Warner Wood, Assoc. Prof., PhD
University of Illinois at Champaign-Urbana

Associate Scientists

John D. Richards, PhD
University of Wisconsin-Milwaukee

Patricia Richards, PhD
University of Wisconsin-Milwaukee

Research Specialist

Brian Nicholls, MS
University of Wisconsin-Milwaukee

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The history of art is the study of humanity's efforts to express its ideas, experiences, and beliefs in visual and graphic form: in painting, sculpture, architecture, graphic art, design, film, and performance arts. It also is the historical study of the attempt to reorder the physical environment through urban and architectural planning. Courses in the Department of Art History are designed to train students to deal with such studies in the context of the cultural, social, political, economic, and religious climates of different historical eras, as well as to foster an understanding of the specific development, materials, theory, and parameters of art. Internships and colloquia in art museum studies afford qualified students more specialized experience in connoisseurship, curatorial practices, and arts management.

Questions concerning art history requirements, possible substitutions, and other related matters should be directed to the department's Director of Undergraduate Studies or the Art History Department Office, Mitchell Hall, Room 151, (414) 229-4330.

Course of Study: Major

The major in art history and criticism consists of 30 credits in the department. All majors must complete 6 credits in ArtHist 101 and 102, and they are advised strongly to take 3 credits in ArtHist 104 or 105. In addition, to satisfy the L&S research requirement, all majors must complete 3 credits in the art history seminar (ArtHist 501) during their junior or senior year with permission from the instructor.

Beyond this, each student must select one of two major options: option A, the standard major, or option B, the broad major. A minimum 2.500 GPA is required in all ArtHist courses attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. Fifteen credits at the 300 level or above must be taken in residence at UWM.

Option A: Standard Major. This option is recommended for students who are interested in obtaining a well-balanced approach to the study of art history. It provides an introduction to most major areas of inquiry in art history and to different scholarly approaches to study in this field. It is recommended especially for students who wish to continue into graduate studies in art history and to pursue careers in college teaching or museum or gallery work.

1. Distribution requirement, 15 credits. At least 3 credits each in five of the following areas: Ancient, Medieval, Renaissance-Baroque, 19th-20th Century, Non-Western, and Film. At least 9 of the 15 credits must be at the 300 level or above.
2. Electives, 9 credits. At least 6 of these 9 credits must be at the 300 level or above.
3. Language requirement. Reading ability in at least one foreign language, preferably French or German, to be

demonstrated either by taking two years of college-level language with grades of B or better or by taking and passing a reading exam administered by the Art History Department. Students planning to go to graduate school are advised that most graduate schools require PhD candidates to demonstrate reading knowledge of both French and German. Other languages such as Italian, Spanish, Dutch, Greek, or Latin also may be required, depending on a student's field of specialization.

Option B: Broad Major. This option is designed for students who wish to tailor their own programs of study to pursue specific individual interests in art history, to tie in with studies in other fields (e.g., double majors), or for personal enrichment. It requires at least 24 credits of the student's choice in ArtHist courses beyond 101 and 102, of which at least 15 must be at the 300 level or above.

Course of Study: Minor

The minor in art history must be declared between completing 15 and 75 degree credits. It requires at least 18 credits in the department, including ArtHist 101 and 102. Nine of the remaining 12 credits must be taken at the 300 level or above in residence at UWM. A minimum 2.500 GPA must be maintained in all ArtHist courses attempted at UWM. In addition, students must attain a 2.500 GPA in all minor credits attempted, including any transfer work.

Courses in Other Fields

It is recommended strongly that all students majoring in art history and criticism acquire a broad liberal arts education, including strong competence in English composition, a knowledge of one or more foreign languages, and at least 12 credits of college-level history. Students also are encouraged to take work in related subjects such as art studio, classics, anthropology, history of music, literature, and philosophy.

Honors in the Major

Art history majors who meet the following criteria are awarded honors in the major:

1. 3.500 cumulative GPA in all UWM graded credits;
2. 3.500 GPA in all credits that count toward the major;
3. 3.500 GPA in all advanced credits that count toward the major;
4. Completion of one of the following:
 - Six credits of French, German, Italian, or Spanish at the 200 level or above with grades of B or better (equivalent level coursework in another language may be substituted with faculty approval); or
 - The Art History Department's French or German translation exam with passing grade.
5. Completion of ArtHist 501: Colloquium in Method and Theory

Courses

[Art History \(ARTHIST\)](#)

Faculty

Derek Counts, Prof., PhD, Chair
Brown University

Jennifer Johung, Assoc. Prof., PhD
University of California, Berkeley

Richard Leson, Assoc. Prof., PhD
The Johns Hopkins University

Tanya Tiffany, Assoc. Prof., PhD
The Johns Hopkins University

Ying Wang, Assoc. Prof., PhD
University of Pittsburgh

Kay Wells, Asst. Prof., PhD
University of Southern California

Linda Brazeau, Lect., PhD
City University of New York

Emeriti

Kenneth P. Bendiner, Prof. Emeritus, PhD

Nancy Hubbard, Assoc. Prof. Emerita, PhD

Patricia Mellencamp, Distinguished Prof. Emerita, MA

Paul E. Sprague, Prof. Emeritus, PhD

Jane C. Waldbaum, Prof. Emerita, PhD

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Biological Sciences

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Biology is the study of life. Biologists analyze organisms at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions of organisms with each other and with the environment using behavior, morphology, and genetics. These studies have applications across many areas including agriculture, medicine, and the environment.

Majors in biology are needed in areas such as farming, food processing, bioremediation, as well as the biomedical and biotechnology fields. A biology major also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, in addition to advanced studies in any life science field.

The Department offers two majors: Biological Sciences and Microbiology. The Biological Sciences major has two options: the Standard option and the Cell and Molecular Biology option. The Microbiology major has two options: the Standard option and the Industrial Fermentation and Biotechnology option. Both majors and options are excellent preparation for a career in a life science field. The multiple offerings allow students a broad choice in their studies.

Course of Study: Biological Sciences Major

The Biological Sciences major requires a minimum of 34 credits in Biology, of which 26 must be at the advanced (300 and above) level. At least 15 of the advanced credits must be taken in residence at UWM. Students must complete four (4) laboratory courses. No more than eight (8) credits in 100-level courses in Biological Sciences may be applied toward the major, and students may not combine Bio Sci 150, 202, and 203 for more than 9 credits toward the major. A combined limit of 6 credits in Bio Sci 290, 489, 695, 697, 698, 699, Honors 686, 687, and 689 counts toward the major. Students must attain a GPA of 2.500 in Biological Sciences courses attempted at UWM. In addition, students must attain a GPA of at least 2.500 in all major credits attempted, including any transfer work.

Additional requirements for the major include the following foundational courses in Math, Physics, and Chemistry: 1) Math 211, 221, or 231 for a Bachelor of Science (Math 105 or equivalent for a Bachelor of Arts); 2) One year of Physics (120/122 or 209/210, with at least one semester of Physics lab (121 or 214) or one year of Physics in the studio format (219/220); and 3) Either the survey of Organic Chemistry with lab (Chem 341/342) or the one-year Organic Chemistry sequence with one lab (Chem 343/344/345). For students in the Cell and Molecular Biology (CMB) option, Chem 343, 344, and 345 are required, and a second physics lab is strongly recommended. Students who plan to attend graduate or

professional schools are advised to take the one-year sequence of Organic Chemistry with lab, a course in Biochemistry (Chem 501; also counts toward major), and two semesters of Calculus.

STANDARD BIOLOGICAL SCIENCES OPTION

Required Biological Sciences Courses

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
Bio Sci 325	Genetics	4

Either:

Bio Sci 310	General Ecology	4
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or both

Bio Sci 315 and	Cell Biology	3
Bio Sci 316	Laboratory in Genetics and Cell Biology	2

Research Requirement: One of Bio Sci 611, 670, 671, 672, or CES 490 (a senior seminar); Honors 686, 687, or 689 (Honors research, project, or thesis); or Bio Sci 695, 697, 698, or 699 (Independent Study).

Electives to reach a total of 26 upper-division (numbered 300 and above) credits and one additional laboratory course.

CELL AND MOLECULAR BIOLOGY OPTION

Core Courses

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
Bio Sci 315	Cell Biology	3
Bio Sci 316	Laboratory in Genetics and Cell Biology	2
Bio Sci 325	Genetics	4

Laboratory Courses: At least one Cell and Molecular Biology laboratory numbered above 350 or BIO SCI 203. See individual course descriptions to identify eligible courses.

Electives: Any U-only Cell and Molecular Biology course numbered between 350 and 399.

Any U/G Cell and Molecular Biology course numbered 400 or above.

Research Requirement: Either BIO SCI 672 (Undergraduate Seminar in Cell and Molecular Biology) or BIO SCI 697 (Independent Study in Cell and Molecular Biology).

Students must select additional Cell and Molecular Biology courses to reach a total of 18 credits beyond the core courses and a total of 26 upper-division (numbered 300 and above) credits.

Course of Study: Microbiology Major

Microbiology is the study of microorganisms such as bacteria, archaea, protists, fungi, and viruses. Prospective Microbiology majors should consult with a faculty advisor as early as possible, preferably before the beginning of the junior year, in order to outline an appropriate course of study. Students should consult their advisor at least once each semester.

There are two options within the Microbiology major: the Microbiology Standard option and the Industrial Fermentation and Biotechnology option, which is offered jointly with the Department of Chemistry and Biochemistry. For both options, at least 15 credits of advanced (300 and above) Microbiology courses must be taken in residence at UWM. Students must attain an average GPA of 2.500 in Microbiology courses attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

Microbiology Standard Option

The Microbiology option requires a minimum of 34 credits in Microbiology. The required and elective courses in Bio Sci, Chem 501, and BMS 534, 535, 539, and 540 count as "Microbiology" courses for this purpose. A combined limit of

6 credits in Bio Sci 290, 695, 697, 698, and 699 counts toward the major.

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
Bio Sci 325	Genetics	4
Bio Sci 383	General Microbiology	4
Bio Sci 529	Molecular Biology of Microorganisms	3
Bio Sci 540	Microbial Diversity and Physiology	3
Research Requirement: Bio Sci 495, 671, 698 or, when determined by the student's Microbiology faculty advisor to have Microbiology content, Bio Sci 699, or Honors 686, 687, or 689. (For titles and credits, see electives list.)		
Elective Microbiology Courses: Students choose courses from this list to complete their 26 credits of upper-level (300 or above) microbiology courses. Students MUST take EITHER Bio Sci 315 (Cell Biology) OR Chem 501 (Introduction to Biochemistry), and they MUST take EITHER Bio Sci 537 (Industrial Microbiology and Biochemistry Laboratory), OR Bio Sci 539 (Laboratory Techniques in Molecular Biology), OR Bio Sci 580 (Experimental Microbiology).		
Bio Sci 315	Cell Biology	3
Bio Sci 316	Laboratory in Genetics and Cell Biology	2
Bio Sci 401	Immunology	2
Bio Sci 402	Immunological Techniques	3
Bio Sci 405	General Virology	3
Bio Sci 425	Plankton Biology	4
Bio Sci 490	Molecular Genetics	3
Bio Sci 495	Internship in Biotechnology, Upper Division	3-6
Bio Sci 507	Environmental Microbiology	3
Bio Sci 535	Bacterial Pathogenesis	3
Bio Sci 536	Applied Microbiology and Biotechnology	2
Bio Sci 537	Industrial Microbiology and Biochemistry Laboratory	2
Bio Sci 539	Laboratory Techniques in Molecular Biology (if not selected above)	4
Bio Sci 542	Biological Electron Microscopy	3
Bio Sci 544	Transmission Electron Microscopy Laboratory	3
Bio Sci 572	Genomics	3
Bio Sci 573	Cellular Evolution	3
Bio Sci 580	Experimental Microbiology	4
Bio Sci 595	Principles of Genetic and Molecular Engineering	3
Bio Sci 597	RNA Structure, Function, and Metabolism	3
Bio Sci 667	Advanced Techniques in Microbial, Molecular, and Cellular Biology	4
Bio Sci 671	Undergraduate Seminar in Microbiology: (subtitle) (may not count for more than 1 of the elective credits)	1
Bio Sci 698	Independent Study in Microbiology	1-3 (per semester)
Bio Sci 699 ¹	Independent Study	1-3 (per semester)
Chem 501	Introduction to Biochemistry	3
Chem 601	Biochemistry: Protein Structure and Function	3
BMS 534 ²	Medical Microbiology	2
BMS 535 ²	Medical Microbiology Laboratory	2
BMS 539 ²	Public Health Microbiology	2
BMS 540 ²	Public Health Microbiology Laboratory	1
Honors 686 ¹	Research in Honors	2-3
Honors 687 ¹	Senior Honors Project	1-6
Honors 689 ¹	Senior Honors Thesis	3

¹ Only Bio Sci 699 or Honors 686, 687, or 689 projects that are determined by the student's microbiology faculty advisor to have microbiology content count toward the major.

² Students may elect to take these BMS courses to earn credit toward the Microbiology major option provided that they earn 30 advanced credits in Natural Sciences within the College of Letters and Science, as required for the BS degree.

Other Required Courses

Chem 102	General Chemistry	5
Chem 104	General Chemistry and Qualitative Analysis	5
Chem 343	Organic Chemistry	3
Chem 344	Organic Chemistry Laboratory	2
Chem 345	Organic Chemistry	3
Math 211 or	Survey in Calculus and Analytic Geometry	4
Math 221 or	Honors Calculus I	5
Math 231	Calculus and Analytical Geometry I	4

AND

Math 222 or	Honors Calculus II	5
Math 232 or	Calculus and Analytic Geometry II	4
Bio Sci 465	Biostatistics	3

One of the following sets of physics courses:

Physics 120	General Physics I (Non-calculus Treatment)	4
Physics 122	General Physics II (Non-calculus Treatment)	4
Physics 123	General Physics Laboratory II (Non-calculus Treatment)	1

or

Physics 209	Physics I (Calculus Treatment)	4
Physics 210	Physics II (Calculus Treatment)	4
Physics 215	Lab Physics II (Calculus Treatment)	1

or

Physics 219	Physics I: Calculus-Based, Studio Format	5
Physics 220	Physics II: Calculus-Based, Studio Format	5

Industrial Fermentation and Biotechnology Option

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
Bio Sci 325	Genetics	4
Bio Sci 383	General Microbiology	4
Bio Sci 529	Molecular Biology of Microorganisms	3
Bio Sci 536	Applied Microbiology and Biotechnology	3
Bio Sci 537	Industrial Microbiology and Biochemistry Laboratory	2
Chem 501	Introduction to Biochemistry	3
Chem 541	Bioprocess Chemical Engineering	3
Chem 543	Bioproduct Regulatory Protocols	3
Chem 690	Seminar: Science Career Transitions	1

One of

Bio Sci 489 or	Internship in Biological Sciences, Upper Division (Industry Internship)	
Bio Sci 698	Independent Study in Microbiology	

Other Required Courses

Chem 102	General Chemistry	5
Chem 104	General Chemistry and Qualitative Analysis	5
Chem 343	Organic Chemistry	3
Chem 344	Organic Chemistry Laboratory	2
Chem 345	Organic Chemistry	3
One of		
Math 211 or	Survey in Calculus and Analytic Geometry	4
Math 221 or	Honors Calculus I	5
Math 231	Calculus and Analytical Geometry	4
One of		
Math 222 or	Honors Calculus II	5
Math 232 or	Calculus and Analytical Geometry	4
Bio Sci 465	Biostatistics	3
One of the following sets of Physics courses:		
Physics 120	General Physics I (Non-calculus Treatment)	4
Physics 122	General Physics II (Non-calculus Treatment)	4
Physics 123	General Physics Laboratory II (Non-calculus Treatment)	1
or		
Physics 209	Physics I (Calculus Treatment)	4
Physics 210	Physics II (Calculus Treatment)	4
Physics 215	Lab Physics (Calculus Treatment)	1
or		
Physics 219	Physics I: Calculus-Based, Studio Format	5
Physics 220	Physics II: Calculus-Based, Studio Format	5

Honors in the Major

Students in biological sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major; and
4. Complete a laboratory or field research independent study (Bio Sci 697, 698, or 699) or internship (Bio Sci 489 or CES 489).

Students who believe they may qualify for honors in biological sciences should apply to the Department during their last semester of study.

Course of Study: Minor

Students with a major in another discipline can apply for a minor in Biological Sciences by meeting the requirements listed below, completing the appropriate "Declaration of Minor" form, and meeting with a Department of Biological Sciences advisor.

Requirements: The minor consists of 19 credits in Biological Sciences including the core introductory sequence (Bio Sci 150 and Bio Sci 152); a gateway course selected from the following three options 1) Bio Sci 310, or 2) Bio Sci 315 plus Bio Sci 316, or 3) Bio Sci 325 plus Bio Sci 316; and at least 7 additional credits in courses that carry credit toward the major. At least 9 credits must be taken at or above the 300 level in residence at UWM. Students must maintain a GPA of 2.500 in minor courses attempted at UWM. In addition, students must attain a GPA of 2.500 in all minor courses attempted, including any transfer work.

Declaration of Major or Minor in Biological Sciences

Students should contact an advisor (see list below) as soon as possible in their freshman year about required courses and

the recommended course sequence within Biological Sciences. They should complete Bio Sci 150 and be enrolled in Bio Sci 152 before officially declaring a major in Biological Sciences. Upon declaring the major, the student must select a Department of Biological Sciences faculty advisor (from the list below) who will guide the student in planning his/her curriculum and will help the student accomplish his/her goals. **Failure to complete the declaration of major, as recommended, may result in a delay in graduation.**

Procedure for Processing a Declaration of Major or Minor:

1. Obtain and complete a “Declaration of Major (or Minor) Form” from the Department of Biological Sciences office (Lapham Hall S181).

2. Attend the Open Advising session held before registration each semester or select a departmental advisor in the area of interest (see list below) and *set up an advising appointment by sending an email* to the prospective advisor as follows:

* The “subject box” of the email should say “Appointment to Declare Major (or Minor).”

* The text of the message should give days and times the student is available to meet for advice about the major/minor and curriculum. Take the “Declaration of Major/Minor Form” and an up-to-date copy of the student's transcript (available from PAWS) to the advising appointment at which the advisor will sign the form. After this initial meeting, return to meet with the departmental advisor regularly to discuss academic progress and/or attend open advising regularly.

3. Return the "Declaration of Major/Minor Form" with the advisor's signature, to Lapham Hall S181 to obtain the Department Chair's signature. The Chair will forward the form to the College of Letters and Science Office of Student Academic Services.

4. **Meet each semester with the assigned College of Letters and Science advisor** (in Holton Hall); the L&S advisor will monitor progress toward completion of the L&S degree requirements.

Department Advisors

Biological Sciences Advisors

Professor Berges – Marine Biology

Professor Coggins – Parasitology

Professor Dunn – Behavioral Ecology

Professor Karron – Plant Ecology

Professor Latch – Population Genetics

Professor Rodríguez – Behavioral Ecology

Professor Strickler – Ecology

Professor Whittingham – Behavioral Ecology

Professor Young – Plant Biology

Cellular & Molecular Biology Option Advisors

Professor Heathcote – Neuroscience

Professor Hutz – Physiology

Professor Oliver – Mammalian Cell Biology

Professor Scanes – Animal Physiology & Nutrition

Professor Steeber – Immunology

Professor Udvardia – Neuroscience

Professor Wejksnora – Molecular Biology

Professor Wimpee – Molecular Biology

Professor Witten – Neuroscience

Professor Zhao – Molecular Genetics

Microbiology Advisors

Professor Dey – Molecular Biology

Lapham Office

S587

S297

S497

S585

N215

S295

Water Inst. 137

S499

S593

E-mail (@uwm.edu)

berges

coggins

pdunn

karron

latch

rafa

jrs

whitting

ebyoung

rdh

rjhutz

oliver

scanes

steeber

audvardia

pjw

cwimpee

jlw

dzhao

460

deym

Professor Forst – Molecular Biology	458	sforst
Professor Kuchin – Genetics	444	skuchin
Professor McBride – Molecular Biology	N307	mcbride
Professor Prasad – Microbiology	440	prasadg
Professor Saffarini – Environmental Microbiology	N309	daads
Professor Yang – Genomics	131D	chyang

Advisors for Related Programs

Major in Conservation & Environmental Science

Professor Fredlund – Biogeography	364	fredlund
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Pre-Professional (Medicine, Dental, Pharmacy, Veterinary Medicine)

Patty Cobb (pre-Medicine)	Holton 131	pacobb
Jenny Hack (pre-Dentistry)	Holton 150	jlahamer
Laura Stark (pre-Pharmacy)	Holton 130	starll
Lori Fitzenberger (pre-Veterinary Medicine)	Holton 147	lorifitz

Related Areas of Study

The **Conservation and Environmental Science** major is an alternative, interdisciplinary program for students with specific interests in conservation or environmental science (see Interdepartmental Majors, College of Letters and Science).

For the **Pre-Forestry (Wildlife Management)** curriculum, see the Pre-Professional Programs section (College of Letters and Science).

Pigeon Lake Field Station is a natural laboratory sponsored by the 14 campuses of the University of Wisconsin System, located in the Chequamegon National Forest, 30 miles from Lake Superior in northern Wisconsin's Bayfield County. Pigeon Lake Field Station offers summer programs in a variety of disciplines, including biology. Work completed at Pigeon Lake is credited as resident study by UWM. For additional information, contact the Biological Sciences Department office.

The UWM Field Station is an area of almost 2,500 acres devoted to the study of natural history and biology. Located about 25 miles north of campus on the Cedarburg Bog in the Town of Saukville, the station includes a wide variety of natural areas ranging from old-growth forest to acid bog and several lakes. Many biological sciences courses use the Field Station for instruction and to provide hands-on research opportunities. The Field Station provides internship and independent study opportunities for biology students; it also offers short courses for credit through the department. For additional information, contact the Biological Sciences Department office.

Courses

[Biological Sciences \(BIO SCI\)](#)

Cross-listed Courses

The following courses offered by other departments may be used to fulfill the requirements of the undergraduate major and minor in biological sciences:

CES 471	Practicum in Natural Resource Management
CES 490	Senior Seminar: Conservation and Environmental Sciences

Chem 501	Introduction to Biochemistry
Psych 254	Physiological Psychology
Psych 654	Advanced Physiological Psychology

Faculty and Staff

Filipe Alberto, Asst. Prof., PhD
University of Algarve, Portugal

Sonia Bardy, Asst. Prof., PhD
Queen's University, Ontario

John Berges, Prof., PhD
University of British Columbia

Gerald Bergtrom, Prof. Emeritus, PhD

Martin Boraas, Assoc. Prof. Emeritus, PhD

Arthur S. Brooks, Prof. Emeritus, PhD

John Buntin, Prof. Emeritus, PhD

James R. Coggins, Assoc. Prof. Emeritus, PhD

Mary Lynne Perille Collins, Prof. Emerita, PhD

Madhusudan Dey, Assoc. Prof., PhD
Jawaharlal Nehru University, India

Peter Dunn, Prof., PhD
University of Alberta

Timothy Ehlinger, Assoc. Prof., PhD
Michigan State University

Millicent S. Ficken, Prof. Emerita, PhD

Steven Forst, Prof., PhD
New York University

Ralph Grunewald, Assoc. Prof. Emeritus, PhD

Jennifer Gutzman, Asst. Prof., PhD
University of Wisconsin-Madison

R. David Heathcote, Prof., PhD, Chair
University of California, Berkeley

Gerlinde Hoebel, Asst. Prof., DNS
University of Ulm, Germany

Sara B. Hoot, Prof. Emerita, PhD

Reinhold Hutz, Prof., PhD

Michigan State University

Jeffrey Karron, Assoc. Prof., PhD

University of Colorado

Geoffrey S. Kennedy, Assoc. Prof. Emeritus

Sergei Kuchin, Assoc. Prof., PhD

Institute of Genetics (Moscow)

Emily Latch, Assoc. Prof., PhD

Purdue University

Jakob R. Loewenberg, Prof. Emeritus, PhD

Mark McBride, Prof., PhD

University of Wisconsin-Madison

Julie A. Oliver, Assoc. Prof., PhD

University of Wisconsin-Madison

Marianna Orlova, Instrument Innovator, PhD

Institute of Genetics and Selection of Industrial Microorganisms, Moscow

Heather A. Owen, Assoc. Scientist, PhD

Miami University

Andrew Petto, Lect., PhD

University of Massachusetts, Amherst

Ruth B. Phillips, Prof. Emerita, PhD

Gyaneshwar Prasad, Assoc. Prof., PhD

Maharaja Sayajirao University of Baroda, India

Christopher C. Quinn, Asst. Prof., PhD

Yale University

Charles C. Remsen, Prof. Emeritus, PhD

Rafael Rodríguez, Assoc. Prof., PhD

University of Kansas

Daad A. Saffarini, Prof., PhD

University of Wisconsin-Milwaukee

Colin Scanes, Prof. Emeritus, PhD, DSc

Dianne Seale, Assoc. Prof. Emerita, PhD

Cynthia V. Sommer, Assoc. Prof. Emerita, PhD

Douglas Steeber, Assoc. Prof., PhD

University of Wisconsin-Madison

J. Rudi Strickler, Distinguished Prof., PhD

Swiss Federal Institute of Technology

Ava Udvardia, Assoc. Prof., PhD

Duke University

Donna Van Wynsberghe, Prof. Emerita, PhD

Eldon D. Warner, Prof. Emeritus, PhD

Roslyn P. Warren, Prof. Emerita, PhD

Peter J. Wejksnora, Assoc. Prof., PhD

Brandeis University

Linda A. Whittingham, Prof., PhD

Queens University, Ontario

Charles F. Wimpee, Assoc. Prof., PhD

University of California, Los Angeles

Jane Witten, Assoc. Prof., PhD

University of Chicago

Ching-Hong Yang, Prof., PhD

University of California, Riverside

Erica Young, Assoc. Prof., PhD

Monash University (Melbourne, Australia)

Dazhong Zhao, Assoc. Prof., PhD

Chinese Academy of Science

Adjunct Faculty

Gretchen A. Meyer, Adjunct Senior Scientist, PhD

Cornell University

James R. Moyer, Jr., Assoc. Prof., PhD, Psychology

Northwestern University

Valerica Raicu, Prof., PhD, Physics

University of Bucharest, Romania

James A. Reinartz, Adjunct Senior Scientist, PhD

Duke University

Marius Schmidt, Prof., PhD, Physics

Technical University of Munich

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Chemistry and Biochemistry

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The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area's industrial and scientific community.

Prerequisite Preparation for Majors in Chemistry and Biochemistry

General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by Chem 102 and 104 (10 cr). Students without high school chemistry or whose background in science is weak may need to take Chem 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one's start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years. (See L&S "Special Degree Programs" section of this catalog.)

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from five different curricular options in chemistry and biochemistry:

1. Standard Chemistry Major
2. Course in Chemistry Degree Program
3. Chemistry Major with a Biochemical Option

4. Standard Biochemistry Major

5. Biochemistry Major with an Industrial Fermentation and Biotechnology Option

For any option, at least 15 credits must be taken in chemistry courses numbered 300 or above in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all credits attempted, including any transfer work. Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

Requirements and standard timetable for obtaining a degree with these fields of study are provided below.

Declaration of Major Requirements. To declare a chemistry or biochemistry major, the following are required:

- completion of Chem 102 and 104;
- completion or concurrent registration in Chem 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

Standard Chemistry Major Option. The standard chemistry major option may be followed in either the Bachelor of Science or Bachelor of Arts degree. It provides a suitable background for students preparing for employment in chemistry and related scientific fields or for subsequent graduate study.

REQUIREMENTS

General Chemistry (Chem 102 and 104)

Analytical Chemistry (Chem 221)

Inorganic Chemistry (Chem 311)

Organic Chemistry (Chem 343, 344, and 345)

Instrument Analysis (Chem 524)

Physical Chemistry (Chem 561, 562, and 563)

Advanced Chemistry Laboratory (Chem 582 or 584)

Biochemistry or Advanced Inorganic Elective (Chem 501 or 511)

Independent Research (Chem 691 or 692) (satisfies L&S research requirement)

Calculus (Math 231, 232, and 233, Math 234 recommended)

Physics (calculus-based), with lab (Physics 209, 210, 214, and 215 or Physics 219 and 220)

Course in Chemistry Degree Program (Approved by the American Chemical Society)

The Course in Chemistry is a professional degree program that follows a curriculum approved by the American Chemical Society. It differs from the chemistry major in requiring more courses in chemistry and fewer in the social sciences and humanities. While any of the chemistry curriculum options (except the biochemistry major), with an appropriate choice of electives, provides a suitable basis for graduate study or employment in chemistry or a related field, the Course in Chemistry is a more complete program and carries additional professional recognition.

REQUIREMENTS

General Chemistry (Chem 102 and 104)

Analytical Chemistry (Chem 221)

Inorganic Chemistry (Chem 311)

Organic Chemistry (Chem 343, 344, and 345)

Instrument Analysis (Chem 524)

Physical Chemistry (Chem 561, 562, and 563)

Advanced Chemistry Laboratories (Chem 582 and 584)

Biochemistry (Chem 501)

Advanced Inorganic Chemistry (Chem 511)

Independent Research (Chem 691 or 692)

Calculus (Math 231, 232, 233 and 234)

Physics (calculus-based), with lab (Physics 209, 210, 214, and 215 or Physics 219 and 220)

The Course in Chemistry also has specific requirements outside of the sciences. To graduate, students are required to have an overall GPA of 2.000 and a 2.500 GPA in chemistry courses other than Chem 106. A total of at least 18 credits in the humanities, social sciences, and arts is required. This course array supersedes the College of Letters and Science breadth requirements; courses must be selected to include the campus-wide GER distribution requirements (6 cr each in humanities and social sciences, 3 cr in arts, and 3 cr in cultural diversity). Students also must complete two courses (at least 6 credits) in a single language (including American Sign Language) other than English at the 100 level or above with grades of C or higher. This requirement is satisfied by two years of a single language (including American Sign Language) other than English taken in high school. English 102 with a grade of C or better or a score of 4 on the English placement exam also is required.

See the Course in Chemistry entry in the L&S Degree Programs section of this catalog for additional information.

Standard Chemistry Major with a Biochemical Option. The standard chemistry major with a biochemical option differs from the standard major option in that some of the chemistry courses required by the standard option are omitted, and courses in biochemistry and biological sciences are added. Some students planning further study in biochemistry, molecular biology, or medicine may prefer this option.

REQUIREMENTS

General Chemistry (Chem 102 and 104)

Analytical Chemistry (Chem 221)

Inorganic Chemistry (Chem 311)

Organic Chemistry (Chem 343, 344, and 345)

Instrument Analysis (Chem 524)

Physical Chemistry (Chem 561, 562, and 563)

Biochemistry (Chem 501 and two biochemistry courses selected from Chem 601, 602, and 604)

Biochemistry Laboratory (Chem 603)

Senior Research (Chem 691 or 692) (satisfies L&S research requirement)

Biological Sciences (Bio Sci 150 and 325)

Calculus (Math 231, 232, and 233, Math 234 recommended)

Physics (calculus-based), with labs (Physics 209, 210, 214, and 215 or Physics 219 and 220)

**SUGGESTED TIMETABLE FOR STANDARD CHEMISTRY MAJOR, COURSE IN CHEMISTRY DEGREE,
AND STANDARD CHEMISTRY MAJOR WITH A BIOCHEMICAL OPTION**

MODEL FOUR-YEAR PROGRAM

Course (credits)

FRESHMAN YEAR: SEMESTER I

Chem 102 (5)

Math precalculus (4)

FRESHMAN YEAR: SEMESTER II

Chem 104 (5)

Math 231 calculus (4)

SOPHOMORE YEAR: SEMESTER I

Chem 343 (3)

Chem 221 (4)

Math 232 calculus (4)

SOPHOMORE YEAR: SEMESTER II

Chem 344 (2)

Chem 345 (3)

Math 233 calculus (4)

Physics 209 (4)

Physics 214 (1)

JUNIOR YEAR: SEMESTER I

Chem 311 (3)

Chem 501 (3)* (or take in spring)

Physics 210 (4)

Physics 215 (1)

JUNIOR YEAR: SEMESTER II

Chem 561 (3)

SENIOR YEAR: SEMESTER I

Chem 562 (3)
Chem 563 lab (1)
Chem 524 (3)
Chem 582 lab (2)* ** (or take in spring)
Chem 691 or 692 or 697 (1 or 2)

SENIOR YEAR: SEMESTER II

Chem 511 (3)*
Chem 584 lab (2)* ** (or take in fall)
Chem 524 (3)
Chem 582 lab (2)* **
Chem 524 (3)
Chem 691 or 692 or 697 (1 or 2)

* Courses that may be optional for standard chemistry major; required for the Course in Chemistry degree.

** Courses that are omitted for the standard chemistry major with the biochemical option. In addition, students must take Chem 501, 603, and two courses selected from Chem 601, 602, 604, and 614. Bio Sci 150 and 325 (genetics) also are required for the biochemistry option.

Biochemistry Major. The biochemistry major differs from the standard chemistry major with a biochemical option in a number of ways intended to provide for students a more intensive education in biochemistry so that they are prepared for work in the biochemical industry upon completing their baccalaureate degree. Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

There are two options in the biochemistry major: the biochemistry general option and the industrial fermentation and biotechnology option, which is offered jointly with the Department of Biological Sciences.

REQUIREMENTS

Biochemistry General Option

General Chemistry (Chem 102 and 104)

Analytical Chemistry (Chem 221)

Organic Chemistry (Chem 343, 344, and 345)

Physical Chemistry (Chem 560)

Biochemistry (Chem 501 and two courses selected from Chem 601, 602, and 604)

Biochemistry Laboratory (Chem 603)

Independent Research (Chem 691 or 692) (satisfies L&S research requirement)

Biological Sciences (Bio Sci 150, 325, and 7 cr from 315, 316, 356, 383, 401, 402, 405, 490, 529, 539, 540, 564 [630], 572, 573, 580, 595, 607, and 667)

Physics (non-calculus-based), with labs (Physics 120, 121, 122, 123)

Mathematics, including Finite Math (Math 205), Calculus Survey (Math 211), and Statistics (MthStat 215)

Industrial Fermentation and Biotechnology Option

General Chemistry (Chem 102 and 104)

Analytical Chemistry (Chem 221)

Organic Chemistry (Chem 343, 344, and 345)

Physical Chemistry (Chem 560)

Biochemistry (Chem 501 and two courses selected from Chem 601, 602, and 604)

Biochemistry Laboratory (Chem 603)

Independent Research (Chem 691 or 692) (satisfies L&S research requirement)

Biological Sciences (Bio Sci 150, 325, 383, and 536)

Bioprocess Chemical Engineering (Chem 541)

Industrial Microbiology and Biochemistry Laboratory (Chem 537)

Bioproduct Regulatory Protocols (Bio Sci/Chem 5xx)

Science Career Transitions (Chem 489 with "Science Career Transitions" focus)

Industry Internship (Chem 489) (satisfies L&S research requirement)

Physics (non-calculus-based), with labs (Physics 120, 121, 122, 123)

Mathematics, including Finite Math (Math 205), Calculus Survey (Math 211), and Statistics (MthStat 215)

SUGGESTED TIMETABLE FOR THE BIOCHEMISTRY MAJOR

Course (credits)

Freshman Year: Semester I

Chem 102 (5)

Math 211 (4)

Bio Sci 150 (4)

Freshman Year: Semester II

Chem 104 (5)

Math 205 (3)

Sophomore Year: Semester I

Chem 221 (4)

Chem 343 (3)

Physics 120, 121 (5)

MthStat 215 (3)

Sophomore Year: Semester II

Chem 344 lab (2)

Chem 345 (3)

Physics 122, 123 (5)

Bio Sci 325 (4)
Chem 399 (2) (research)

Junior Year: Semester I

Chem 560 (3)
Chem 501 (3)

Junior Year: Semester II

Bio Sci Elective (4)
Chem 602 or 604 biochemistry (3)
Chem 603 (2)

Senior Year: Semester I

Chem 601 biochemistry (3)
Chem 691 or 692 research (2)

Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

Course of Study: Majors in Other Areas

In addition to programs of study leading to a major in chemistry, the department offers coursework for liberal arts students seeking a non-scientist's introduction to chemistry as well as for students in other areas whose programs require a background in chemistry. For the liberal arts student, an alternative to the general chemistry courses is Chem 106, "Chemistry in the World Around Us," which qualitatively examines the application of chemical principles to problems of society and everyday life.

Programs in some other science and health-related areas call for a sequence of chemistry courses beginning with the standard general chemistry (Chem 102 and 104). In some cases, this may be followed by alternative courses in organic chemistry (Chem 341) or physical chemistry (Chem 560), which are not accepted as a part of a chemistry major.

Some other professional or pre-professional programs include a sequence consisting of Chem 100 (if needed), Chem 101, and Chem 103. This latter sequence is a terminal one that does not provide prerequisite preparation for any other chemistry courses, and students in these areas who wish to keep their options open for more advanced studies should select the standard general chemistry courses. Students should consult the requirements of their programs before registering.

Teaching Major and Minor. See the School of Education section in this catalog.

Course of Study: Minor

A minor in chemistry may be a useful addition to the programs of students majoring in other natural sciences areas. The minor consists of a minimum of 20 credits in chemistry, with at least 9 of these at or above the 300 level in residence at UWM. These credits must include general chemistry (through Chem 104) and at least one course each from three of the following areas:

Analytical (Chem 221, 524)

Biochemistry (Chem 501, 601, 602, 603, 604)

Inorganic (Chem 311, 511, 614)

Organic (Chem 341-345)

Physical (Chem 560-563)

At least one course with a laboratory, beyond general chemistry, must be taken. Students must maintain an average GPA of 2.500 in all minor courses attempted at UWM. In addition, students must attain a 2.500 GPA on all minor courses attempted, including any transfer work. Chem 106 does not count toward the minor and is not included in the minor GPA.

For further information regarding degree requirements, see the Chemistry Academic Undergraduate Advisor, Gloria Freschl. Please bring a copy of your transcript when meeting with the advisor to declare a major. Unofficial, free-of-charge UWM transcripts may be obtained from the Department of Enrollment Services in Mellencamp Hall, Room 274.

Courses

[Chemistry \(CHEM\)](#)

Faculty

Carolyn Aita, Distinguished Prof. Emerita, PhD

Joseph Aldstadt, Assoc. Prof., PhD

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Alexander Arnold, Assoc. Prof., PhD

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Dennis W. Bennett, Prof., PhD

University of Utah

Anja Blecking, Asst. Prof., PhD

University of Duisburg, Germany

Jian Chen, Assoc. Prof., PhD

Fudan University, P. R. China

James M. Cook, Distinguished Prof., PhD

University of Michigan

Mark Dietz, Prof., PhD
University of Arizona

Benjamin Feinberg, Prof. Emeritus, PhD

David Frick, Prof., PhD
The Johns Hopkins University

Peter Geissinger, Prof., PhD, Chair
University of Bayreuth, Germany

E. Alexander Hill, Prof. Emeritus, PhD

M. Mahmum Hossain, Prof., PhD
University of South Carolina

Calvin O. Huber, Prof. Emeritus, PhD

Guilherme Indig, Assoc. Prof., PhD
University of São Paulo, Brazil

Peter J. Kovacic, Prof. Emeritus, PhD

Graham Moran, Prof., PhD
University of Michigan

Kristen Murphy, Assoc. Prof., PhD
University of Wisconsin-Milwaukee

Arsenio Pacheco-Olivella, Prof., PhD
University of British Columbia

Xiaohua Peng, Assoc. Prof., PhD
University of Osnabrück, Germany

David H. Petering, Distinguished Prof., PhD
University of Michigan

Mary Ellen Schaff, Prof. Emerita, MS

Alan Schwabacher, Assoc. Prof., PhD
Columbia University

Frank Shaw, Prof. Emeritus, PhD

B. Richard Siebring, Prof. Emeritus, PhD

Nicholas R. Silvaggi, Asst. Prof., PhD
University of Connecticut-Storrs

George Sosnovsky, Prof. Emeritus, PhD

Kristene Surerus, Assoc. Prof., PhD
University of Minnesota

Wilfred T. Tysoe, Distinguished Prof., PhD

Cambridge University

Ralf W. Vanselow, Prof. Emeritus, PhD

Kenneth L. Watters, Prof. Emeritus, PhD

Jorg Woehl, Assoc. Prof., PhD

University of California, Riverside

SENIOR SCIENTIST

Shama Mirza, Director of Shimadzu Laboratory, PhD

Indian Institute of Technology, India

Douglas Stafford, PhD, Director of Milwaukee Institute for Drug Discovery

Tufts University School of Medicine

INSTRUMENTATION INNOVATOR

Frank (Holger) Foersterling, Researcher, PhD

University of Tennessee, Knoxville, TN

Neal Korfhage, Scientific Glassblower

Salem Community College, Carney's Point, NJ

Leonid Lerner, Researcher, PhD

Cambridge University, U.K.

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- [Courses: Greek \(GREEK\)](#)
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The Classics program offers instruction in the ancient Greek and classical Latin languages and literatures and in the civilizations of Greece and Rome. Courses offered in the area of classical civilization do not require a knowledge of Greek or Latin.

Students planning to pursue graduate study in classics and related disciplines, or teaching certification in Latin, should consult with the Classics Program coordinator early in their undergraduate career.

Course of Study: Major

There are three major concentrations: Classical Civilization, Ancient Greek Language and Literature, and Classical Latin Language and Literature. Students who major in a Classics Program concentration must complete at least 15 credits of the major in 300-level or above courses in residence at UWM. All students must complete a research experience in their major. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM, including any transfer work.

Classical Civilization Major Concentration

This Concentration is intended for students who wish to study classical literature and culture without pursuing coursework in the original languages. Courses in ancient Greek and Latin are optional and may count toward fulfilling major requirements.

Completion of the major requires a minimum of 33 credits distributed as follows:

Classic 170	Classical Mythology	3
Classic 201	Introduction to Greek Life and Literature	3
Classic 202	Introduction to Roman Life and Literature	3

Nine additional credits in Classic (not Greek or Latin) courses at the 300 level or above.

For the remaining credits, students may choose from among any Classic, Greek, or Latin courses. Up to 6 credits of these elective courses may include approved courses in related disciplines (see list of approved courses below). A minimum of 15 credits in all courses taken for the major must be taken at the 300 level or above. Students must

complete the L&S research requirement in the context of a Classic, Greek, or Latin course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

Electives

ArtHist 312	Minoan and Mycenaean Art and Archaeology
ArtHist 313	Greek Art and Archaeology
ArtHist 315	Art and Archaeology of Ancient Egypt
ArtHist 316	Roman Art and Archaeology
ArtHist 412	Cities and Sanctuaries of Ancient Greece
ArtHist 413	Greek Sculpture
ArtHist 414	Greek Vase Painting
ArtHist 416	Roman Architecture
Hebr St 236	The Biblical World
Hebr St/Hist 274	Ancient Egyptian Civilization
Hist 201	The Ancient World: The Near East and Greece
Hist 202	The Ancient World: The Roman Republic and Empire
Hist 303	A History of Greek Civilization: The Greek City-State
Hist 304	A History of Greek Civilization: The Age of Alexander the Great
Hist 307	A History of Rome: The Republic
Hist 308	A History of Rome: The Empire
Hist 370	Topics in the History of Religious Thought: "Paganism in the Ancient World" subtitle
Hist 371	Topics in European History: "Rome in the Age of Constantine – Society and Culture" subtitle
Hist 398	Honors Seminar: "Pagans and Christians in the Roman Empire" subtitle; "Medicine and Healing in Ancient Greece and Rome" subtitle
Philos 430	History of Ancient Philosophy
Philos 550 (450)	Plato
Philos 551 (451)	Aristotle
Philos 552 (452)	Special Topics in Ancient and Medieval Philosophy: (with appropriate subtitle)

Ancient Greek Language and Literature Major Concentration

The Ancient Greek Language and Literature major concentration requires the completion of 33 credits, including the following:

Greek 103	First Semester Greek	4
Greek 104	Second Semester Greek	4
Greek 205	Third Semester Greek (or equivalent)	4
Classic 201	Introduction to Greek Life and Literature	3

Four additional courses (12 credits) in Greek at the 300 level or above.

Six additional credits chosen from Greek, Latin, and/or Classic courses.

A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM. Students must complete the L&S research requirement in the context of a Greek or Classic course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

Classical Latin Language and Literature Major Concentration

The Classical Latin Language and Literature concentration requires the completion of 33 credits, including the following:

Latin 103	First Semester Latin	4
Latin 104	Second Semester Latin	4
Latin 205	Third Semester Latin (or equivalent)	4
Classic 202	Introduction to Roman Life and Literature	3

Four additional courses (12 credits) in Latin courses at the 300 level or above.

Six additional credits chosen from Latin, Greek, and/or Classic courses.

A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM. Students must complete the L&S research requirement in the context of a Latin or Classic course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

Course of Study: Classics Minor Concentrations

There are three minor concentrations: Classical Civilization, Ancient Greek Language and Literature, and Classical Latin Language and Literature. Completion of each minor concentration requires a minimum of 21 credits, at least 9 of which must be upper-division courses (300 level and above) completed in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Minor Concentration in Classical Civilization

The Classical Civilization minor concentration requires completion of a minimum of 21 credits, including the following:

Classic 170	Classical Civilization
Classic 201	Introduction to Greek Life and Literature
Classic 202	Introduction to Roman Life and Literature

Six additional credits in Classic (not Greek or Latin language) curricular area courses at the 300 level or above.

Six credits selected from among any Classic, Greek, or Latin courses; at least 3 of these credits must be at the 300 level or above.

Minor Concentration in Ancient Greek Language and Literature

The Ancient Greek Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

Greek 103	First Semester Greek
Greek 104	Second Semester Greek
Greek 205	Third Semester Greek (or equiv)

Nine additional credits, 6 of which must be in Greek at the 300 level or above; the remaining 3 credits may be in Greek or Classic at the 300 level or above.

Minor Concentration in Classical Latin Language and Literature

The Classical Latin Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

Latin 103	First Semester Latin
Latin 104	Second Semester Latin
Latin 205	Third Semester Latin (or equiv)

Nine additional credits, 6 of which must be in Latin at the 300 level or above; the remaining 3 credits may be in Latin or Classic at the 300 level or above.

Related Program

Ancient Mediterranean Studies Certificate Program

Courses

[Classics \(CLASSIC\)](#)

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Communication

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The discipline of communication is the study of human symbolic behavior. In addition to helping students learn to communicate more effectively, communication courses teach students how to analyze human communication in the wide range of communicative situations that people experience daily. These communicative situations include interpersonal, intercultural, organizational, small group, instructional, mediated, and rhetorical/public ones. Communication in these various settings may be oral, written, non-verbal, and/or visual. As the U.S. diversifies and its economy expands the emphasis on teamwork and service, excellent communication skills increasingly are important for a professional career in any field as well as for a more fulfilling life.

Course of Study

Students may declare a major or minor in communication after completion of three credits of coursework in Communication. Prospective majors and minors are advised strongly to be competent in written and oral language skills prior to seeking admission to the program.

Graduation with a major or minor requires a cumulative GPA of at least 2.500 in all communication courses attempted at UWM as well as a 2.500 GPA in all major credits attempted, including any transfer work. All courses in the major or minor must be taken for graded credit.

MAJOR

A major in communication consists of at least 36 credits in communication courses, including Commun 101, 103, 105, and one of Commun 335, 370, or 372. Students must earn at least a B- grade in Commun 101, 103, and 105. At least 18 of the 36 credits must be numbered 300 or above, 15 of these taken in residence at UWM. The remaining 24 credits may be selected from across the communication curriculum.

A maximum of 6 credits earned in any combination of the following courses may count toward the minimum number of credits required for the major in communication:

- 199 Independent Study
- 288 Research Practicum
- 296 UROP Apprenticeship
- 298 Internship in Communication, Lower Division
- 597 Practicum in Teaching Communication
- 588 Research Practicum
- 698 Internship in Communication
- 699 Advanced Independent Reading

The College requires that students complete a research experience in their major. The Department of Communication has structured Commun 335, 370, and 372 to satisfy that requirement. In these courses, students must produce a written

final research paper that involves conducting independent research in addition to evaluating research in the field and integrating it with their findings. Students will present their research in oral form to their course colleagues.

Honors in the Major

Communication majors who want to graduate with honors in the major must attain a 3.000 GPA on all UWM graded credits attempted, a 3.750 GPA on all coursework taken to complete the major, and a 3.750 GPA on advanced (300 level and above) courses in the major. A minimum of 24 credits, at least 15 at the 300-level or above, in communication courses must be taken in residence at UWM.

MINOR

A minor in communication consists of at least 18 credits in communication courses. Nine credits numbered 300 or above must be taken in residence at UWM in addition to completing Commun 101, 103, and 105. Students must earn at least a B- grade in each of the three core courses, Commun 101, 103, and 105.

Specialized Courses: Variable Content and Independent Study

In addition to offering standard coursework, the Department of Communication offers undergraduates opportunities for specialized study.

Variable Content Courses: The content of Commun 192, 193, 380, 631, 641, 651, 660, 662, and 671 varies each semester. Specific topics are announced in the *Schedule of Classes*.

Independent Study Courses: These courses offer students the opportunity to work and study on a one-on-one basis with a faculty member. Students interested in taking Commun 199, 288, 588, 597, and/or 699 should contact an individual faculty member to determine the faculty member's willingness to sponsor the enrollment.

Courses

[Communication \(COMMUN\)](#)

Cross-listed Courses

The following courses offered by other academic units may be used to fulfill the requirements of the undergraduate major and minor in communication:

English 209	Language in the United States	3
English 430	Advanced Writing Workshop	3
PeaceSt 201	Introduction to Conflict Resolution and Peace	3

Related Courses

The following courses offered by the Department of English may be of interest to students in communication but may not be used to fulfill requirements of the major and minor:

English 205	Business Writing	3
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English 206	Technical Writing	3
English 435	Professional and Technical Writing	3
English 436	Writing for Information Technology	3

Faculty

Mike R. Allen, Prof., PhD

Michigan State University

Nancy A. Burrell, Prof., PhD

Michigan State University

Kathryn A. Dindia, Prof. Emerita, PhD

Leslie Harris, Assoc. Prof., PhD

Northwestern University

John R. Johnson, Prof. Emeritus, PhD

John W. Jordan, Assoc. Prof., PhD

University of Georgia

Sangyeon Kim, Assoc. Prof., PhD

Michigan State University

Tae-Seop Lim, Prof., PhD

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Edward A. Mabry, Assoc. Prof. Emeritus, PhD

Kathryn M. Olson, Prof., PhD, Chair

Northwestern University

Erin Ruppel, Asst. Prof., PhD

University of Arizona, Tucson

Erin Sahlstein Parcell, Assoc. Prof., PhD

University of Iowa

C. Erik Timmerman, Assoc. Prof., PhD

University of Texas at Austin

Lindsay Timmerman, Assoc. Prof., PhD

University of Texas at Austin

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Economics

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Economics is the study of choice. In a world with scarce resources (such as raw materials, labor, time), economists study how people choose to use those resources to make people as well-off as possible. The economics curriculum stresses both theory and application of important economic issues in society, such as unemployment, inflation, exchange rates, labor markets, economic development, environmental policies, and international trade and finance.

The Department of Economics offers a wide variety of courses in economic theory, policy, and statistics.

Course of Study: Major

The major in economics requires a minimum of 30 credits including the following:

Econ 103	Principles of Microeconomics	3
Econ 104	Principles of Macroeconomics	3
Econ 210*	Economic Statistics	3
Econ 301	Intermediate Microeconomics	3
Econ 302	Intermediate Macroeconomics	3

* Bus Adm 210 or MthStat 215 may be substituted for Econ 210 and will count in the major GPA.

At least 15 credits must be in upper-division (300 level and above) economics courses taken in residence at UWM. At least one course must be at the 400 level or above, excluding Econ 415. To major in economics, students must earn grades of at least C in Econ 103 and 104, attain at least a 2.500 GPA on all credits in the major attempted at UWM, and attain at least a 2.500 GPA on all major credits attempted when any transfer work is included along with the UWM work.

Research Requirement

All majors in economics must complete an independent research experience by selecting, from the list below, a 400- or 500-level course in which they will write and present a research paper. The contents of the paper and the presentation of the results will be arranged with the faculty member teaching the course.

* *Eligible courses are Econ 403, 404, 405, 411, 413, 422, 426, 432, 437, 447, 448, 454, 455, 506, 513, 525, 529, and 699.*

Honors in the Major

Departmental honors are awarded upon graduation to students who achieve a 3.000 GPA on all UWM graded credits attempted, a 3.500 GPA on all credits that count toward the major, and a 3.500 GPA on all credits in advanced-level (numbered 300 and above) courses that count toward the major.

Optional Concentrations

The Department offers three optional concentrations within the major. While completing the major requirements outlined above, students may elect to complete one of the following sets of requirements:

1. International Economics - three courses from the international module.
2. Quantitative Methods - three courses from the quantitative methods module.
3. Graduate Preparation - two courses each from the quantitative methods module and the economic theory module as follows:

Econ 413	Statistics for Economists	3
Econ 506	Mathematical Economics I	3
Econ 513	Econometrics	3
Econ 606	Mathematical Economics II	3

For courses that meet the requirements of each module, see the economics courses listings.

Course of Study: Minor

The minor in economics requires a minimum of 18 credits, including Econ 103, 104, 210*, and 9 credits in upper-division (300 level or above) economics courses taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM, and at least a 2.500 GPA on all minor credits attempted when any transfer work is included along with the UWM work.

* Bus Adm 210 or MthStat 215 may be substituted for Econ 210 and will count in the minor GPA.

Related Programs

For the teaching major and minor, see the School of Education section of this catalog.

A related special major is international studies; a related degree program is the BA in Global Studies.

Courses

[Economics \(ECON\)](#)

Faculty

Scott Adams, Assoc. Prof., PhD, Chair
Michigan State University

Swarnjit S. Arora, Prof., PhD
State University of New York at Buffalo
Director, Institute for Survey and Policy Research

Mohsen Bahmani-Oskoei, Distinguished Wilmeth Prof., PhD
Michigan State University
Director, Center for Research on International Economics

Niloy Bose, Prof., PhD
Virginia Tech

Avik Chakrabarti, Assoc. Prof., PhD
University of Michigan

Susan Donohue Davies, Adj. Asst. Prof., PhD
University of Wisconsin-Milwaukee

Scott D. Drewianka, Assoc. Prof., PhD
University of Chicago

Chuan Goh, Asst. Prof., PhD
University of California, Berkeley

Laura Grant, Asst. Prof., PhD
University of California, Berkeley

John S. Heywood, Distinguished Prof., PhD
University of Michigan
Director, Master of Human Resources and Labor Relations

William L. Holahan, Prof. Emeritus, PhD

Sunwoong Kim, Prof., PhD
Massachusetts Institute of Technology

N. Kundan Kishor, Assoc. Prof., PhD
University of Washington

Sarah Kroeger, Asst. Prof., PhD
Boston University

Itziar Lazkano, Asst. Prof., PhD
University of Calgary

Tong Hun Lee, Prof. Emeritus, PhD

Vivian Lei, Assoc. Prof., PhD
Purdue University

Markos J. Mamalakis, Prof. Emeritus, PhD

Matthew McGinty, Assoc. Prof., PhD
University of California, Santa Cruz

G. Richard Meadows, Prof. Emeritus, PhD

Hamid Mohtadi, Prof., PhD

University of Michigan

Antu P. Murshid, Assoc. Prof., PhD

Rutgers University

Rebecca Neumann, Assoc. Prof., PhD

University of Colorado

Yoshio Niho, Prof. Emeritus, PhD

James A. Peoples, Prof., PhD

University of California, Berkeley

Richard W. Perlman, Prof. Emeritus, PhD

Eric Schenker, Prof. Emeritus, PhD

Owen Thompson, Asst. Prof., PhD

University of Massachusetts, Amherst

Filip Vesely, Assoc. Prof., PhD

Purdue University

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English

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Courses offered in the English curricular area of the Department of English are concerned primarily with the language and literature of English-speaking peoples. They are designed to develop skills in reading and writing and to offer students a variety of approaches to literature, language, and rhetoric. Further, the department seeks to encourage in each student a questioning approach to canon formation and aesthetic criteria, especially through the texts of previously marginalized minority and women writers, in order to gain insight into cultural diversity.

The English as a Second Language curricular area offers instruction in English for students whose native language is not English.

Course of Study: Major

The department welcomes prospective majors who have maintained a minimum 2.500 GPA in their English courses during the freshman and sophomore years.

Prospective majors are expected to consult with the associate chair for undergraduate studies in designing a program that satisfies their individual interests, abilities, and ambitions; if appropriate, a particular requirement may be waived to meet a student's special programmatic needs. English majors intending to continue their studies in graduate school are urged to plan with the coordinator a program that meets graduate school expectations and prepares them for the Graduate Record Exam.

Students entering with advanced standing are required to earn at least 15 credits in English courses numbered 300 and above while in residence at UWM.

Credit Requirements. All majors are required to take English 215, "Introduction to English Studies." This is a rigorous sophomore-level course designed to introduce students to the discipline; to teach them how to read closely and critically; and to instruct them in the writing of analytical essays. Since English 215 is intended to help students improve their performance in upper-level English courses, it is recommended strongly that students take it before registering for any higher-level courses. All students must complete English 215 *before* declaring the major.

All courses taken towards the major must be at or above the 300 level unless otherwise noted. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

English majors also must complete one of the following tracks. In each track, in their senior year, majors complete a

capstone course or senior seminar. This course includes one or more in-depth writing assignments or projects that include a research component, which satisfies the research requirement for the L&S degree.

Track A: Literary and Critical Studies

- 3 credits in English 215 (Introduction to English Studies)
- 6 credits in English literature before 1900 (301-304, 451-458, 500-505, 530), including 3 credits in pre-1800 literature (301-303, 451-457, 500-504, 530)
- 3 credits in American literature before 1900 (307, 308, 460)
- 3 credits in theory and criticism (378, 390, 392, 394, 395, 402, 432, 545, 547, 626)
- 6 credits in minority, women's, or global literature (306, 332, 372-377, 381, 463-465, 517, 518, 520-524, 622, 628, 629, 631, 632)
- 3 credits in advanced intensive writing (415, 416, 430, 431, 433, 434-438, 615, 616)
- 9 credits in English electives at the 300 level or above
- 3 credits in a capstone seminar selected from English 620-634, 685 (satisfies L&S research requirement)

Total = 36 credits

Track B: Rhetoric and Writing

- 3 credits in English 215 (Introduction to English Studies)
- 3 credits selected from English:
 - 201 (Strategies for Academic Writing)
 - 230 (Writing with Style)
- 3 credits in English 240 (Rhetoric, Writing, and Culture)
- 3 credits in pre-1800 literature (301-303, 451-457, 500-504, 530)
- 3 credits in English 430 (Advanced Writing Workshop)
- 3 credits selected from:
 - English 431 (Topics in Advanced Writing with "Rhetorical History and Theory" subtitle)
 - Commun 435 (Rhetoric in Western Thought)
 - Commun 436 (Recent Rhetorical Theory)
- 3 credits selected from English:
 - 440 (Introduction to Peer Tutoring and Practice)
 - 449 (Writing Internship in English)
- 3 credits selected from:
 - English 378 (Survey of Current Literary and Cultural Theory)
 - Commun 335 (Critical Analysis of Communication)
- 3 credits in minority literature selected from English:
 - 372 (Survey of American Indian Literature)
 - 373 (Survey of Ethnic Minority Literature)
 - 374 (Survey of U.S. Latino/a Literature)
 - 375 (Survey of Asian American Literature)
 - 376 (Survey of African American Literature to 1930)
 - 377 (Survey of African American Literature, 1930-Present)
 - 463 (Writers in African American Literature: subtitle)
 - 517 (Studies in African American Literature: subtitle)
 - 520 (Studies in American Indian Literature: subtitle)
 - 521 (Studies in Ethnic Minority Literature: subtitle)
 - 523 (Studies in U.S. Latino/a Literature: subtitle)
 - 524 (Studies in Asian American Literature: subtitle)
 - 631 (Seminar in African American Literature: subtitle)
 - 632 (Seminar in American Indian Literature: subtitle)
- 3 credits in women's literature or gender studies selected from English:
 - 465 (Women Writers: subtitle)

- 628 (Seminar in Literature by Women: subtitle)
- 629 (Seminar in Literature and Sexuality: subtitle)
- 3 credits in an upper-level English elective
- 3 credits in a capstone seminar experience: English 633 (Seminar in Rhetoric and Writing: subtitle) (satisfies L&S research requirement)

Total = 36 credits

Track C: Creative Writing

- 3 credits in English 215 (Introduction to English Studies)
- 3 credits selected from English:
 - 233 (Introduction to Creative Writing)
 - 234 (Writing Fiction: Structure and Technique)
 - 235 (Writing Poetry: Forms, Styles, Voices)
- 9 credits selected from English:
 - 414 (Special Topics in Creative Writing: subtitle)
 - 415 (Fiction Workshop)
 - 416 (Poetry Workshop)
 - 418 (Literary Journal Production)
 - 611 (The Writer and the Current Literary Scene)
 - 612 (Poetry and the Creative Process)
- 6 credits selected from English:
 - 325 (The Art of Fiction: subtitle)
 - 326 (The Development of the Novel: subtitle)
 - 327 (The Development of the Short Story: subtitle)
 - 328 (Forms of Experimental Literature: subtitle)
 - 329 (Film and Literature)
 - 341 (The Development of Drama: subtitle)
 - 342 (Comedy: subtitle)
 - 343 (Tragedy: subtitle)
 - 344 (Modern Drama: subtitle)
 - 360 (The Art of Poetry: subtitle)
 - 361 (The Development of Poetry: subtitle)
 - 378 (Survey of Current Literary and Cultural Theory)
 - 417 (Readings for Writers: subtitle)
 - 515 (Literature and the Other Arts: subtitle)
 - 547 (Studies in Theory and Criticism: subtitle)
- 3 credits from pre-1800 literature selected from English:
 - 301 (Survey of English Literature: Beginnings to 1500)
 - 302 (Survey of English Literature: 1500-1600)
 - 303 (Survey of English Literature: 1600-1798)
 - 451 (Chaucer)
 - 454 (Milton)
 - 456 (Writers in English Literature, 1500-1660: subtitle)
 - 457 (Writers in English Literature, 1660-1798: subtitle)
 - 500 (Studies in Medieval and Early Modern Literature: subtitle)
 - 501 (Studies in Literature, 1500-1660: subtitle)
 - 504 (Studies in Literature, 1660-1800: subtitle)
 - 530 (Studies in Shakespeare: subtitle)
- 6 credits selected from English:
 - 304 (Survey of English Literature: 1798-1900)
 - 305 (Survey of English Literature: 1900 to the Present)
 - 306 (Survey of Irish Literature: 1900 to Present)

- 307 (Survey of American Literature to 1865)
- 308 (Survey of American Literature 1865-1965)
- 309 (Survey of Contemporary American Literature)
- 332 (Gay and Lesbian Literature: subtitle)
- 372 (Survey of American Indian Literature)
- 373 (Survey of Ethnic Minority Literature)
- 374 (Survey of U.S. Latino/a Literature)
- 375 (Survey of Asian American Literature)
- 377 (Survey of African-American Literature, 1930 to the Present)
- 381 (World Literatures written in English: subtitle)
- 455 (Writers in Drama: subtitle)
- 458 (Writers in English Literature, 1798-1900: subtitle)
- 459 (Writers in English Literature, 1900 to the Present: subtitle)
- 460 (Writers in American Literature, 1500-1900: subtitle)
- 461 (Writers in American Literature, 1900 to the present: subtitle)
- 463 (Writers in African-American Literature: subtitle)
- 465 (Women Writers: subtitle)
- 505 Studies in Literature, (1800-1900: subtitle)
- 507 (Studies in Literature, 1900 to the Present: subtitle)
- 517 (Studies in African-American Literature: subtitle)
- 518 (Studies in Irish Literature: subtitle)
- 520 (Studies in American Indian Literature: subtitle)
- 521 (Studies in Ethnic Minority Literature: subtitle)
- 522 (Studies in World Literature Written in English: subtitled)
- 523 (Studies in U.S. Latino/a Literature: subtitle)
- 524 (Studies in Asian-American Literature)
- 525 (American Indian Literature, Culture and Creative Arts)
- 3 credits in an upper-level English elective
- 3 credits in a capstone experience selected from English 615 (Advanced Workshop in Fiction) or 616 (Advanced Workshop in Poetry) (satisfies L&S research requirement)

PLEASE NOTE: In order to register for the English 615 or 616 capstone (see below), students must have completed successfully two 400-level workshops (English 414, 415, 416) as follows:

- Prerequisites for English 615 fiction capstone: English 415 and one of the following: a second section of English 415 or English 414 or 416.
- Prerequisites for English 616 poetry capstone: English 416 and one of the following: a second section of English 416 or English 414 or 415.
- Students may not take the two required 400-level workshops in the same semester, and they may not take either of them concurrently with English 615/616.

Total = 36 credits

Track D: English Language and Linguistics - At this time, students are not being admitted to this track.

Track E: Literature, Culture, and Media - At this time, students are not being admitted to this track.

Track F: Literature and Language Studies

(Completing this option alone does not satisfy the requirements for teaching certification. For certification requirements, see the School of Education section of this catalog.)

- 3 credits in English 215 (Introduction to English Studies)
- 3 credits selected from English:
 - 201 (Strategies for Academic Writing)

208 (Writing and Research)

- 6 credits in advanced writing courses selected from English:
 - 430 (Advanced Writing Workshop)
 - 440 (Introduction to Peer Tutoring and Practice)
 - 445 (The Composing Process)
- 3 credits in advanced language and linguistics courses selected from English/Linguistics:
 - 400 (Introduction to English Linguistics)
 - 401 (History of the English Language)
 - 403 (Survey of Modern English Grammar)
 - 404 (Language, Power, and Identity)
 - 350 (Introduction to Linguistics)
- 3 credits in literature surveys (English 301-309)
- 3 credits in genre courses selected from English:
 - 326 (The Development of the Novel: subtitle)
 - 327 (The Development of the Short Story: subtitle)
 - 328 (Forms of Experimental Literature: subtitle)
 - 329 (Film and Literature: subtitle)
 - 361 (The Development of Poetry: subtitle)
- 3 credits in focus courses selected from English:
 - 451 (Chaucer)
 - 452 (Shakespeare)
 - 454 (Milton)
 - 456 (Writers in English Literature, 1500-1660: subtitle)
 - 457 (Writers in English Literature, 1660-1798: subtitle)
 - 458 (Writers in English Literature, 1798-1900: subtitle)
 - 459 (Writers in English Literature, 1900-Present: subtitle)
 - 460 (Writers in American Literature, 1800-1900: subtitle)
 - 461 (Writers in American Literature, 1900-Present: subtitle)
 - 465 (Women Writers: subtitle)
- 3 credits in literature and culture surveys selected from English:
 - 372 (Survey of American Indian Literature)
 - 373 (Survey of Ethnic Minority Literature)
 - 374 (Survey of U.S. Latino/a Literature)
 - 375 (Survey of Asian American Literature)
 - 376 (Survey of African American Literature to 1930)
 - 377 (Survey of African American Literature, 1930-Present)
 - 381 (World Literatures Written in English: subtitle)
- 3 credits in critical theory selected from English:
 - 378 (Survey of Current Literary and Cultural Theory)
 - 545 (Studies in the History of Literary Criticism: subtitle)
 - 547 (Studies in Theory and Criticism: subtitle)
- 3 credits in historical concentration courses selected from English:
 - 501 (Studies in Literature, 1500-1660: subtitle)
 - 504 (Studies in Literature, 1660-1800: subtitle)
 - 505 (Studies in Literature, 1800-1900: subtitle)
 - 507 (Studies in Literature, 1900-Present: subtitle)
 - 530 (Studies in Shakespeare: subtitle)
 - 621 (Seminar in the Literature of England: subtitle)
 - 623 (Seminar in American Literature: subtitle)
 - 624 (Seminar in Modern Literature: subtitle)
 - 627 (Seminar in Literature and Culture: subtitle)
 - 685 (Honors Seminar: subtitle)
- 3 credits in literature and culture concentration courses selected from English:
 - 514 (Literature in Context: subtitle)

- 515 (Literature and the Other Arts: subtitle)
- 517 (Studies in African American Literature: subtitle)
- 518 (Studies in Irish Literature: subtitle)
- 519 (Studies in Irish American Literature: subtitle)
- 520 (Studies in American Indian Literature: subtitle)
- 521 (Studies in Ethnic Minority Literature: subtitle)
- 523 (Studies in U.S. Latino/a Literature: subtitle)
- 524 (Studies in Asian American Literature: subtitle)
- 3 credits in a capstone seminar experience selected from English 620-632 (if not completed as historical concentration course)

Total = 36-39 credits

Track G: Professional and Technical Communications

General English Requirements

- 3 credits in English 215 (Introduction to English Studies)
- 6 credits in English courses outside of Track G at the 300 level or above (i.e., literature, rhetoric, creative writing, or film and media studies)

Professional and Technical Communications Core Courses

- 3 credits in English 439 (Information Design)
- 6 credits selected from any of the following:
 - English 426 (Professional and Technical Communications Research)
 - English 435 (Professional and Technical Communications)
 - English 448 (Technical Communications Theory and Practice)
- 3 credits in English 449 (Writing Internship in English) (satisfies L&S research requirement)
- 3 credits in English 600-level seminar

Professional and Technical Communications Practice

- 12 credits selected from any of the following:
 - 3 credits maximum selected from English 205, 206, 207, or 214
 - English 426 (Professional and Technical Communications Research)
 - English 431 (Topics in Advanced Communications: subtitle)
 - English 433 (Creative Nonfiction)
 - English 434 (Editing and Publishing)
 - English 435 (Professional and Technical Communications)
 - English 436 (Technical Documentation)
 - English 437 (Project Management)
 - English 443 (Grant Writing)
 - English 444 (Technical Writing)
 - English 448 (Technical Communications Theory and Practice)

Total = 36 credits

Track H: Media, Cinema, and Digital Studies

- 3 credits in English 215 (Introduction to English Studies)
- 6 credits selected from the following:
 - English 290 (Introduction to Film Studies)
 - English 291 (Introduction to Television Studies)
 - English 294 (Game Culture)

- 3 credits in writing or literature, selected from English 301-309, 325-328, 332-379, 381, 404, 414-423, 425-438, 447, 451-547
- 3 credits in either English 390 or 391
 - English/FilmStd 390 (Classical Film Criticism and Theory)
 - English/FilmStd 391 (Television Criticism and Theory)
- 12 credits in media, cinema, and digital studies, including at least 3 credits from each area selected from the following and no more than 3 credits in 200-level courses:

Media

- English/FilmStd 286 (Writing About Film and Television)
- English/FilmStd 291 (Introduction to Television Studies) (if not selected above)
- English/FilmStd 293 (Literature and Media: subtitle)
- English/FilmStd 380 (Media and Society: subtitle)
- English/FilmStd 391 (Television Criticism and Theory)
- English/FilmStd 394 (Theories of Mass Culture: subtitle)
- English 414 (Special Topics in Creative Writing: “Zines and Self-Publishing” subtitle)
- English 431 (Topics in Advanced Communications: with appropriate subtitle) (Contact Track H coordinator.)
- FilmStd 212 (Intermediate Topics in Film Studies: with appropriate subtitle)

Cinema

- English/FilmStd 286 (Writing About Film and Television)
- English/FilmStd 290 (Introduction to Film Studies) (if not selected above)
- English/FilmStd 295 (Women and Film)
- English/FilmStd 312 (Topics in Film Studies: subtitle)
- English/FilmStd 316 (World Cinema: subtitle)
- English/FilmStd 320 (Studies in Film Authorship: subtitle)
- English/FilmStd 329 (Film and Literature)
- English/FilmStd 383 (Cinema and Genre: subtitle)
- English/FilmStd 390 (Classical Film Criticism and Theory)
- English/FilmStd 392 (Contemporary Film Criticism and Theory)
- English/FilmStd 394 (Theories of Mass Culture: subtitle)
- English 414 (Special Topics in Creative Writing: “Screenwriting – Story/Structure” subtitle)
- FilmStd 212 (Intermediate Topics in Film Studies: with appropriate subtitle)
- FilmStd/Jewish 350 (Global Jewish Film and Television: subtitle)
- FilmStd 412 (Global Cinemas – Cinematic Practices in the Context of Globalization: subtitle)
- FilmStd 669 (Screening Sexuality: subtitle)
- FilmStd 690 (Seminar in Contemporary Film Theory) (if not selected as capstone)

Digital Studies

- English 294 (Game Culture) (if not selected above)
 - English/FilmStd 312 (Topics in Film Studies: "Cinema and Digital Studies" subtitle)
 - English 414 (Special Topics in Creative Writing: “Animated Texts” subtitle)
 - English 436 (Technical Documentation)
 - English 515 (Literature and the Other Arts: “From Dada to the Web” subtitle)
 - FilmStd 212 (Intermediate Topics in Film Studies: with appropriate subtitle)
- 6 credits in upper-level electives

3 credits in capstone seminar experience: FilmStd 690 (satisfies L&S research requirement)

Total = 36 credits

Honors in the Major

English majors need to meet the following three criteria in order to graduate with Honors in the Major:

1. minimum 3.000 cumulative GPA on all UWM graded credits attempted;
2. minimum 3.500 GPA on all credits attempted that count toward the major; and
3. minimum 3.500 GPA on all advanced (300+) credits that count toward the major.

Students who meet these criteria should apply to the coordinator of undergraduate studies.

Course of Study: Minor

The minor in English requires English 215 (Introduction to English Studies) and a minimum of 15 credits in English courses numbered 300 and above (at least 9 taken in residence at UWM) including at least one of the following: 451 (Chaucer), 452 (Shakespeare), 454 (Milton), or 530 (Studies in Shakespeare: [subtitle]). The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

For the teaching major and minor, see the School of Education section of this catalog.

Courses

[English \(ENGLISH\)](#)

[English as a Second Language \(ESL\)](#)

Cross-listed Courses

The following courses offered by other departments may be used to fulfill the requirements of the undergraduate major or minor in English:

Commun 300	Interviews and Interviewing
Commun 313	Human Communication and Technology
Commun 410	Organizational Communication Technology
JAMS 306	Feature and Magazine Article Writing
JAMS 562	Media Studies and Culture
Theatre 359	Playwriting I

Related Courses

The following courses offered by other departments may be of interest to students in English, but may not be used to fulfill the requirements of the undergraduate major or minor in English:

Commun 105	Business and Professional Communication
JAMS 201	Media Writing

Faculty

Gerald J. Alred, Prof. Emeritus, MA

Sukanya Banerjee, Assoc. Prof., PhD

University of California, Riverside

F. Xavier Baron, Prof. Emeritus, PhD

Kimberly M. Blaeser, Prof., PhD

University of Notre Dame

Gilberto M. Blasini, Assoc. Prof., PhD

University of California, Los Angeles

Director, Film Studies

Mary Louise Buley-Meissner, Prof., PhD

University of Washington

Marcus P. Bullock, Prof. Emeritus, PhD

Liam Callanan, Assoc. Prof., MFA

George Mason University

Brenda Cárdenas, Assoc. Prof., MFA

University of Michigan - Ann Arbor

David Clark, Assoc. Prof., PhD

Iowa State University

Associate Dean, Humanities

George Clark, Prof., PhD

Florida State University

Rebecca Dunham, Prof., PhD

University of Missouri

J. Denny Fischer, Asst. Prof., PhD

University of Illinois

Jane A. Gallop, Distinguished Prof., PhD

Cornell University

Alice M. Gillam, Assoc. Prof. Emerita, PhD

John A. Goulet, Prof. Emeritus, PhD

Scott Graham, Assoc. Prof., PhD

Iowa State University

Sandra Grayson, Prof., PhD

University of California, Riverside

Richard Grusin, Prof., PhD
University of California, Berkeley

J. Lane Hall, Prof., MFA
University of Wisconsin-Madison

Kristie G. Hamilton, Assoc. Prof., PhD
University of Texas at Austin
Director, Masters in Liberal Studies Program

Gregory S. Jay, Prof., PhD
State University of New York at Buffalo

Barrett Kalter, Assoc. Prof., PhD
Rutgers University

William Keith, Prof., PhD
University of Texas

Gwynne Kennedy, Assoc. Prof., PhD
University of Pennsylvania

Maurice Kilwein-Guevara, Prof., PhD
University of Wisconsin-Milwaukee

Andrew F. Kincaid, Assoc. Prof., PhD
University of Minnesota

James M. Kuist, Prof. Emeritus, PhD

Valerie Laken, Assoc. Prof., MFA
University of Michigan-Ann Arbor

Josepha Lanthers, Prof., PhD
University of Leiden, The Netherlands

Dennis Lynch, Assoc. Prof. Emeritus, PhD

Andrew V. Martin, Assoc. Prof. Emeritus, PhD

Patricia Mayes, Assoc. Prof., PhD
University of California, Santa Barbara

Margaret Mika, Sr. Lect., MA
University of Wisconsin-Milwaukee

Stuart Moulthrop, Prof., PhD
Yale University

Jane B. Nardin, Prof. Emerita, PhD

Mark Netzloff, Assoc. Prof., PhD, Chair
University of Delaware

Margaret Noodin, Assoc. Prof., PhD

University of Minnesota

Tasha G. Oren, Assoc. Prof., PhD

University of Wisconsin-Madison

Jason Puskar, Assoc. Prof., PhD

Harvard University

Peter Sands, Assoc. Prof., PhD, JD

Binghamton University, SUNY

Director, UWM Honors College

Kumkum Sangari, Prof., PhD

University of Leeds

Vilas Professor of English and the Humanities

Charles I. Schuster, Prof. Emeritus, PhD

Rachel Spilka, Assoc. Prof., PhD

Carnegie Mellon University

Bruce R. Stark, Assoc. Prof. Emeritus, PhD

Jocelyn Szczepaniak-Gillece, Asst. Prof., PhD

Northwestern University

William V. Van Pelt, Assoc. Prof, PhD

University of California, Santa Cruz

Carolyn Washburn, Sr. Lect., MSW

University of Pennsylvania

Tami Williams, Assoc. Prof., PhD

University of California, Los Angeles

Michael Wilson, Assoc. Prof., PhD

Cornell University

Anne Wysocki, Assoc. Prof. Emerita, PhD

Web Home Pages:

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Comparative Ethnic Studies

- Web Home Pages:
 - [College of Letters and Science](#)
 - [Ethnic Studies](#)
- [Courses: Ethnic Studies \(ETHNIC\)](#)

Rachel Buff, Professor of History, Coordinator; Holton Hall 313, (414) 229-6483

The Certificate in Comparative Ethnic Studies is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements.

Through coursework, independent study, internships, and/or service learning, students in comparative ethnic studies analyze the social processes by which concepts such as race, ethnicity, class, gender, and sexuality are given meaning. The program examines global and local processes of im/migration and settlement and considers ways in which policy and law, grassroots social movements, and popular cultures shape social identities.

The Certificate Program in Comparative Ethnic Studies is open to students majoring in any field, from any school or college. The purpose of the certificate program is to enable a student interested in an aspect of comparative ethnic studies to take a coordinated set of courses while completing the requirements for a degree in a conventional discipline or field of knowledge. Completion of the certificate program provides an opportunity for students to develop expertise in crucial contemporary and historical issues.

Requirements

To receive the certificate, the student must earn a minimum of 21 credits as stated below, at least 12 from UWM, with a grade point average of 2.750 or better. A minimum of 9 credits must be earned in upper-division (numbered 300 and above) courses. At least 18 credits must be taken in the Ethnic curricular area; the other 3 credits may be selected from the approved list of elective courses. Students may discuss their specific needs and programs of study with the program coordinator, Rachel Buff. Substitutions for credits in the Ethnic curricular area are subject to the approval of the program coordinator.

Courses for the certificate must include the following:

1. Ethnic 101 The Making of American Cultures: Africans, Europeans, and Indian Nations, 3 cr
2. Ethnic 102 Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity, 3 cr
3. Ethnic 550: Senior Seminar in Comparative Ethnic Studies, 3 cr
4. Electives to reach 21 cr

Approved Electives

Africology

100 Black Reality: Survey of African-American Society

102 Survey of African-American Literature

111 Introduction to African-American History to 1865

112 Introduction to African-American History, 1865 to the Present

121 Introduction to African-American Politics

125 Economics of the Black Community

163 African-American Concept of Self

210 The African-American Novel

228 Introduction to Black Political Economy

250 Black Women and White Women in the Contemporary United States

261 Survey of African-American Political Philosophy

265 Psychological Effects of Racism

300 Urban Violence

312 The Church in African-American Life

314 The School in African-American Life

319 History of Blacks in the American City

321 Black Workers in Technologic Society

322 Order and Disorder: The Quest for Social Justice

326 Economic Problems and Black Business

327 Black Business and Management

341 Black Politics and City Government

350 The Black Family

365 Recurring Philosophical Problems in African-American Literature

369 Mass Media and Black Self-Images

372 African-American Literary Movements: The Harlem Renaissance

402 Black Personality Development

411 Change in African-American Communities

412 Blacks and the United States Constitution

416 Race, Injustice, and Change in America

420 The Political Economy of Slavery

American Indian Studies

105 Ethnobotany: Plants in Anishinaabe Culture

106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy

262 North American Indian History to 1887

263 North American Indian History Since 1887

276 Introduction to American Indian Literature: (subtitle)

314 American Indian Societies and Cultures

320 Social Change in American Indian Societies

321 Contemporary Issues of the American Indian

372 American Indian Literature: (subtitle)

473 History of Wisconsin Indians

474 Topics in North American Indian History: (subtitle)

520 Studies in American Indian Literature: (subtitle)

Anthropology

150 Multicultural America

213 American Indian Peoples of Wisconsin

314 American Indian Societies and Cultures

332 American Indian Religions

334 American Indians of the Southwest

335 American Indians of the Southeast

336 American Indians of the Northeast

565 Seminar in Regional Archaeology: "Great Lakes Late Prehistory" subtitle

641 Seminar in Anthropology: "American Indian Material Culture" subtitle

Arabic

164 Arabs and Islam in America

Art History

355 American Folk Art

Economics

248 Economics of Discrimination

Educational Policy and Community Studies

314 The School in African-American Life

561 Education Issues in American Indian Communities

579 Current Topics in Cultural Foundations of Education: "Anti-Racist Education" subtitle

621 History of Native Education and Policy Development

625 Race Relations in Education

English

150 Multicultural America

276 Introduction to American Indian Literature: (subtitle)

277 Introduction to Ethnic Minority Literature: (subtitle)

280 Introduction to Asian-American Literature: (subtitle)

281 Introduction to African-American Literature: (subtitle)

372 American Indian Literature: (subtitle)

373 Survey of Ethnic Minority Literature

374 Survey of U.S. Latino/a Literature

375 Survey of Asian-American Literature

376 Survey of African-American Literature to 1930

377 Survey of African-American Literature, 1930 to the Present

463 Major Figures in African-American Literature: (subtitle)

517 Studies in African-American Literature: (subtitle)

519 Studies in Irish-American Literature: (subtitle)

520 Studies in American Indian Literature: (subtitle)

521 Studies in Ethnic Minority Literature: (subtitle)

523 Studies in U.S. Latino/a Literature: (subtitle)

524 Studies in Asian-American Literature: (subtitle)

624 Seminar in Modern Literature: "After Beckett - Contemporary Anglo-American Drama" subtitle

631 Seminar in African-American Literature: (subtitle)

632 Seminar in American Indian Literature: (subtitle)

Film

150 Multicultural America

Geography

114 Geography of Minorities in the United States

German

141 The German-Americans

341 Undergraduate Seminar in German-American Studies: The Germans in Wisconsin and Milwaukee

Hebrew Studies

252 American Jewish Community: 1654 to the Present

282 Jewish Identity in Contemporary America

History

150 Multicultural America

229 History of Race, Science, and Medicine in the United States

262 North American Indian History to 1887

263 North American Indian History Since 1887

266 Race, Racial Thought, and Prejudice in the United States

267 The History of Latinos in the United States

269 Asian Americans in Historical Perspective

404 Topics in American History: (with appropriate subtitle)

435 Ethnic America to 1880

436 Immigrant America Since 1880

439 The Italian-American Experience in the United States

445 Black Americans from Slavery to Freedom

446 Black Americans Since the Civil War

447 History of the Black Family in America

470 Recent American History: (with appropriate subtitle)

473 History of Wisconsin Indians

474 Topics in North American Indian History: (subtitle)

480 The Immigrant Experience: (with appropriate subtitle)

Hmong

265 Hmong Americans: History, Culture, and Contemporary Life

Italian

242 Topics in Italian American Studies: (subtitle)

243 Topics in Italian American Film: (subtitle)

Jewish

101 Jewish Culture in America: History, Literature, Film

210 Jewish and Ethnic Narratives and Identities in Media

260 Negotiating Religion and Nationalism: Jewish Experience in Europe and the Middle East

Journalism, Advertising, and Media Studies

450 Race and Ethnicity in the Media

Latino Studies

101 Introduction to Latino Studies

Philosophy

271 Philosophical Traditions: "Western Great Lakes American Indian Philosophy" subtitle

Political Science

215 Ethnicity, Religion, and Race in American Politics

Sociology

193 Freshman Seminar: "Latinos in the City"; "Buffalo to Bingo: Changing American Indian Societies" subtitles

215 Religion and Society

224 American Minority Groups

320 Social Change in American Indian Societies

321 Contemporary Issues of the American Indian

323 Perspectives on Latino Communities

Urban Studies

360 Perspectives on the Urban Scene: "The History of Milwaukee's Ethnic and Racial Communities" subtitle

Women's and Gender Studies

150 Multicultural America

Students also may earn a Committee Interdisciplinary Major in comparative ethnic studies. Anyone interested in the major or certificate should register with the Comparative Ethnic Studies Coordinator by the beginning of his/her junior year, at the latest.

The program is administered by the College of Letters and Science interdepartmental Comparative Ethnic Studies Advisory Committee.

Courses

[Ethnic Studies \(ETHNIC\)](#)

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Foreign Languages and Literature

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- Russian - See [Slavic Languages](#).
- Scandinavian Studies - See [Scandinavian Studies Certificate Program](#).
- [Slavic Languages](#)
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- Swedish - See [Scandinavian Studies Certificate Program](#).
- [Faculty](#)

The Department of Foreign Languages and Literature was formed in 1996. The department teaches modern and ancient languages, their literature, and the linguistic and philological study of these languages. The broad departmental structure encourages the development of cross-disciplinary academic undertakings.

Courses

[Foreign Languages and Literature \(FLL\)](#)

Arabic

The Department of Foreign Languages and Literature offers a minor in Arabic focused on the acquisition of language skills. A sequence of Arabic courses may be used to satisfy the foreign language requirement of the L&S degree. Additionally, Arabic courses may be of particular interest to students in the certificate in Middle Eastern and North African studies, the international studies major, the linguistics major, and the global studies degree program.

Course of Study: Minor in Arabic

The minor in Arabic consists of a minimum of 18 credits, with the following courses (or equivalents) required:

Arabic 201	Third Semester Arabic	5
Arabic 202	Fourth Semester Arabic	5
Arabic 301	Fifth Semester Arabic	3
Arabic 302	Sixth Semester Arabic	3

An additional upper-level culture course, at least 3 credits, to be met by a course approved by the Arabic Program Coordinator, or in one of the following ways:

Arabic 489	Internship	3
Arabic 497	Study Abroad	3
Arabic 499	Ad Hoc	3
Arabic 699	Independent Reading	3

Retro credits earned at the 200-level or above may count toward the minor. Students who begin their Arabic studies in higher-level courses may need to take additional credits, approved by the Arabic language coordinator, to reach a minimum of 18 credits in Arabic.

A minimum of nine credits must be taken at the 300-level or above in residence at UWM. The College requires that students attain at least a 2.500 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. Students entering with no previous Arabic language experience should enroll in Arabic 101. Students entering with previous knowledge of, or high school preparation in, Arabic, or transfer students who have studied Arabic in other colleges, are assigned to courses on the basis of a departmental placement consultation with the Arabic program coordinator. Students placed into a course beyond the 101 level who complete their first course with a grade of at least a B may receive retroactive credits, to a maximum of 16 credits (no more than 4 credits for any single course), for the courses leading to the one into which they placed.

Courses

[Arabic \(ARABIC\)](#)

Chinese

The Department of Foreign Languages and Literature offers both a Chinese major through the Committee Interdisciplinary Major and a minor in Chinese. Chinese language courses will satisfy the foreign language requirement of the L&S degree. Courses in Chinese also may be of interest to students pursuing the Asian Studies Certificate, the International Studies Major, and the Bachelor of Arts in Global Studies.

Course of Study: Major

The Chinese Language and Culture major requires completion of 30 credits in approved Chinese and related courses. Students in the major must complete the fifth- through eighth-semester Chinese courses as the core of the program. In addition, culture-related courses that are taught using the target language are required. Students must complete 30 credits to graduate, at least 15 of them at the advanced level (300 and above) taken in residence at UWM. The major requires a minimum of 18 credits at the 300

level or above taught in Chinese. The College requires that students attain at least a 2.500 GPA on all major credits attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

The following are required:

Chinese 301	Fifth Semester Chinese	4
Chinese 302	Sixth Semester Chinese	4
Chinese 401	Seventh Semester Chinese	3
Chinese 402	Eighth Semester Chinese	3

Students whose language skills allow them to begin their study of Chinese beyond the fifth semester course must discuss with the advisor appropriate substitute courses in order to complete the required 30 credits.

One of the following three courses:

Chinese 320	Contemporary Chinese Societies through Film	3
Chinese 330	Chinese Language and Culture	3
Chinese 441	Business Chinese	3

Capstone course: The following course serves as the capstone for the major and satisfies the research requirement of the L&S degree.

FLL 699	Independent Study (students enroll for 3 cr)	1-3
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Electives: Students select additional courses from the following approved electives to reach a total of 30 credits.

ArtHist 382	Chinese Art and Architecture	3
ArtHist 480	Chinese Painting	3
ArtHist 481	Topics in Chinese Art	1-3
Chinese 150	Contemporary Chinese Society and Culture	3
Chinese 160	A Taste of China: Learning Chinese Culture and Society through Cuisine	3
Chinese 200	Chinese Calligraphy	3
Chinese 320	Contemporary Chinese Societies through Film (if not selected above)	3
Chinese 330	Contemporary Language and Culture (if not selected above)	3
Chinese 397	Study Abroad	3
Chinese 441	Business Chinese (if not selected above)	3
Chinese 489	Internship in Chinese, Upper Division	3
Chinese 497	Study Abroad (highly encouraged)	3
Chinese 699	Independent Reading	1-3
CompLit 192	Freshman Seminar: "Secrets of Chinese Cinema" subtitle	3
CompLit 230	Literature and Society: "Chinese Literature before the 20th Century" subtitle	3
CompLit 360	Seminar in Literature and Cultural Experience: "Modern Chinese Literature" subtitle	3
CompLit 362	Transnational Asian Cinema: "New Chinese Cinema" subtitle	3
CompLit 363	Chinese Literature in the Global Context	3
Econ 193	First-Year Seminar: "Growth and Development in China, Japan, and Korea" subtitle	3
English 316	World Cinema: "Hong Kong Cinema" subtitle	3
Hist 175	East Asian Civilization to 1600	3
Hist 269	Asian Americans in Historical Perspective	3
Hist 376	History of Ancient China: Earliest Times to 220 A.D.	3
Hist 377	Modern China	3
Hist 378	Revolution in China	3
Linguis 200	Aspects of Language: "Introduction to Chinese Linguistics" subtitle (in process)	3
Philos 204	Introduction to Asian Religions	3
Pol Sci 314	Chinese Politics and Foreign Policy	3

Study Abroad:

Five courses (minimum 15 cr) from the approved list. At least 6 cr must be selected from courses focusing on world/global/international cinema, selected from English 316, FilmStd 412, or other appropriate courses approved by the coordinator. The following is a partial list. Other variable content courses with appropriate subtitles may be approved on a semester-by-semester basis to count toward the major. See the list published in the Schedule of Classes under affiliated Film Studies courses, the Film Studies website, or the program advisor.

Cours of Study: Minor

The minor in Chinese consists of 19 credits distributed as follows:

Chinese 201	Third Semester Chinese	5
Chinese 202	Fourth Semester Chinese	5
Chinese 301	Fifth Semester Chinese	3
Chinese 302	Sixth Semester Chinese	3

An additional, upper-level, 3-credit language course selected from the following:

Chinese 320	Contemporary Chinese Societies Through Film	3
Chinese 401	Seventh Semester Chinese	3
Chinese 402	Eighth Semester Chinese	3
Chinese 441	Business Chinese	3
Chinese 497	Study Abroad	3
Chinese 699	Advanced Independent Study	3

Related Programs

Asian Studies Certificate Program
Global Studies Degree
International Studies Major

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[Chinese \(CHINESE\)](#)

[Classics](#)

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- [Course of Study: Major](#)
- [Classical Civilization Major Concentration](#)
- [Greek and Latin Major Concentrations](#)
- [Course of Study: Classics Minor](#)
- [Courses: Classics \(CLASSIC\)](#)
- [Courses: Greek \(GREEK\)](#)
- [Courses: Latin \(LATIN\)](#)

The Classics program offers instruction in the ancient Greek and classical Latin languages and literatures and in the civilizations of Greece and Rome. Courses offered in the area of classical civilization do not require a knowledge of Greek or Latin.

Students planning to pursue graduate study in classics and related disciplines, or teaching certification in Latin, should consult with the Classics Program coordinator early in their undergraduate career.

Course of Study: Major

There are three major concentrations: Classical Civilization, Ancient Greek Language and Literature, and Classical Latin Language and Literature. Students who major in a Classics Program concentration must complete at least 15 credits of the major in 300-level or above courses in residence at UWM. All students must complete a research experience in their major. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM, including any transfer work.

Classical Civilization Major Concentration

This Concentration is intended for students who wish to study classical literature and culture without pursuing coursework in the original languages. Courses in ancient Greek and Latin are optional and may count toward fulfilling major requirements.

Completion of the major requires a minimum of 33 credits distributed as follows:

Classic 170	Classical Mythology	3
Classic 201	Introduction to Greek Life and Literature	3
Classic 202	Introduction to Roman Life and Literature	3

Nine additional credits in Classic (not Greek or Latin) courses at the 300 level or above.

For the remaining credits, students may choose from among any Classic, Greek, or Latin courses. Up to 6 credits of these elective courses may include approved courses in related disciplines (see list of approved courses below). A minimum of 15 credits in all courses taken for the major must be taken at the 300 level or above. Students must complete the L&S research requirement in the context of a Classic, Greek, or Latin course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

Electives

ArtHist 312	Minoan and Mycenaean Art and Archaeology
ArtHist 313	Greek Art and Archaeology
ArtHist 315	Art and Archaeology of Ancient Egypt
ArtHist 316	Roman Art and Archaeology
ArtHist 412	Cities and Sanctuaries of Ancient Greece
ArtHist 413	Greek Sculpture
ArtHist 414	Greek Vase Painting
ArtHist 416	Roman Architecture
Hebr St 236	The Biblical World
Hebr St/Hist 274	Ancient Egyptian Civilization
Hist 201	The Ancient World: The Near East and Greece
Hist 202	The Ancient World: The Roman Republic and Empire
Hist 303	A History of Greek Civilization: The Greek City-State
Hist 304	A History of Greek Civilization: The Age of Alexander the Great
Hist 307	A History of Rome: The Republic
Hist 308	A History of Rome: The Empire
Hist 370	Topics in the History of Religious Thought: "Paganism in the Ancient World" subtitle
Hist 371	Topics in European History: "Rome in the Age of Constantine – Society and Culture" subtitle
Hist 398	Honors Seminar: "Pagans and Christians in the Roman Empire" subtitle; "Medicine and Healing in Ancient Greece and Rome" subtitle
Philos 430	History of Ancient Philosophy
Philos 550 (450)	Plato
Philos 551 (451)	Aristotle
Philos 552 (452)	Special Topics in Ancient and Medieval Philosophy: (with appropriate subtitle)

Ancient Greek Language and Literature Major Concentration

The Ancient Greek Language and Literature major concentration requires the completion of 33 credits, including the following:

Greek 103	First Semester Greek	4
Greek 104	Second Semester Greek	4
Greek 205	Third Semester Greek (or equivalent)	4
Classic 201	Introduction to Greek Life and Literature	3

Four additional courses (12 credits) in Greek at the 300 level or above.

Six additional credits chosen from Greek, Latin, and/or Classic courses.

A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM. Students must complete the L&S research requirement in the context of a Greek or Classic course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

Classical Latin Language and Literature Major Concentration

The Classical Latin Language and Literature concentration requires the completion of 33 credits, including the following:

Latin 103	First Semester Latin	4
Latin 104	Second Semester Latin	4
Latin 205	Third Semester Latin (or equivalent)	4
Classic 202	Introduction to Roman Life and Literature	3

Four additional courses (12 credits) in Latin at the 300 level or above.

Six additional credits chosen from Latin, Greek, and/or Classic courses.

A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM. Students must complete the L&S research requirement in the context of a Latin or Classic course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

Course of Study: Classics Minor Concentrations

There are three minor concentrations: Classical Civilization, Ancient Greek Language and Literature, and Classical Latin Language and Literature. Completion of each minor concentration requires a minimum of 21 credits, at least 9 of which must be upper-division courses (300 level and above) completed in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Minor Concentration in Classical Civilization

The Classical Civilization minor concentration requires completion of a minimum of 21 credits, including the following:

Classic 170	Classical Civilization
Classic 201	Introduction to Greek Life and Literature
Classic 202	Introduction to Roman Life and Literature

Six additional credits in Classic (not Greek or Latin language) curricular area courses at the 300 level or above.

Six credits selected from among any Classic, Greek, or Latin courses; at least 3 of these credits must be at the 300 level or above.

Minor Concentration in Ancient Greek Language and Literature

The Ancient Greek Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

Greek 103	First Semester Greek
Greek 104	Second Semester Greek
Greek 205	Third Semester Greek (or equiv)

Nine additional credits, 6 of which must be in Greek at the 300 level or above; the remaining 3 credits may be in Greek or Classic at the 300 level or above.

Minor Concentration in Classical Latin Language and Literature

The Classical Latin Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

Latin 103 First Semester Latin
Latin 104 Second Semester Latin
Latin 205 Third Semester Latin (or equiv)

Nine additional credits, 6 of which must be in Latin at the 300 level or above; the remaining 3 credits may be in Latin or Classic at the 300 level or above.

Related Program

Ancient Mediterranean Studies Certificate Program

Courses

[Classics \(CLASSIC\)](#)

[Greek \(GREEK\)](#)

[Latin \(LATIN\)](#)

[German](#)

- Web Home Pages:
 - [College of Letters and Science](#)
 - [German](#)
- [Course of Study: German Major](#)
- [Course of Study: German Minor](#)
- [Courses: German \(GERMAN\)](#)

Since the acquisition of a foreign language and a basic familiarity with foreign cultures are prerequisites for a successful liberal arts education, the German program offers a structured sequence of language and conversation courses as well as a wide variety of literature and cultural history courses. The program trains students in the skills necessary for effective use of the language; provides students with a broad understanding of German, Austrian, and Swiss literature and culture; and seeks to interest the University and local community in events and developments in Germany and other German-speaking countries.

Students who have had no previous training in German should enroll in German 101. Those who have studied German in high school should take the placement exam in German, administered by the Testing Center, before enrolling; the exam is required for those who have had two or more years of high school German. After consultation with the department, a student may enroll in a course one level higher or lower than the one recommended by the placement examination.

Course of Study: German Major

The program offers a major in German that allows the student to concentrate in his/her area of interest: literature, philology, culture, or business.

All majors are required to take an advanced language proficiency exam, normally during the semester in which they complete 18 credits in the major.

The major requires a minimum of 30 credits in courses numbered 300 or above, at least 18 of them taken in residence at UWM. No more than 9 credits per semester will be accepted from study abroad. Required are German 331, 332, 333, and 334; four

additional courses at the 300 to 500 level (that are taught in German); and two courses at the 600 level.

The College requires students to complete a research experience in their major. Students fulfill this requirement in the context of the following courses:

German 488	Topics in German Philology: (subtitle)
German 525	Seminar in Advanced German Translation
German 641	Seminar on the Intellectual Tradition in German Literature and Thought: (subtitle)
German 643	Seminar on Genre Studies: (subtitle)
German 645	Seminar on Representative German Authors: (subtitle)
German 647	Seminar on Themes and Motifs in German Literature: (subtitle)
German 649	Seminar on Theoretical Approaches to German Literature: (subtitle)
German 651	Seminar on Contemporary German Literature: 1965 to the Present
German 671	Seminar on Phonetics
German 672	German for Professional Purposes
German 681	Seminar on the History and Structure of German

The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

Students are encouraged strongly to take at least 6 additional credits in related courses outside the program as recommended by their advisor. Majors must register with the program at the beginning of their candidacy.

Course of Study: German Minor

The minor in German requires a minimum of 21 credits in courses numbered 300 or above, at least 9 of them taken in residence at UWM. Four courses at the 300 level are required: German 331, 332, 333, and 334. Students must complete 9 additional credits by selecting courses from the 300 to 600 level. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Course of Study: Business German Minor

The business German minor consists of a minimum of 18 credits, including the following:

German 331	Intermediate German Grammar and Usage
German 332 (426)	Intermediate Conversation and Composition
German 333	Analysis of German Texts
German 360	German for the Global World
German 672 (461)	German for Professional Purposes

One of the following:

Bus Adm 201	Introduction to Financial Accounting
Bus Adm 330	Organizations
Bus Adm 360	Principles of Marketing

The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. Substitutions for some course requirements are possible and may include internships with firms doing business in German-speaking countries. Students also have the option of completing a Certificate in Business German offered by the *Goethe Institut*. For further information, consult the German Program Coordinator.

Courses

[German \(GERMAN\)](#)

Greek

See [Classics](#).

[Hebrew/Jewish Studies](#)

- Web Home Pages:
 - [College of Letters and Science](#)
 - [Hebrew/Jewish Studies](#)
- [Course of Study: Jewish Studies Major](#)
- Option A: Hebrew Studies
- Option B: Jewish Cultural Studies
- [Course of Study: Jewish Studies Minor](#)
- Option A: Hebrew Studies
- Option B: Jewish Cultural Studies
- [Related Programs](#)
- [Courses: Hebrew Studies \(HEBR ST\)](#)
- [Courses: Jewish Studies \(JEWISH\)](#)

The Department of Foreign Languages and Literature, in cooperation with the Center for Jewish Studies, offers a major in Jewish Studies. Students may choose between two tracks: Hebrew Studies, which requires proficiency in the Hebrew language and focuses on the texts and history of early Judaism, and Jewish Cultural Studies, which focuses on modern Jewish culture and history.

Course of Study: Jewish Studies Major

All majors in Jewish Studies are required to register with the program at the beginning of their candidacy and are encouraged to speak to the program coordinator as early as possible to plan a course of study. To be accepted into the major, students who wish to pursue the Hebrew Studies track must have a GPA of 2.500 in the first two years of Hebrew language courses.

Jewish Studies majors in both tracks must complete a minimum of 15 advanced-level (numbered 300 and above) credits in L&S courses taken in residence at UWM. A GPA of 2.500 is required in courses taken for the major at UWM and in all courses that count for the major, including transfer work.

REQUIRED COURSES (BOTH TRACKS)

Core Course – 3 credits

All Jewish studies majors must complete 3 credits selected from the following:

Hist 358 The Jews of Modern Europe: History and Culture (jointly offered with Jewish

358)

Hist 359	Introduction to Jewish History (jointly offered with Jewish 379)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with Hist 358)
Jewish 359	Introduction to Jewish History (jointly offered with Hist 379)

Research Requirement – 3 credits

To satisfy the College of Letters and Science research requirement, students must complete Jewish 500, Topics in Jewish Studies, which is offered every spring semester. In exceptional circumstances, and with the consent of the major coordinator, students may be permitted to fulfill their research requirement in a different course numbered 300 or above.

MAJOR TRACKS

Students must select one of the following two tracks:

Hebrew Studies Track

The Hebrew Studies track of the Jewish Studies major requires completion of four semesters of college-level Hebrew (through Hebr St 202) or equivalent preparation. Credits earned in satisfying this requirement count in the major GPA, but do not count in the 30 credits required for the major.

Students in the Hebrew Studies track are encouraged strongly to pursue study abroad in Israel and may apply transfer credits from an approved study-abroad program toward their major requirements.

In addition to satisfying the Hebrew language, core course, and research requirements, students in this track must complete 24 credits, as follows:

9 credits selected from the following:

Hebr St 100	Introduction to Judaism
Hebr St 231	Introduction to the Old Testament/Hebrew Bible
HebrSt 235	The Dead Sea Scrolls and the Bible
Hebr St 331	Topics in Biblical Literature: (all subtitles)
Hebr St 332	Women in the Bible

Electives – 15 credits from the courses not selected above and/or the following, which must include courses numbered 300 and above to reach a total of 15 advanced credits taken in residence at UWM.

* A maximum of 3 internship credits may count toward the major.

CompLit 461	Film-Fiction Interactions: "Holocaust Testimonials in Literature and Film"
English 507	Studies in Literature, 1900 to the Present: "Jewish American Literature from the Holocaust to the 21st Century"
FilmStd 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
Hebr St 100	Introduction to Judaism (if not selected above)
Hebr St 192	First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
Hebr St 199	Independent Study (as approved by program coordinator)
Hebr St 230	Bible Stories
Hebr St 231	Introduction to the Old Testament/Hebrew Bible (if not selected above)
Hebr St 235	The Dead Sea Scrolls and the Bible (if not selected above)
Hebr St 238	Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
Hebr St 254	Studies in Hebrew Culture: (all subtitles)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
Hebr St 289*	Internship in Hebrew Studies, Lower Division (as approved by program coordinator)
Hebr St 297	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 299	Ad Hoc: (all subtitles)
Hebr St 331	Topics in Biblical Literature: (all subtitles) (if not selected above)
Hebr St 332	Women in the Bible (if not selected above)
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
Hebr St 381	Honors Seminar: (subtitle) (as approved by program coordinator)
Hebr St 397	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 411	Old Testament Texts: (subtitle)
Hebr St 470	Readings in Rabbinic Literature: (all subtitles)

Hebr St 471	Introduction to the Midrash: (all subtitles)
Hebr St 489*	Internship in Hebrew Studies, Upper Level (as approved by program coordinator)
Hebr St 497	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 499	Ad Hoc: (all subtitles)
Hebr St 597	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 697	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 699	Independent Study (as approved by program coordinator)
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries
Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
Hist 363	Germany: Hitler and the Nazi Dictatorship
Hist 364	The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
Hist 370	Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)
Hist 401	Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
Jewish 101	Jewish Culture in America: History, Literature, Film
Jewish 192	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 193	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 199	Independent Study (as approved by program coordinator)
Jewish 247	Jewish Art, Literature, Culture: (all subtitles)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
Jewish 289*	Internship in Jewish Studies, Lower Division (as approved by program coordinator)
Jewish 297	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 299	Ad Hoc: (all subtitles)
Jewish 321	The Holocaust and the Politics of Memory
Jewish 328	The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with FilmStd 350)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with Hist 368)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
Jewish 449	Modern Jewish Thought
Jewish 489*	Internship in Jewish Studies, Upper Division (as approved by program coordinator)
Jewish 497	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 499	Ad Hoc: (all subtitles)
Jewish 699	Independent Study (as approved by program coordinator)
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328)
Pol Sci 371	Nationalism and Ethnic Conflict

Jewish Cultural Studies Track

The Jewish cultural studies track does not have a language requirement as part of the major track. Students in this track, however, complete language studies as part of their L&S degree requirements. Although no additional language courses are required beyond those required for the L&S degree, with the consent of the major coordinator, students may count up to 6 credits in appropriate language courses beyond the second semester. Students interested in considering advanced studies in Jewish Studies or a career in Jewish education are encouraged to take Hebrew. Credits earned in language courses approved by the coordinator count in the Jewish cultural studies major option GPA.

In addition to the core and research requirement courses, the following 24 credits are required:

12 credits selected from the following:

FilmStd 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
Jewish 101	Jewish Culture in America: History, Literature, Film
Jewish 247	Jewish Art, Literature, Culture: (all subtitles)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
Jewish 328	The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Film St 350)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
Jewish 421	Introduction to Yiddish Literature: (all subtitles)
Jewish 449	Modern Jewish Thought
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328)

Electives – a minimum of 12 credits from the following, which must include courses numbered 300 and above to reach a total of

15 advanced credits taken in residence at UWM.

* A maximum of 3 internship credits may count toward the major.

CompLit 461	Film-Fiction Interactions: "Holocaust Testimonials in Literature and Film"
English 507	Studies in Literature, 1900 to the Present: "Jewish American Literature from the Holocaust to the 21st Century"
FilmStd 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350) (if not selected above)
Hebr St 100	Introduction to Judaism (if not selected above)
Hebr St 192	First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
Hebr St 199	Independent Study (as approved by program coordinator)
Hebr St 230	Bible Stories
Hebr St 231	Introduction to the Old Testament/Hebrew Bible (if not selected above)
Hebr St 235	The Dead Sea Scrolls and the Bible (if not selected above)
Hebr St 238	Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
Hebr St 254	Studies in Hebrew Culture: (all subtitles)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261) (if not selected above)
Hebr St 289*	Internship in Hebrew Studies, Lower Division (as approved by program coordinator)
Hebr St 297	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 299	Ad Hoc: (all subtitles)
Hebr St 331	Topics in Biblical Literature: (all subtitles) (if not selected above)
Hebr St 332	Women in the Bible (if not selected above)
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368) (if not selected above)
Hebr St 381	Honors Seminar: (subtitle) (as approved by program coordinator)
Hebr St 397	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 411	Old Testament Texts: (subtitle)
Hebr St 449	Modern Jewish Thought
Hebr St 470	Readings in Rabbinic Literature: (all subtitles)
Hebr St 471	Introduction to the Midrash: (all subtitles)
Hebr St 489*	Internship in Hebrew Studies, Upper Level (as approved by program coordinator)
Hebr St 497	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 499	Ad Hoc: (all subtitles)
Hebr St 597	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 697	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 699	Independent Study (as approved by program coordinator)
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries
Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
Hist 363	Germany: Hitler and the Nazi Dictatorship
Hist 364	The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
Hist 370	Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)
Hist 401	Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
Jewish 101	Jewish Culture in America: History, Literature, Film (if not selected above)
Jewish 192	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 193	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 199	Independent Study (as approved by program coordinator)
Jewish 247	Jewish Art, Literature, Culture: (all subtitles) (if not selected above)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261) (if not selected above)
Jewish 289*	Internship in Jewish Studies, Lower Division (as approved by program coordinator)
Jewish 297	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 299	Ad Hoc: (all subtitles)
Jewish 321	The Holocaust and the Politics of Memory
Jewish 328	The Arab-Israeli Conflict (jointly offered with Pol Sci 328) (if not selected above)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with FilmStd 350) (if not selected above)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with Hist 368)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368) (if not selected above)
Jewish 371	Survey of Jewish Literature (IN PROGRESS)
Jewish 421	Introduction to Yiddish Literature: (all subtitles) (if not selected above)
Jewish 449	Modern Jewish Thought (if not selected above)
Jewish 489*	Internship in Jewish Studies, Upper Division (as approved by program coordinator)

Jewish 497	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 499	Ad Hoc: (all subtitles)
Jewish 699	Independent Study (as approved by program coordinator)
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328) (if not selected above)
Pol Sci 371	Nationalism and Ethnic Conflict

Course of Study: Jewish Studies Minor

A minor in Jewish Studies may be of particular interest to students earning a certificate in Middle Eastern and North African Studies, Cultures and Communities, and/or Comparative Ethnic Studies, or a major in Religious Studies. The minor requires completion of a minimum of 18 credits, at least 9 of which must be taken at the 300 level or above in residence at UWM. The College requires that students earn a GPA of at least 2.500 on all credits for the minor attempted at UWM. In addition, students must earn a GPA of 2.500 on all minor credits attempted, including any transfer work.

Students can attain a minor in Jewish Studies by following one of two tracks:

Hebrew Studies Track

The Hebrew Studies track of the Jewish Studies minor requires the following:

Two semesters (at least 6 cr) of Hebrew language courses. Students who test out of one or both semesters of language studies must substitute an alternative Hebr St course, selected in consultation with the program coordinator, for each semester skipped.

12 credits selected from the following, including 9 credits at the advanced level (300 and above) taken in residence at UWM:

FilmStd 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
Hebr St 100	Introduction to Judaism
Hebr St 192	First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
Hebr St 199	Independent Study (as approved by program coordinator)
Hebr St 230	Bible Stories
Hebr St 231	Introduction to the Old Testament/Hebrew Bible
Hebr St 235	The Dead Sea Scrolls and the Bible
Hebr St 238	Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
Hebr St 254	Studies in Hebrew Culture: (all subtitles)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
Hebr St 297	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 299	Ad Hoc: (all subtitles)
Hebr St 331	Topics in Biblical Literature: (all subtitles)
Hebr St 332	Women in the Bible
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
Hebr St 381	Honors Seminar: (subtitle) (as approved by program coordinator)
Hebr St 397	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 411	Old Testament Texts: (subtitle)
Hebr St 470	Readings in Rabbinic Literature: (all subtitles)
Hebr St 471	Introduction to the Midrash: (all subtitles)
Hebr St 497	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 499	Ad Hoc: (all subtitles)
Hebr St 597	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 697	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 699	Independent Study (as approved by program coordinator)
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries
Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
Hist 363	Germany: Hitler and the Nazi Dictatorship
Hist 364	The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
Hist 370	Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)
Hist 379	Introduction to Jewish History (jointly offered with Jewish 379)
Hist 401	Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
Jewish 101	Jewish Culture in America: History, Literature, Film

Jewish 192	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 193	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 199	Independent Study (as approved by program coordinator)
Jewish 247	Jewish Art, Literature, Culture: (all subtitles)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
Jewish 297	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 299	Ad Hoc: (all subtitles)
Jewish 321	The Holocaust and the Politics of Memory
Jewish 328	The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with FilmStd 350)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with Hist 368)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
Jewish 371	Survey of Jewish Literature (IN PROGRESS)
Jewish 379	Introduction to Jewish History (jointly offered with Hist 379)
Jewish 421	Introduction to Yiddish Literature: (all subtitles)
Jewish 449	Modern Jewish Thought
Jewish 497	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 499	Ad Hoc: (all subtitles)
Jewish 500	Topics in Jewish History: (all subtitles)
Jewish 699	Independent Study (as approved by program coordinator)
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328)
Pol Sci 371	Nationalism and Ethnic Conflict

Jewish Cultural Studies Track

The Jewish cultural studies track of the Jewish Studies minor requires 18 credits, including 9 credits at the advanced level (300 and above) taken in residence at UWM, distributed as follows:

One of the following:

Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
Hist 379	Introduction to Jewish History (jointly offered with Jewish 379)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with History 358)
Jewish 379	Introduction to Jewish History (jointly offered with History 379)

Two courses (6 credits) selected from the following:

FilmStd 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
Jewish 101	Jewish Culture in America: History, Literature, Film
Jewish 247	Jewish Art, Literature, Culture: (all subtitles)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
Jewish 328	The Arab-Israeli Conflict (jointly offered w/Pol Sci 328)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with FilmStd 350)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328)

Three courses (9 credits) selected from the following:

Hebr St 100	Introduction to Judaism
Hebr St 192	First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
Hebr St 199	Independent Study (as approved by program coordinator)
Hebr St 230	Bible Stories
Hebr St 231	Introduction to the Old Testament/Hebrew Bible
Hebr St 235	The Dead Sea Scrolls and the Bible
Hebr St 238	Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
Hebr St 254	Studies in Hebrew Culture: (all subtitles)
Hebr St 261	Representing the Holocaust in Words and Images (if not selected above) (jointly offered with Jewish 261)
Hebr St 297	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 299	Ad Hoc: (all subtitles)
Hebr St 331	Topics in Biblical Literature: (all subtitles)
Hebr St 332	Women in the Bible
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (if not selected above) (jointly offered with Jewish 368)
Hebr St 381	Honors Seminar: (subtitle) (as approved by program coordinator)

Hebr St 397	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 411	Old Testament Texts: (subtitle)
Hebr St 470	Readings in Rabbinic Literature: (all subtitles)
Hebr St 471	Introduction to the Midrash: (all subtitles)
Hebr St 497	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 499	Ad Hoc: (all subtitles)
Hebr St 597	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 697	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 699	Independent Study (as approved by program coordinator)
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries
Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
Hist 363	Germany: Hitler and the Nazi Dictatorship
Hist 364	The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
Hist 370	Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)
Hist 401	Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
Jewish 101	Jewish Culture in America: History, Literature, Film (if not selected above)
Jewish 192	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 193	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 199	Independent Study (as approved by program coordinator)
Jewish 247	Jewish Art, Literature, Culture: (all subtitles) (if not selected above)
Jewish 261	Representing the Holocaust in Words and Images (if not selected above)(jointly offered with Hebr St 261)
Jewish 297	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 299	Ad Hoc: (all subtitles)
Jewish 321	The Holocaust and the Politics of Memory
Jewish 328	The Arab-Israeli Conflict (if not selected above) (jointly offered with Pol Sci 328)
Jewish 350	Global Jewish Film and Television: (all subtitles) (if not selected above) (jointly offered with FilmStd 350)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with Hist 368)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (if not selected above) (jointly offered with Hebr St 368)
Jewish 371	Survey of Jewish Literature (IN PROGRESS)
Jewish 421	Introduction to Yiddish Literature: (all subtitles)
Jewish 449	Modern Jewish Thought
Jewish 497	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 499	Ad Hoc: (all subtitles)
Jewish 500	Topics in Jewish History: (all subtitles)
Jewish 699	Independent Study (as approved by program coordinator)
Pol Sci 328	The Arab-Israeli Conflict (if not selected above) (jointly offered with Jewish 328)
Pol Sci 371	Nationalism and Ethnic Conflict

Related Programs

Hebrew/Jewish Studies students also may be interested in the Comparative Ethnic Studies and the Religious Studies programs as well as the certificate program in Middle Eastern and North African Studies.

Courses

[Hebrew Studies \(HEBR ST\)](#)

[Jewish Studies \(JEWISH\)](#)

Japanese

The Department of Foreign Languages and Literature offers both a Japanese major through the Committee Interdisciplinary Major and a minor in Japanese. Japanese language courses will satisfy the foreign language requirement of the L&S degree. Courses in Japanese also may be of interest to students pursuing the Asian studies certificate, the international studies major, and the Bachelor of Arts in Global Studies.

Course of Study: Major

The Japanese Language and Culture major requires completion of 30 credits in approved Japanese and related courses. Students in the major must complete the fifth- through eighth-semester Japanese courses as the core of the program. In addition, culture-related courses that are taught using the target language are required. Students must complete 30 credits to graduate, at least 15 of them at the advanced (300 and above) level taken in residence at UWM. The major requires a minimum of 18 credits at the 300 level or above taught in Japanese. The College requires that students attain at least a 2.500 GPA on all major credits attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

The following are required:

Japan 301	Fifth Semester Japanese	4
Japan 302	Sixth Semester Japanese	4
Japan 401	Seventh Semester Japanese	4
Japan 402	Eighth Semester Japanese	4

Students whose language skills allow them to begin their study of Japanese beyond the fifth semester course must discuss with the advisor appropriate substitute courses in order to complete the required 30 credits.

One of the following four courses:

Japan 330	Japanese Language and Culture	3
Japan 331	Reading Japanese Short Stories	3
Japan 361	Translating Japanese Media	3
Japan 441	Business Japanese	3

Capstone course: The following course serves as the capstone for the major and satisfies the research requirement of the L&S degree.

Japan 500	Research and Writing in Japanese (Japanese majors enroll for 3 cr.)	1-3
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Electives: Students select additional courses from the following approved electives to reach a total of 30 credits. At least one course must be taken outside the Japan curricular area.

Anthro 325	Japanese Culture and Society	3
ArtHist 383	Japanese Art and Architecture	3
ArtHist 482	Topics in Non-Western Art History: "Japanese Architecture" subtitle	3
English 316	World Cinema: "Japanese Cinema" subtitle	3
Hist 394	History of Japan to 1600	3
Hist 395	History of Japan Since 1600	3
Hist 397	Postwar Japan	3
Japan 110	Japanese Popular Culture	3
Japan 200	Japanese Culture and Its Effect on Language	3
Japan 220	Introduction to Japanese Food Studies	3
Japan 297	Study Abroad	3
Japan 310	Enhanced Knowledge and Skills for the Japanese Language Proficiency Test	3
Japan 321	Analyzing Japanese Film Remakes	3
Japan 330	Japanese Language and Culture (if not selected above)	3
Japan 331	Reading Japanese Short Stories (if not selected above)	3
Japan 361	Translating Japanese Media (if not selected above)	3
Japan 397	Study Abroad	3
Japan 416	Introduction to Translation: Japanese to English	3
Japan 441	Business Japanese (if not selected above)	3
Japan 489	Internship in Japanese, Upper Division	
Japan 497	Study Abroad	3
Japan 500	Research and Research Writing in Japanese	3
Japan 699	Advanced Independent Study	1-3

Study Abroad

Students are strongly encouraged to study abroad. Up to 12 credits from study abroad programs will be accepted for the major. Any language credits acquired from study abroad must not duplicate language credits acquired from classes taken at UWM.

Course of Study: Minor

The minor in Japanese has the acquisition of language proficiency as its primary objective. Students take language courses through the third-year level, but the minor also allows coursework in Japanese culture, history, and politics. A minimum of 9 credits must be taken at the 300 level or above. A minimum of 9 credits must be taken in residence at UWM. Students entering with no previous Japanese language experience should enroll in Japan 101. Students entering with previous knowledge of, or high school preparation in, Japanese, or transfer students who have studied Japanese in other colleges, are assigned to courses on the basis of a departmental placement consultation with the Japanese program coordinator. Students placed into a course beyond the 101 level who complete their first course with a grade of at least a B may receive retroactive credits,* to a maximum of 16 credits, for the courses leading to the one into which they are placed. The College requires that students attain at least a 2.500 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Those who are able to begin their study of Japanese beyond the third-semester level will take additional elective credits, approved by the Japanese language coordinator, to complete at least 18 credits in the minor. Students must complete a minimum of 12 credits in language courses. The following (or equivalent or exemption) are required:

Japan 201	Third Semester Japanese	3
Japan 202	Fourth Semester Japanese	3
Japan 301	Fifth Semester Japanese	3
Japan 302	Sixth Semester Japanese	3
At least 3 additional credits, selected from courses in Japanese above 102 or from the following:		
Anthro 325	Japanese Culture and Society	3
ArtHist 383	Japanese Art and Architecture	3
English 316	World Cinema (Japanese subtitle)	3
Hist 394	History of Japan to 1600	3
Hist 395	History of Japan Since 1600	3
Hist 397	Postwar Japan	3
Pol Sci 313	Japanese Politics and Foreign Policy	3

* Retroactive credits earned at the 200 level or above may count toward the minor.

Related Programs

Asian Studies Certificate Program
Global Studies Degree
International Studies Major

Courses

[Japanese \(JAPAN\)](#)

Korean

For students interested in studying Korean to satisfy the foreign language requirement of the L&S degree, the Asian Studies Certificate, and/or the International Studies major, the Department of Foreign Languages and Literature offers a four-semester sequence in Korean.

Courses

[Korean \(KOREAN\)](#)

Latin

See [Classics](#).

Polish

See [Slavic Languages](#).

Russian

See [Slavic Languages](#).

Scandinavian Studies

See [Scandinavian Studies](#) in Certificate Programs section.

Veronica Lundback, *Lecturer, German, Department of Foreign Languages and Literature, Coordinator; CRT 896, (414) 229-4547, lundback@uwm.edu*

The Scandinavian Studies Certificate Program is open to all students seeking a bachelor's degree from UWM and to students who previously received a bachelor's degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree receive the certificate upon completion of the program requirements.

To complete the certificate, students must earn a minimum GPA of 3.000 in 18 credits of Scandinavian Studies courses, as listed below.

The majority of the certificate requirements may be completed at Mälardalen University, UWM's sister university in Sweden. Students attending Mälardalen University pay UWM tuition and take courses on the Swedish language and Scandinavian culture. Students also may take courses in pursuit of their other academic interests, either in Swedish or in English.

Scandinavian Languages: 6 credits

ScndvSt 101 (German 180)	First Semester Swedish	3
ScndvSt 102 (German 180)	Second Semester Swedish	3
ScndvSt 203 (German 180)	Third Semester Swedish	3
ScndvSt 204 (German 180)	Fourth Semester Swedish	3

Scandinavian Studies: 12 credits (may include additional language courses)

Courses may also be selected from the approved list (below) or from other appropriate courses identified and approved by the program coordinator.

CompLit 240	Norse Mythology	3
Geog 239	Geography of Scandinavia	3
German 114	Scandinavian Life and Culture	3
German 115	Seminar on Scandinavian Culture: (subtitle)	3
German 270	German Myths and Legends: "The Vikings" subtitle	3
German 699	Independent Study: "Hans Christian Andersen" and/or "Nineteenth Century Scandinavian Literature" subtitles (Additional appropriate courses may be offered under this rubric.)	3
Hist 371	Topics in European History: "History of the Vikings" subtitle	3
Philos 433	Nineteenth Century Philosophy	3

or	Philos 435	Existentialism	3
or	Philos 453	Special Topics in the History of Modern Philosophy: (with appropriate subtitle)	3

Scandinavian studies courses completed elsewhere, with the approval of the program coordinator, will be accepted in partial fulfillment of the requirements of the certificate.

Courses

[Scandinavian Studies \(SCNDVST\)](#)

Slavic Languages

- Web Home Pages:
 - [College of Letters and Science](#)
 - [Slavic Languages](#)
- [Course of Study: Russian Major](#)
- [Course of Study: Russian Minor](#)
- [Courses: Polish \(POLISH\)](#)
- [Courses: Russian \(RUSSIAN\)](#)

The Slavic Languages program offers coursework in Polish and Russian. Through the study of these languages, students gain exposure to the literature and culture of the eastern European areas in which these languages are spoken. The program offers a major in Russian. In addition, the Slavic languages are an integral part of the Russian and East European Studies Certificate Program.

Study of these languages meets the foreign language requirement of the College of Letters and Science. Students with previous high school preparation in any of these areas should consult with the program coordinator to determine the appropriate level at which to begin their language studies. Coursework through the fourth-semester level is designed to prepare students in the four basic language skills: listening comprehension, speaking, reading, and writing. The beginning language sequences are as follows:

Polish

Polish 101	First-Semester Polish	4
Polish 102	Second-Semester Polish	4
Polish 201	Third-Semester Polish	3
Polish 202	Fourth-Semester Polish	3

Russian

Russian 101	First-Semester Russian	5
Russian 102	Second-Semester Russian	5
Russian 201	Third-Semester Russian	4
Russian 202	Fourth-Semester Russian	4

Course of Study: Russian Major

The Russian major requires completion of four semesters of college-level Russian (through Russian 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the major GPA. In addition, majors must complete 30 credits as follows:

- Core courses: 18 additional credits in Russian, including 310 and 311;
- Electives: 12 additional credits in Russian and/or in cross-listed and related courses, selected from the two lists below. A

maximum of 3 credits from the list of related courses can count toward this requirement.

Majors must complete at least 15 credits in advanced-level courses (300 and above) in residence at UWM; at least 9 of these credits must be in the Russian curricular area. Students must attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, the College requires that students attain a 2.500 GPA on all major credits attempted, including any transfer work. Major courses taken outside the Russian curricular area count in the major GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive study abroad should contact the program coordinator to discuss the college's residency requirement.

As part of their required credits, all students must complete a research experience as required by the College. Students will satisfy this requirement in the context of one of the following courses:

Russian 391	Russian Literature and Culture in Translation: (subtitle)
Russian 699	Supervised Individual Reading

Cross-listed Courses. The following courses are approved to satisfy the requirements of the Russian major and minor. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list.

English 316	World Cinema: "Russian Cinema" subtitle
Ethnic 250	Selected Topics in Ethnic Studies: "Gender and Ethnicity in and After the USSR" subtitle
Geog 444	Former Soviet Union: Regional Analysis
Geog 445	Former Soviet Union: Topical Analysis
Hist 340	Early Russia Through Ivan the Terrible, Peter the Great, and Catherine the Great
Hist 341	Imperial Russia
Hist 343	Russia Since 1917
Hist 367	Women in Soviet Society: A Historical Survey
IntlSt 550	Senior Seminar in International Studies: "Russia in Transition: Media and Values" subtitle
Pol Sci 310	Politics of the Soviet Union and Its Successor States
Pol Sci 311	Russian Foreign Policy

Related Courses. The following courses are approved to satisfy the requirements of the Russian major. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list. Majors may count a maximum of three credits from the following list toward the major requirements:

Econ 256	Emerging Markets and Comparative Systems
Geog 238	East Europe
Hebr St 103	Introductory Yiddish
Hist 249	The Second World War in Europe
Hist 375	Contemporary European History, 1945 to the Present
Linguis	All advanced-level courses
Polish	All courses
Pol Sci 302	Politics of Eastern Europe

Course of Study: Russian Minor

The Russian minor requires completion of four semesters of college-level Russian (through Russian 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the minor GPA. In addition, minors must complete 18 credits as follows:

- Core courses: 6 credits in advanced Russian language courses (310, 311);

6 additional credits in the Russian curricular area (language beyond 202, literature, culture, film);

- Electives: 6 credits in Russian and/or courses selected from the list of cross-listed courses following the Russian major.

At least 9 credits must be completed in advanced-level courses in residence at UWM; at least 6 of these credits must be in the Russian curricular area. Students must attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, the College requires that students attain a 2.500 GPA on all minor credits attempted, including transfer work. Minor courses taken outside the Russian curricular area count in the minor GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive advanced-level coursework at a Russian university should contact the program coordinator to discuss the College's residency requirement.

Courses

[Polish \(POLISH\)](#)

[Russian \(RUSSIAN\)](#)

Swedish

See [Scandinavian Studies](#).

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Director, Center for Jewish Studies

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Coordinator, German

Related Programs

[Ancient Mediterranean Studies Certificate Program](#)

[Asian Studies Certificate Program](#)

[Global Studies Degree](#)

[International Studies Major](#)

[Russian and East European Studies Certificate Program](#)

Web Home Pages:
[[College of Letters and Science](#)]
[[Foreign Languages and Literature](#)]
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[[Ancient Mediterranean Studies Certificate Program](#)]
[[Asian Studies Certificate Program](#)]
 [[Global Studies Degree](#)]
 [[International Studies Major](#)]
[[Russian and East European Studies Certificate Program](#)]
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[UWM Undergraduate Catalog 2017-2018](#)

[College of Letters and Science](#)

French, Italian, and Comparative Literature

- Web Home Pages:
 - [College of Letters and Science](#)
 - [French, Italian, and Comparative Literature](#)
- [French](#)
- [Italian](#)
- [Comparative Literature](#)
- [Courses: Comparative Literature \(COMPLIT\)](#)
- [Courses: French \(FRENCH\)](#)
- [Courses: Italian \(ITALIAN\)](#)
- [Faculty](#)

The study of languages has been the fundamental basis of liberal education since the Renaissance, and it is crucial to learning in the 21st century as technologies create global channels of communication. This department, therefore, is committed to promoting the study of at least one second language in order to enable students to participate in the world of international communities and, moreover, to appreciate and contribute to a broad spectrum of diverse cultures. The Department of French, Italian, and Comparative Literature offers a complete sequence of courses in two languages and in the literatures and cultures of the world.

The department follows the Credit for Demonstrated Equivalent Preparation policy (see the Admission section of this catalog or the chair of the department).

French

Students who have had no previous training in French should enroll in French 103 (or an equivalent course). Those who have studied French in high school should take the placement examination in French, administered by the Testing Office, before enrolling; the exam is required for those who have had two or more years of high school French. After consultation with the department, a student may enroll in a course one level higher or lower than the one recommended by the placement examination.

Those who wish to become French majors can do so, once they have completed French 204 or equivalent, by registering with the French major advisor. To be accepted and to continue as majors, they must maintain at least a 2.500 GPA in French courses attempted at UWM. In addition, students must attain a 2.500 GPA in all major credits attempted, including any transfer work. French 213, "Grammar for Students of Foreign Languages," is recommended for French majors and minors. Students also are encouraged to take courses in other literatures and Comparative Literature.

Course of Study: French Major

The major in French consists of 27 credits, at least 15 numbered above 303 taken in residence at UWM. The department offers two options: a French and Francophone option and a French Translation option. Both options require the following credits:

1. 9 credits in skills courses: French 324, 325, and 332. (These courses may be taken in any order, including simultaneously; however, the department recommends taking them in the order listed here.)
2. 6 credits in the following: French 428, 429, 430. (The student satisfies the research requirement of the College of Letters and Science by taking any one of the preceding courses at UWM or by taking any of the following

courses at UWM: French 431, 432, 433, 450, 510, or 592. Students taking any of these courses and wishing to fulfill the research requirement should inform their instructor at the beginning of the semester in which they take the course.)

The **French and Francophone** option requires 12 additional credits in courses numbered above 350 for a total of at least 27 credits in advanced-level French courses.

The **French Translation** option requires 12 additional credits in courses numbered above 350 for a total of at least 27 credits, including the following:

- French 415 Introduction to Translation: French to English
- One of the following two courses:
 - French 465 Introduction to Translation: English to French
 - French 515 Seminar in Advanced Translation: French to English
- One elective course in French numbered above 350
- One elective course in literature in French numbered above 400

All majors are required to pass an advanced language proficiency examination, which they are advised to take during the semester in which they complete 18 credits in the major.

Course of Study: French Minor

The minor in French consists of a minimum of 18 credits as follows:

- 204 and 303 and 332 or equivalent (9 cr);
- 9 credits in French literature, language, and culture above the 300 level;
- 9 credits numbered 300 or above taken in residence at UWM; and
- 2.500 GPA on all French credits attempted at UWM as well as a 2.500 GPA on all credits attempted for the minor, including any transfer credits.

Course of Study: Business French Minor

The business French minor consists of a minimum of 18 credits taken in one of two tracks. The curriculum includes courses in business administration for non-business students and courses in the practical and professional use of the French language as well as understanding of Francophone culture for business students. Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Non-Business Student Track

Bus Adm 330	Organizations	3
French 311	French for International Business/Professional Communication: Oral Emphasis	3
French 361	French for International Business/Professional Communication: Writing Focus	3
<i>Either of the following two courses:</i>		
Bus Adm 201	Introduction to Financial Accounting	3
Bus Adm 360	Principles of Marketing	3
<i>One of the following courses in cultures of the French-speaking world:</i>		
French 324 (327)*	Contemporary French Language and Culture	3
French 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries	3
French 432	Seminar in French and Francophone Cultures: (subtitle)	3
French 450	Institutions and Culture of Contemporary France	3
French 451 (351)*	Cinema of the French-Speaking World: (subtitle)	3

At least 3 cr in the following courses in French oral and written communication:

French 210	French Immersion: Intermediate	1-2
French 303*	Conversation and Composition: Intermediate Level	3
French 324*	Contemporary French Language and Culture (if not selected above)	3
French 325	Intensive Grammar and Usage	3
French 410	French Immersion: Advanced	1-2
French 411	Conversation and Composition: Advanced Level	2-3
French 415 (425)	Introduction to Translation: French to English	3

Business Student Track

French 203	Third-Semester French	3
French 204	Fourth-Semester French	3
Note: Students who place into 303 (fifth semester) and above, and therefore are exempt from taking 203 and 204, are expected to take 6 additional credits in language and culture at the 300 level and above.		
French 311	French for International Business/Professional Communication: Oral Emphasis	3
French 361	French for International Business/Professional Communication: Writing Focus	3

One of the following courses in cultures of the French-speaking world:

French 324*	Contemporary French Language and Culture	3
French 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries	3
French 432	Seminar in French and Francophone Cultures: (subtitle)	3
French 450	Institutions and Culture of Contemporary France	3
French 451*	Cinema of the French-Speaking World: (subtitle)	3

At least 3 cr in the following courses in French oral and written communication:

French 210	French Immersion: Intermediate	1-2
French 303*	Conversation and Composition: Intermediate Level	3
French 324*	Contemporary French Language and Culture (if not selected above)	3
French 325	Intensive Grammar and Usage	3
French 410	French Immersion: Advanced	1-2
French 411	Conversation and Composition: Advanced Level	2-3
French 415 (425)	Introduction to Translation: French to English	3

* These courses satisfy GER-HU distribution requirements.

Substitutions for some course requirements are possible and may include internships with firms doing business in French-speaking countries (including Canada). Students also have the option of completing a Certificate in Business French offered by the Paris Chamber of Commerce. For further information, consult the French Program Coordinator.

Italian

The Italian program offers a rich array of language classes at all levels as well as courses in culture and civilization, film, and literature. Students entering with previous knowledge of, or high school preparation in, Italian, or transfer students who have studied Italian in other colleges, are assigned to courses on the basis of a departmental placement exam.

Italian 213, "Grammar for Students of Foreign Languages," is recommended for Italian majors and minors. Students also are encouraged to take courses in other literatures and Comparative Literature.

Course of Study: Italian Major

Students who wish to become Italian majors may do so, once they have completed Italian 104 or equivalent, by

registering with the Italian major advisor. To be accepted and to continue as majors, they must maintain at least a 2.500 GPA in all Italian courses attempted at UWM. In addition, the College requires students to attain a 2.500 GPA in all major credits attempted, including any transfer work.

The major in Italian may be completed in one of the following options:

Option A (Italian). 24 credits in Italian courses at the 300 level and above, at least 15 taken in residence at UWM. These must include:

- Italian 311, 321, 322, and 457;*
- 6 additional credits in advanced literature courses; and
- 6 credits in Italian electives numbered 300 and above.

Option B (Italian Studies). 38 credits distributed as follows:

- 14 credits of first- and second-year Italian language;
- Italian 257 or 258;
- Italian 457;*
- 6 additional credits in Italian electives; and
- 12 additional credits selected from Italian and/or cross-listed courses. (See cross-listed courses at end of Italian courses; see also *Schedule of Classes* for specific semester offerings. Please note, the advanced, 300-level Italian language courses 311, 312, 321, and 322 are not sequential, and may be taken in any order, for example 321 before 311.)

At least 15 of the 38 credits must be earned in courses at the 300 level and above taken in residence at UWM.

* Both options of the major require that students complete a research experience. To fulfill this requirement, students must complete, with a passing grade, Italian 457, Topics in Italian Literature and Culture in Translation: (subtitle). Students will conduct independent research related to the general theme of the course, presenting their research in a final 10- to 12-page paper.

Course of Study: Italian Minor

The Italian minor requires 18 credits distributed as follows: 6 credits in advanced language courses (Italian 311 and 312); 12 additional credits within the Italian curricular area, including courses in language (beyond the first year), literature, film, culture, and civilization. At least 9 credits must be taken at the 300 level or above in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Comparative Literature

Comparative literature is concerned with the study of literature from a transnational, interdisciplinary perspective. The exciting range of courses trains students to analyze literatures from around the globe, as well as their relationships to other arts such as film, painting, and music; to such disciplines as history, philosophy, and anthropology; and to social, cultural, and political movements. While working across national borders, courses (taught in English) examine diverse literary genres and movements, historical periods, and topics related to gender, ethnicity, religion, and race, among other subjects.

Course of Study: Comparative Literature Major

The program welcomes prospective majors who have maintained a minimum 2.500 GPA in their language and literature courses during the freshman and sophomore years. Prospective majors should meet with the Comparative Literature coordinator to declare the major. Students are assigned a Comparative Literature advisor in their primary areas of interest. The advisor helps students design plans of study tailored to their particular interests, academic goals, and professional aspirations.

Comparative literature majors are encouraged to take additional literature courses offered in languages other than English when possible. They also are encouraged to take additional courses outside of the program in the analysis of literature and other arts. In many cases, these courses may be counted toward the comparative literature major.

Credit Requirements

A total of 36 credits is required for the major, including CompLit 207 and 208 and at least 24 credits at the advanced level (numbered 300 and above). At least 15 of the advanced credits must be taken in residence at UWM. Students may count toward the major up to 6 credits in CompLit 133, 135, 230, 231, 232, and 233 selected in consultation with their advisor. All CompLit courses and approved electives that a student takes will count in calculating the major GPA. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

The department offers two options for the major. Both major options require that, in their senior year, students complete a research project that focuses on major theoretical and critical trends in comparative literature. Students may fulfill this requirement by completing one of the following courses.

CompLit 463	Literary Criticism: Major Authors
CompLit 464	Seminar in Contemporary Literary Criticism: (subtitle)

Option A. This option is recommended particularly for students who intend to pursue graduate work in comparative literature.

Option A students must complete the following:

1. CompLit 207 and 208, 6 cr;
2. CompLit courses numbered 300 and above, including either CompLit 463 or 464, 12-15 cr;
3. Advanced literature courses (numbered 300 and above) offered in a foreign language, 9-12 cr; and
4. Electives selected from approved courses (including CompLit 133, 135, 230, 231, 232, and 233) to reach a total of 36 cr.

Option B. This option is offered for students with little if any training in a foreign language. Though such work normally is not considered as suitable preparation for graduate work in comparative literature, Option B offers training that is useful and applicable in many academic and professional fields.

Option B students must complete the following:

1. CompLit 207 and 208, 6 cr;
2. CompLit courses numbered 300 and above, including either CompLit 463 or 464, 15 cr;
3. Advanced courses (300 and above) in the analysis of literature or the other arts offered by CompLit or by other related departments and programs, with the approval of the CompLit advisor. This includes literature-in-translation courses offered by foreign language programs as well as courses in Art History, English, Film Studies, Philosophy, Religious Studies, or other disciplines that have as their focus the study of literature and/or the other arts, 9 cr; and
4. Electives selected from CompLit 133, 135, 230, 231, 232, 233, and CompLit courses numbered 300 and above to reach a total of 36 cr.

Course of Study: Comparative Literature Minor

The minor requires 18 credits, including CompLit 207 and 208; one of CompLit 133, 135, or a 200-level thematic course; and 9 credits at the advanced level (numbered 300 or above), which must be taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Courses

[Comparative Literature \(COMPLIT\)](#)

[French \(FRENCH\)](#)

Related Course

The following course offered by the Department of Linguistics may be of interest to students concentrating in French. It may not, however, be used to fulfill curricular requirements of the undergraduate major in French.

Linguistics 470	Historical/Comparative Linguistics	3
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[Italian \(ITALIAN\)](#)

Cross-listed Courses

The following courses offered by other departments may be used to fulfill the curricular requirements of the undergraduate major in Italian Option B (Italian Studies).

ArtHist 333	High Renaissance Art in Italy	3
ArtHist 431	Renaissance Architecture in Italy	3
ArtHist 447	Topics in Early Modern Art: "Women and Art in Italy: 1350-1700" subtitle	3
CompLit 230	Literature and Society: "Narratives of Shelter in WWII Italy" subtitle	3
ComLit 231	Literature and Religion: "Italians and the Holocaust" subtitle	3
Hist 325	The Renaissance	3

FICL Faculty

Anita Alkhas, Assoc. Prof., PhD, French
Michigan State University

Lawrence Baldassaro, Prof. Emeritus, PhD, Italian

Sarah Davies Cordova, Prof., PhD, French
University of California, Los Angeles

Lawrence Kuiper, Assoc. Prof., PhD, French, Chair
Michigan State University
Coordinator, French

James Mileham, Assoc. Prof. Emeritus, PhD, French

Simonetta Milli-Konewko, Assoc. Prof., PhD, Italian
University of Wisconsin-Milwaukee

Peter Paik, Assoc. Prof., PhD, Comparative Literature
Cornell University

Robin Pickering-Iazzi, Prof., PhD, Comparative Literature/Italian
University of Washington
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Kristin Pitt, Assoc. Prof., PhD, Comparative Literature
University of Wisconsin-Madison
Chair, MALLT

Nicolas Russell, Assoc. Prof., PhD, French
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Caroline Seymour-Jorn, Assoc. Prof., PhD, Anthropology (Arabic)
University of Chicago

Bruce R. Stark, Assoc. Prof. Emeritus, PhD, Comparative Literature

Roy Arthur Swanson, Prof. Emeritus, PhD, Comparative Literature

Madeleine Velguth, Prof. Emerita, PhD, French

Gabrielle Verdier, Prof. Emerita, PhD, French

Demetrius Williams, Assoc. Prof., ThD, New Testament and Christian Origins/Comparative Religion
Harvard Divinity School
Coordinator, Comparative Literature

Jian Xu, Assoc. Prof., PhD, Comparative Literature
University of Iowa

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Geography

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Geography is the study of the earth as created by natural forces and modified by human actions. It analyzes spatial patterns and locational associations of human and physical environments. It is concerned with people's interrelationships with their environments now, in the past, and in the future. The Department of Geography includes the Cartography and Geographic Information Science (GIS) Center and works closely with the American Geographical Society Library, one of the largest holdings of geographical materials in the world. For the purpose of satisfying various degree requirements, some courses in geography are classified as natural science while others are classified as social science. Consult the current L&S degree requirements website (uwm.edu/geography/undergraduate/major/geographical-information-track/major-requirements/) to determine which courses count as natural science.

Course of Study: Major

Students must meet with the department's undergraduate advisor to declare geography as a major. All majors must complete the 24- or 25-credit core curriculum and the additional requirements as defined in one of the five tracks: 1) geographic information; 2) urban; 3) environmental; 4) physical systems; or 5) globalization and development. Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. The physical systems track is recommended for Bachelor of Science students. In satisfying their major requirements, all students must complete at least 37 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the GPA. Majors must have a 2.500 GPA in all geography credits attempted at UWM. In addition, students must attain a 2.500 GPA in all major credits attempted, including any transfer work.

CORE CURRICULUM

All geography majors must complete the following 24-25 credits in geography:

a) One of the following introductory courses in human geography, 3 cr:

Geog 105 Introduction to Human Geography

Geog 110 The World: Peoples and Regions

Geog 114 Geography of Minorities in the United States

Geog 140 Our Urban Environment: Introduction to Urban Geography

(Students in the Urban Track are required to take Geog 140.)

b) One of the following introductory courses in physical or environmental geography, 3 cr:

Geog 120 Our Physical Environment

Geog 125 Introduction to Environmental Geography

(Students in the Physical Systems Track must take Geog 120; those in the Environmental Track must take Geog 125.)

c) One of the following mid-level (200 or above) regional or world geography courses, 3 cr:

Geog 213 Geography of Asia

Geog 214 Wisconsin

Geog 216 (510) Geography of the United States and Canada

Geog 231 (130) Geography of Islam

Geog 309 Nationalities and Nations of the World

Geog 315 Globalization and Economic Development

Geog 330 Europe: East and West

Geog 400 Population, Environment, Development

Geog 410 Gendered Geographies

Geog 421 Geography of Latin America

Geog 470 Geography of South Asia

d) Geog 215 Introduction to Geographic Information Science, 3 cr

e) Geog 247 Quantitative Analysis in Geography, 3 cr

f) One of the following upper-level techniques courses, 3-4 cr:

Geog 403 Remote Sensing: Environmental and Land Use Analysis

Geog 405 Cartography

Geog 437 Qualitative Methods in Geography

Geog 525 Geographic Information Science

Geog 547 Spatial Analysis

(Students in the Geographic Information Track must take Geog 525.)

g) Geog 600 Perspectives on Geography, 3 cr (satisfies L&S research requirement)

h) One of the following fieldwork courses, 3 cr:

Geog 650 Geography Fieldwork

Geog 654 Tropical Field Course

With approval of the full department faculty before enrolling, students also can fulfill this requirement by completing a minimum of 90 hours of field research in one of the following courses:

Geog 489 Internship in Geography, Upper Division

Geog 497 Study Abroad

MAJOR TRACKS

Geographic Information Track. (14-15 credits within the track; 39-40 total credits to complete the major)

Geog 625 Intermediate Geographic Information Science, 4 cr. Two upper-level techniques courses, in addition to Geog 525, listed in requirement (f) of the core curriculum, 7-8 cr. beyond core. Geog 698 GIS/Cartography Internship, 3 cr.

Urban Track. (9 credits within the track; 37 total credits to complete the major)

a) Any two of the following urban geography courses, 6 cr:

Geog 430 Geography of Transportation

Geog 440 City Systems and Metropolitan Development

Geog 441 Geography of Cities and Metropolitan Areas

Geog 443 Cities of the World: Comparative Urban Geography

Geog 540 Globalization and the City

b) One of the following courses on urban environments, 3 cr:

Geog 464 Environmental Problems

Geog 520 Physical Geography of the City
Geog 564 Urban Environmental Change and Social Justice

Environmental Track. (9 credits within the track; 37 total credits to complete the major)

Any 3 of the following mid- or upper-level environmental geography courses, 9 cr:

Geog 350 Conservation of Natural Resources
Geog 520 Physical Geography of the City
Geog 464 Environmental Problems
Geog 564 Urban Environmental Change and Social Justice

Physical Systems Track. (15 credits within the track; 40 total credits to complete the major)

Any 3 of the following physical geography courses, 9 cr:

Geog 310 General Climatology
Geog 340 Biogeography
Geog 415 Hydrogeography
Geog 420 Methods and Principles in Land Form Geography
Geog 424 Karst Geomorphology
Geog 475 The Geography of Soils

Electives, 6 cr. Any two upper-division (numbered 300 or above) courses approved for natural science credit that have not been selected to fulfill the above requirements. A maximum of 3 credits from outside Geography may be applied to the major.

Globalization and Development Track. (9 credits within the track; 37 total credits to complete the major)

- a) Geog 315 Globalization and Economic Development, 3 cr
- b) Geog 540 Globalization and the City, 3 cr
- c) One of the following courses in regional or world geography [in addition to the regional or world course taken to satisfy major core requirement (c) above], 3 cr

Regional

Geog 213 Geography of Asia (if not selected for (c) above)
Geog 330 Europe: East and West (if not selected for (c) above)
Geog 421 Geography of Latin America (if not selected for (c) above)
Geog 470 Geography of South Asia (if not selected for (c) above)

World

Geog 231 Geography of Islam (if not selected for (c) above)
Geog 309 Nationalities and Nations of the World (if not selected for (c) above)
Geog 400 Population, Environment, Development (if not selected for (c) above)
Geog 410 Gendered Geographies (if not selected for (c) above)

If the course taken to meet core requirement (c) is a Regional course, then the course selected to complete track requirement (c) should be a World course, or vice versa, for a total of one REGIONAL course and one WORLD course in the major.

Course of Study: Minor in Geography

The geography minor requires the completion, with a GPA of 2.500 or above in all geography courses attempted at UWM, of 18 credits in geography courses, at least 9 of which must be at the 300 level or above taken in residence at UWM. In addition, students must attain a 2.500 GPA on all courses attempted in the minor, including transfer work.

The following are required:

One introductory human geography course (105, 110, 113, 114, 115, 140, 170, or 213)

One introductory physical geography course (120 or 125)

One geographic analysis course (215, 225, or 405)

Course of Study: Minor in Geographic Information Science (GIS)

The GIS minor requires the completion of a minimum of 18 credits, at least 9 of them at the 300 level or above taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. The following are required:

Geog 215 Introduction to Geographic Information Science (3 credits)

Geog 525 Geographic Information Science (4 credits)

Geog 698 GIS/Cartography Internship (3 credits)

Two of the following four courses (8 credits):

Geog 403 Remote Sensing: Environmental and Land Use Analysis

Geog 405 Cartography

Geog 547 Spatial Analysis

Geog 625 Intermediate Geographic Science

Related Programs

For the teaching major and minor, see the School of Education section of this catalog. A related special major is International Studies. Related certificate programs include Asian Studies, Latin American, Caribbean, and U.S. Latino Studies, and Middle Eastern and North African Studies.

Courses

[Geography \(GEOG\)](#)

Cross-listed Courses

The following courses offered by the Department of Geosciences may be used to fulfill the requirements of the undergraduate major or minor in geography.

Geo Sci 401 General Soil Science

Geo Sci 409 Process Geomorphology

Geo Sci 550 Soils, Landscape, and the Environment

Faculty

Anne Bonds, Asst. Prof., PhD

University of Washington

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University of Illinois at Urbana-Champaign

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Alison Donnelly, Assoc. Prof., PhD

Trinity College, Dublin

Glen G. Fredlund, Assoc. Prof., PhD

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Rina Ghose, Prof., PhD

University of Wisconsin-Milwaukee

Donn K. Haglund, Prof. Emeritus, PhD

Ryan Holifield, Assoc. Prof., PhD

University of Minnesota

Lutz Holzner, Prof. Emeritus, RNDr

Judith T. Kenny, Assoc. Prof. Emerita, PhD

Anna Mansson McGinty, Assoc. Prof., PhD

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Linda McCarthy, Assoc. Prof., PhD

University of Minnesota

Mark D. Schwartz, Distinguished Prof., PhD, Chair

University of Kansas

Norman R. Stewart, Assoc. Prof. Emeritus, PhD

Kristin Sziarto, Assoc. Prof., PhD

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Changshan Wu, Prof., PhD

Ohio State University

Zengwang Xu, Assoc. Prof., PhD

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Hyejin Yoon, Asst. Prof., PhD

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Geosciences

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The Department of Geosciences offers a major in Geosciences leading to either the Bachelor of Science (B.S.) or the Bachelor of Arts (B.A.) degree. The B.S. and B.A. degrees share a common academic core, drawing on the expertise of all Geosciences faculty. After completing the core, students can elect to pursue the major that best fits their particular area of academic interest.

The B.S option leads to a B.S. degree with a major in Geosciences. The B.S. degree in Geosciences is designed to prepare students to become professional Earth scientists in a wide range of disciplines, as well as to enter graduate programs for further advanced training. The B.S. curriculum includes more allied science requirements than the B.A. and is designed for students who plan professional employment or advanced study in the geosciences. Graduates seek employment with environmental and water resource management; energy and mineral industries; and government agencies.

The B.A. degree in Geosciences requires fewer math, physics, and chemistry prerequisites and upper-level courses than the B.S. degree. It is designed for students who expect to use the Earth sciences in preparation for a career in law, business, government, primary or secondary schools, or natural resources, or for those who start the Geosciences program later in their college careers. The B.A. degree in Geosciences is more easily combined with complementary majors for students to pursue a double or a triple major.

The Department also offers a minor in Geosciences to allow students to combine a Geosciences background with other majors.

Course of Study: Major

All students who major in Geosciences must complete at least 15 credits in Geosciences courses at the advanced level (numbered 300 or above) in residence at UWM as part of the 36 advanced-level credits required for the L&S degree. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

BACHELOR OF SCIENCE

This option leads to a BS degree with a major in Geosciences.

Required Courses

Geo Sci 100	Introduction to the Earth	3
Geo Sci 102	Historical Geology	3
Geo Sci 301	Principles of Mineralogy	3

Geo Sci 302	Elementary Petrology	3
Geo Sci 316	Introduction to Geophysics	3
Geo Sci 414	Structural Geology (satisfies L&S research requirement)	3
Geo Sci 455*	Field Geology (normally taken over the summer)	5-8
Geo Sci 511	Stratigraphy and Sedimentation	3

* Geo Sci 455 is required but not offered at UWM. Students must enroll in a field course at another university to satisfy the requirement.

Elective Courses. Students must take at least 18 additional credits from Geosciences Department courses at the 300 level or above, two of which must be selected from Geo Sci 400, 401, 409, 443, 463, 464, or 563.

Other Required Courses. All students in the geology-geophysics option also must take the following courses:

Mathematics

Math 231 & 232	Calculus and Analytic Geometry	8
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Students are encouraged to take Math 233 and 234.

Chemistry

Chem 102 & 104	General Chemistry and Qualitative Analysis	10
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Students are encouraged to take courses in organic and physical chemistry.

Physics

Physics 120, 121, 122 & 123	General Physics I & II (Non-Calculus Treatment)	10
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or

Physics 209, 210, 214 & 215	Physics I & II (Calculus Treatment)	10
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Students are advised strongly to increase their scholastic breadth by selecting courses from among several subdisciplines of the geosciences, in consultation with Geosciences Department faculty.

Students who are interested in general geology are encouraged to include courses from among Geo Sci 409, 515, 520, 614, 635, 636, and 638, and to consider topics offered under 696 and 697.

Students who are interested in environmental geology or hydrogeology are encouraged to include courses from among Geo Sci 400, 401, 409, 443, 463, 464, 562, and 563.

BACHELOR OF ARTS

This option leads to a BA degree with a major in Geosciences.

Required Courses

Geo Sci 100	Introduction to the Earth	3
Geo Sci 102	Historical Geology	3
Geo Sci 301	Principles of Mineralogy	3
Geo Sci 302	Elementary Petrology	3
Geo Sci 414	Structural Geology (satisfies L&S research requirement)	3
Geo Sci 455*	Field Geology (normally taken over the summer)	3
Geo Sci 511	Stratigraphy and Sedimentation	3

* Geo Sci 455 is required but not offered at UWM. Students must enroll in a field course at another university to satisfy this requirement.

Elective Courses. Students must take at least 9 additional credits from Geosciences Department courses at the 300 level or above.

Other Required Courses. All students in the general option also must take the following:

Physics and Chemistry 9-10

At least one laboratory course in physics and one laboratory course in chemistry selected from the courses required for the Geology-Geophysics Option.

Course of Study: Minor

The minor consists of a minimum of 18 credits in geosciences courses, including six credits in Geo Sci 100 and 102. The remaining 12 credits must be at the 200 level or above, with at least 9 of them at the 300 level or higher taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Courses

[Geosciences \(GEO SCI\)](#)

Cross-listed Courses

The following courses offered by the Department of Geography may be used to fulfill the requirements of the undergraduate major and minor in geosciences:

Geog 475	Geography of Soils	3
Geog 653	Soils of Wisconsin Field Study Tour	2

Faculty

Julie A. Bowles, Asst. Prof., PhD
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Barry I. Cameron, Assoc. Prof., PhD
Northern Illinois University

Douglas S. Cherkauer, Prof. Emeritus, PhD

Patricia Coorough-Burke, Adjunct Instr., MS
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German

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[Courses: German \(GERMAN\)](#)

Since the acquisition of a foreign language and a basic familiarity with foreign cultures are prerequisites for a successful liberal arts education, the German program offers a structured sequence of language and conversation courses as well as a wide variety of literature and cultural history courses. The program trains students in the skills necessary for effective use of the language; provides students with a broad understanding of German, Austrian, and Swiss literature and culture; and seeks to interest the University and local community in events and developments in Germany and other German-speaking countries.

Students who have had no previous training in German should enroll in German 101. Those who have studied German in high school should take the placement exam in German, administered by the Testing Office, before enrolling; the exam is required for those who have had two or more years of high school German. After consultation with the department, a student may enroll in a course one level higher or lower than the one recommended by the placement examination.

Course of Study: German Major

The program offers a major in German that allows the student to concentrate in his/her area of interest: literature, philology, culture, or business.

All majors are required to take an advanced language proficiency exam, normally during the semester in which they complete 18 credits in the major.

The major requires a minimum of 30 credits in courses numbered 300 or above, at least 18 of them taken in residence at UWM. No more than 9 credits per semester will be accepted from study abroad. Required are German 331, 332, 333, and 334; four additional courses at the 300 to 500 level (that are taught in German); and two courses at the 600 level.

The College requires students to complete a research experience in their major. Students fulfill this requirement in the context of the following courses:

German 488	Topics in German Philology: (subtitle)
German 525	Seminar in Advanced German Translation
German 641	Seminar on the Intellectual Tradition in German Literature and Thought: (subtitle)
German 643	Seminar on Genre Studies: (subtitle)

German 645	Seminar on Representative German Authors: (subtitle)
German 647	Seminar on Themes and Motifs in German Literature: (subtitle)
German 649	Seminar on Theoretical Approaches to German Literature: (subtitle)
German 651	Seminar on Contemporary German Literature: 1965 to the Present
German 671	Seminar on Phonetics
German 672	German for Professional Purposes
German 681	Seminar on the History and Structure of German

The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

Students are encouraged strongly to take at least 6 additional credits in related courses outside the program as recommended by their advisor. Majors must register with the program at the beginning of their candidacy.

Course of Study: German Minor

The minor in German requires a minimum of 21 credits in courses numbered 300 or above, at least 9 of them taken in residence at UWM. Four courses at the 300 level are required: German 331, 332, 333, and 334. Students must complete 9 additional credits by selecting courses from the 300 to 600 level. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Course of Study: Business German Minor

The business German minor consists of a minimum of 18 credits, including the following:

German 331	Intermediate German Grammar and Usage
German 332 (426)	Intermediate Conversation and Composition
German 333	Analysis of German Texts
German 360	German for the Global World
German 672 (461)	German for Professional Purposes

One of the following:

Bus Adm 201	Introduction to Financial Accounting
Bus Adm 330	Organizations
Bus Adm 360	Principles of Marketing

The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. Substitutions for some course requirements are possible and may include internships with firms doing business in German-speaking countries. Students also have the option of completing a Certificate in Business German offered by the *Goethe Institut*. For further information, consult the German Program Coordinator.

[German \(GERMAN\)](#)

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Hebrew/Jewish Studies

- Web Home Pages:
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The Department of Foreign Languages and Literature, in cooperation with the Center for Jewish Studies, offers a major in Jewish Studies. Students may choose between two tracks: Hebrew Studies, which requires proficiency in the Hebrew language and focuses on the texts and history of early Judaism, and Jewish Cultural Studies, which focuses on modern Jewish culture and history.

Course of Study: Jewish Studies Major

All majors in Jewish Studies are required to register with the program at the beginning of their candidacy and are encouraged to speak to the program coordinator as early as possible to plan a course of study. To be accepted into the major, students who wish to pursue the Hebrew Studies track must have a GPA of 2.500 in the first two years of Hebrew language courses.

Jewish Studies majors in both tracks must complete a minimum of 15 advanced-level (numbered 300 and above) credits in L&S courses taken in residence at UWM. A GPA of 2.500 is required in courses taken for the major at UWM and in all courses that count for the major, including transfer work.

REQUIRED COURSES (BOTH TRACKS)

Core Course - 3 credits

All Jewish studies majors must complete 3 credits selected from the following:

Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
Hist 359	Introduction to Jewish History (jointly offered with Jewish 379)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with Hist 358)
Jewish 359	Introduction to Jewish History (jointly offered with Hist 379)

Research Requirement - 3 credits

To satisfy the College of Letters and Science research requirement, students must complete Jewish 500, Topics in Jewish Studies, which is offered every spring semester. In exceptional circumstances, and with the consent of the major coordinator, students may be permitted to fulfill their research requirement in a different course numbered 300 or above.

MAJOR TRACKS

Students must select one of the following two tracks:

Hebrew Studies Track

The Hebrew Studies track of the Jewish Studies major requires completion of four semesters of college-level Hebrew (through Hebr St 202) or equivalent preparation. Credits earned in satisfying this requirement count in the major GPA, but do not count in the 30 credits required for the major.

Students in the Hebrew Studies track are encouraged strongly to pursue study abroad in Israel and may apply transfer credits from an approved study-abroad program toward their major requirements.

In addition to satisfying the Hebrew language, core course, and research requirements, students in this track must complete 24 credits, as follows:

9 credits selected from the following:

Hebr St 100	Introduction to Judaism
Hebr St 231	Introduction to the Old Testament/Hebrew Bible
HebrSt 235	The Dead Sea Scrolls and the Bible
Hebr St 331	Topics in Biblical Literature: (all subtitles)
Hebr St 332	Women in the Bible

Electives – 15 credits from the courses not selected above and/or the following, which must include courses numbered 300 and above to reach a total of 15 advanced credits taken in residence at UWM.

* A maximum of 3 internship credits may count toward the major.

CompLit 461	Film-Fiction Interactions: "Holocaust Testimonials in Literature and Film"
English 507	Studies in Literature, 1900 to the Present: "Jewish American Literature from the Holocaust to the 21st Century"
FilmStd 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
Hebr St 100	Introduction to Judaism (if not selected above)
Hebr St 192	First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
Hebr St 199	Independent Study (as approved by program coordinator)
Hebr St 230	Bible Stories
Hebr St 231	Introduction to the Old Testament/Hebrew Bible (if not selected above)
Hebr St 235	The Dead Sea Scrolls and the Bible (if not selected above)
Hebr St 238	Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
Hebr St 254	Studies in Hebrew Culture: (all subtitles)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
Hebr St 289*	Internship in Hebrew Studies, Lower Division (as approved by program coordinator)
Hebr St 297	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 299	Ad Hoc: (all subtitles)
Hebr St 331	Topics in Biblical Literature: (all subtitles) (if not selected above)
Hebr St 332	Women in the Bible (if not selected above)
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
Hebr St 381	Honors Seminar: (subtitle) (as approved by program coordinator)
Hebr St 397	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 411	Old Testament Texts: (subtitle)
Hebr St 470	Readings in Rabbinic Literature: (all subtitles)
Hebr St 471	Introduction to the Midrash: (all subtitles)
Hebr St 489*	Internship in Hebrew Studies, Upper Level (as approved by program coordinator)
Hebr St 497	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 499	Ad Hoc: (all subtitles)
Hebr St 597	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 697	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 699	Independent Study (as approved by program coordinator)
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries
Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
Hist 363	Germany: Hitler and the Nazi Dictatorship
Hist 364	The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
Hist 370	Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)

Hist 401	Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
Jewish 101	Jewish Culture in America: History, Literature, Film
Jewish 192	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 193	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 199	Independent Study (as approved by program coordinator)
Jewish 247	Jewish Art, Literature, Culture: (all subtitles)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
Jewish 289*	Internship in Jewish Studies, Lower Division (as approved by program coordinator)
Jewish 297	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 299	Ad Hoc: (all subtitles)
Jewish 321	The Holocaust and the Politics of Memory
Jewish 328	The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with FilmStd 350)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with Hist 368)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
Jewish 449	Modern Jewish Thought
Jewish 489*	Internship in Jewish Studies, Upper Division (as approved by program coordinator)
Jewish 497	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 499	Ad Hoc: (all subtitles)
Jewish 699	Independent Study (as approved by program coordinator)
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328)
Pol Sci 371	Nationalism and Ethnic Conflict

Jewish Cultural Studies Track

The Jewish cultural studies track does not have a language requirement as part of the major track. Students in this track, however, complete language studies as part of their L&S degree requirements. Although no additional language courses are required beyond those required for the L&S degree, with the consent of the major coordinator, students may count up to 6 credits in appropriate language courses beyond the second semester. Students interested in considering advanced studies in Jewish Studies or a career in Jewish education are encouraged to take Hebrew. Credits earned in language courses approved by the coordinator count in the Jewish cultural studies major option GPA.

In addition to the core and research requirement courses, the following 24 credits are required:

12 credits selected from the following:

FilmStd 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
Jewish 101	Jewish Culture in America: History, Literature, Film
Jewish 247	Jewish Art, Literature, Culture: (all subtitles)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
Jewish 328	The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Film St 350)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
Jewish 421	Introduction to Yiddish Literature: (all subtitles)
Jewish 449	Modern Jewish Thought
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328)

Electives – a minimum of 12 credits from the following, which must include courses numbered 300 and above to reach a total of 15 advanced credits taken in residence at UWM.

* A maximum of 3 internship credits may count toward the major.

CompLit 461	Film-Fiction Interactions: "Holocaust Testimonials in Literature and Film"
English 507	Studies in Literature, 1900 to the Present: "Jewish American Literature from the Holocaust to the 21st Century"
FilmStd 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350) (if not selected above)
Hebr St 100	Introduction to Judaism (if not selected above)
Hebr St 192	First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
Hebr St 199	Independent Study (as approved by program coordinator)
Hebr St 230	Bible Stories
Hebr St 231	Introduction to the Old Testament/Hebrew Bible (if not selected above)
Hebr St 235	The Dead Sea Scrolls and the Bible (if not selected above)

Hebr St 238	Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
Hebr St 254	Studies in Hebrew Culture: (all subtitles)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261) (if not selected above)
Hebr St 289*	Internship in Hebrew Studies, Lower Division (as approved by program coordinator)
Hebr St 297	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 299	Ad Hoc: (all subtitles)
Hebr St 331	Topics in Biblical Literature: (all subtitles) (if not selected above)
Hebr St 332	Women in the Bible (if not selected above)
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368) (if not selected above)
Hebr St 381	Honors Seminar: (subtitle) (as approved by program coordinator)
Hebr St 397	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 411	Old Testament Texts: (subtitle)
Hebr St 449	Modern Jewish Thought
Hebr St 470	Readings in Rabbinic Literature: (all subtitles)
Hebr St 471	Introduction to the Midrash: (all subtitles)
Hebr St 489*	Internship in Hebrew Studies, Upper Level (as approved by program coordinator)
Hebr St 497	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 499	Ad Hoc: (all subtitles)
Hebr St 597	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 697	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 699	Independent Study (as approved by program coordinator)
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries
Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
Hist 363	Germany: Hitler and the Nazi Dictatorship
Hist 364	The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
Hist 370	Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)
Hist 401	Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
Jewish 101	Jewish Culture in America: History, Literature, Film (if not selected above)
Jewish 192	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 193	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 199	Independent Study (as approved by program coordinator)
Jewish 247	Jewish Art, Literature, Culture: (all subtitles) (if not selected above)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261) (if not selected above)
Jewish 289*	Internship in Jewish Studies, Lower Division (as approved by program coordinator)
Jewish 297	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 299	Ad Hoc: (all subtitles)
Jewish 321	The Holocaust and the Politics of Memory
Jewish 328	The Arab-Israeli Conflict (jointly offered with Pol Sci 328) (if not selected above)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with FilmStd 350) (if not selected above)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with Hist 368)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368) (if not selected above)
Jewish 371	Survey of Jewish Literature (IN PROGRESS)
Jewish 421	Introduction to Yiddish Literature: (all subtitles) (if not selected above)
Jewish 449	Modern Jewish Thought (if not selected above)
Jewish 489*	Internship in Jewish Studies, Upper Division (as approved by program coordinator)
Jewish 497	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 499	Ad Hoc: (all subtitles)
Jewish 699	Independent Study (as approved by program coordinator)
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328) (if not selected above)
Pol Sci 371	Nationalism and Ethnic Conflict

Course of Study: Jewish Studies Minor

A minor in Jewish Studies may be of particular interest to students earning a certificate in Middle Eastern and North African Studies, Cultures and Communities, and/or Comparative Ethnic Studies, or a major in Religious Studies. The minor requires completion of a minimum of 18 credits, at least 9 of which must be taken at the 300 level or above in residence at UWM. The College requires that students earn a GPA of at least 2.500 on all credits for the minor attempted at UWM. In addition, students

must earn a GPA of 2.500 on all minor credits attempted, including any transfer work.

Students can attain a minor in Jewish Studies by following one of two tracks:

Hebrew Studies Track

The Hebrew Studies track of the Jewish Studies minor requires the following:

Two semesters (at least 6 cr) of Hebrew language courses. Students who test out of one or both semesters of language studies must substitute an alternative Hebr St course, selected in consultation with the program coordinator, for each semester skipped.

12 credits selected from the following, including 9 credits at the advanced level (300 and above) taken in residence at UWM:

FilmStd 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
Hebr St 100	Introduction to Judaism
Hebr St 192	First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
Hebr St 199	Independent Study (as approved by program coordinator)
Hebr St 230	Bible Stories
Hebr St 231	Introduction to the Old Testament/Hebrew Bible
Hebr St 235	The Dead Sea Scrolls and the Bible
Hebr St 238	Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
Hebr St 254	Studies in Hebrew Culture: (all subtitles)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
Hebr St 297	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 299	Ad Hoc: (all subtitles)
Hebr St 331	Topics in Biblical Literature: (all subtitles)
Hebr St 332	Women in the Bible
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
Hebr St 381	Honors Seminar: (subtitle) (as approved by program coordinator)
Hebr St 397	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 411	Old Testament Texts: (subtitle)
Hebr St 470	Readings in Rabbinic Literature: (all subtitles)
Hebr St 471	Introduction to the Midrash: (all subtitles)
Hebr St 497	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 499	Ad Hoc: (all subtitles)
Hebr St 597	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 697	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 699	Independent Study (as approved by program coordinator)
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries
Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
Hist 363	Germany: Hitler and the Nazi Dictatorship
Hist 364	The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
Hist 370	Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)
Hist 379	Introduction to Jewish History (jointly offered with Jewish 379)
Hist 401	Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
Jewish 101	Jewish Culture in America: History, Literature, Film
Jewish 192	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 193	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 199	Independent Study (as approved by program coordinator)
Jewish 247	Jewish Art, Literature, Culture: (all subtitles)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
Jewish 297	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 299	Ad Hoc: (all subtitles)
Jewish 321	The Holocaust and the Politics of Memory
Jewish 328	The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with FilmStd 350)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with Hist 368)

Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
Jewish 371	Survey of Jewish Literature (IN PROGRESS)
Jewish 379	Introduction to Jewish History (jointly offered with Hist 379)
Jewish 421	Introduction to Yiddish Literature: (all subtitles)
Jewish 449	Modern Jewish Thought
Jewish 497	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 499	Ad Hoc: (all subtitles)
Jewish 500	Topics in Jewish History: (all subtitles)
Jewish 699	Independent Study (as approved by program coordinator)
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328)
Pol Sci 371	Nationalism and Ethnic Conflict

Jewish Cultural Studies Track

The Jewish cultural studies track of the Jewish Studies minor requires 18 credits, including 9 credits at the advanced level (300 and above) taken in residence at UWM, distributed as follows:

One of the following:

Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
Hist 379	Introduction to Jewish History (jointly offered with Jewish 379)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with History 358)
Jewish 379	Introduction to Jewish History (jointly offered with History 379)

Two courses (6 credits) selected from the following:

FilmStd 350	Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
Jewish 101	Jewish Culture in America: History, Literature, Film
Jewish 247	Jewish Art, Literature, Culture: (all subtitles)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
Jewish 328	The Arab-Israeli Conflict (jointly offered w/Pol Sci 328)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with FilmStd 350)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328)

Three courses (9 credits) selected from the following:

Hebr St 100	Introduction to Judaism
Hebr St 192	First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
Hebr St 199	Independent Study (as approved by program coordinator)
Hebr St 230	Bible Stories
Hebr St 231	Introduction to the Old Testament/Hebrew Bible
Hebr St 235	The Dead Sea Scrolls and the Bible
Hebr St 238	Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
Hebr St 254	Studies in Hebrew Culture: (all subtitles)
Hebr St 261	Representing the Holocaust in Words and Images (jointly offered with Jewish 261) (if not selected above)
Hebr St 297	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 299	Ad Hoc: (all subtitles)
Hebr St 331	Topics in Biblical Literature: (all subtitles)
Hebr St 332	Women in the Bible
Hebr St 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368) (if not selected above)
Hebr St 381	Honors Seminar: (subtitle) (as approved by program coordinator)
Hebr St 397	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 411	Old Testament Texts: (subtitle)
Hebr St 470	Readings in Rabbinic Literature: (all subtitles)
Hebr St 471	Introduction to the Midrash: (all subtitles)
Hebr St 497	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 499	Ad Hoc: (all subtitles)
Hebr St 597	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 697	Study Abroad: (subtitle) (as approved by program coordinator)
Hebr St 699	Independent Study (as approved by program coordinator)
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries

Hist 358	The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358) (if not selected above)
Hist 363	Germany: Hitler and the Nazi Dictatorship
Hist 364	The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
Hist 370	Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)
Hist 401	Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
Jewish 101	Jewish Culture in America: History, Literature, Film (if not selected above)
Jewish 192	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 193	First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
Jewish 199	Independent Study (as approved by program coordinator)
Jewish 247	Jewish Art, Literature, Culture: (all subtitles)
Jewish 261	Representing the Holocaust in Words and Images (jointly offered with Hebr St 261) (if not selected above)
Jewish 297	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 299	Ad Hoc: (all subtitles)
Jewish 321	The Holocaust and the Politics of Memory
Jewish 328	The Arab-Israeli Conflict (jointly offered with Pol Sci 328) (if not selected above)
Jewish 350	Global Jewish Film and Television: (all subtitles) (jointly offered with FilmStd 350) (if not selected above)
Jewish 358	The Jews of Modern Europe: History and Culture (jointly offered with Hist 358) (if not selected above)
Jewish 368 (268)	Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368) (if not selected above)
Jewish 371	Survey of Jewish Literature (IN PROGRESS)
Jewish 421	Introduction to Yiddish Literature: (all subtitles)
Jewish 449	Modern Jewish Thought
Jewish 497	Study Abroad: (subtitle) (as approved by program coordinator)
Jewish 499	Ad Hoc: (all subtitles)
Jewish 500	Topics in Jewish History: (all subtitles)
Jewish 699	Independent Study (as approved by program coordinator)
Pol Sci 328	The Arab-Israeli Conflict (jointly offered with Jewish 328) (if not selected above)
Pol Sci 371	Nationalism and Ethnic Conflict

Related Programs

Hebrew/Jewish Studies students also may be interested in the Comparative Ethnic Studies and the Religious Studies programs as well as the certificate program in Middle Eastern and North African Studies.

Courses

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The study of history involves all aspects of human experience throughout time. The Department of History offers a variety of courses, defined geographically, chronologically, and thematically, through which students acquire both broad and specialized knowledge of the past.

History courses are intended to transmit knowledge about various areas and periods, to address general historical problems, and to make students more capable of reading and analyzing both primary sources and secondary literature. Students learn how to collect information independently, to present material, and to construct arguments in a literate and cogent manner. The courses also are intended to make students more understanding of the complexity of human existence and the reality of human diversity, as well as more prepared to make informed and responsible decisions about issues in the world in which they live. These courses provide excellent training for professional careers in education, government, business, law, and social work, as well as advanced work in academics.

Students intending to major in history are encouraged to enroll in several 100- and 200-level courses. Students completing the required coursework for the history major earn the Bachelor of Arts degree. Students may combine a major in history with many of the certificate programs or with another departmental major.

Academic Advising

For academic advice, as well as for information on how to declare a major or minor in history, visit the undergraduate program web page of the Department of History at uwm.edu/history/undergraduate/.

Course of Study: Major

History majors are required to take 36 credits of coursework distributed as follows:

1. At least 6 credits in European history;
2. At least 6 credits in U.S. history;
3. At least 9 credits in non-Western or global history;
4. At least 3 credits in a course dealing with the period before 1500;
5. At least 18 credits in courses numbered 300 or above, of which 15 must be taken in residence at UWM;
6. At least one course in historical methods (Hist 288, 291, 293, 294, 594, 595, or 596); and
7. Hist 600 Seminar in History (meets the L&S requirement for a research experience in the major; prerequisite is Hist 288, 291, 293, 294, 594, 595, or 596). Students who complete the senior thesis (see below) may substitute the

thesis courses for Hist 600.

History majors must maintain a 2.500 GPA in all history credits attempted at UWM and a 2.500 GPA in all history credits attempted at all institutions attended, collectively. No more than 6 of the 36 credits applied to the major may be earned in independent study courses (Hist 199 or 699). Note that in all courses taken in the major on a credit/no credit basis (whether applied to the major or not), regular letter grades are recorded on your transcript and are used in the calculation of your GPA.

Note: Specific courses may count toward the fulfillment of more than one requirement. For example, Hist 101 (Western Civilization to 1500) counts toward the fulfillment of both requirement #1 and requirement #4.

Students should pay particular attention to requirements #6 and #7. They will not be permitted to enroll in History 600 until after they have taken and passed one of the courses in historical methods listed under #6. This sequence may not be reversed and students cannot take both courses in the same semester. Prospective majors should fulfill the methods requirement at an early stage of their progress in the curriculum, in no case later than the next-to-last semester before they plan to graduate.

Course of Study: Minor

History minors are required to take a minimum of 18 credits of coursework distributed as follows:

1. At least 3 credits in each of the following three areas:

- European history
- U.S. history
- non-Western or global history

2. At least 9 credits in courses numbered 300 or above taken in residence at UWM.

History minors must maintain a 2.500 GPA in all history courses attempted at UWM and a 2.500 GPA in all history credits attempted at all institutions attended, collectively. No more than 3 of the 18 credits applied to the minor may be earned in independent study courses (Hist 199 or 699). Note that in all courses taken in the minor on a credit/no credit basis (whether applied to the requirements of the minor or not), regular letter grades are recorded on your transcript and are used in the calculation of your GPA.

Note: Specific courses may count toward the fulfillment of more than one requirement. For example, Hist 307 (The Roman Republic) counts toward the fulfillment of both requirement #1a and requirement #2.

CATEGORIZATION OF COURSES BY GEOGRAPHIC AREA

The following lists indicate the geographic areas towards which courses count in the fulfillment of the major and minor requirements. (Note that some courses do not satisfy any of the geographic area distribution requirements and that for variable-topic courses, the geographic area is determined by the specific topic).

European History

Hist 101, 102, 201 through 206, 220, 226, 227, 228, 235, 236, 238, 239, 241, 242, 246, 248 through 250, 301 through 369, 371, 374, 375

U.S. History

Hist 150, 151, 152, 229, 243 through 245, 251, 262 through 272, 403 through 475, 654

Non-Western or Global History

Hist 131, 132, 141, 175, 176, 180, 210, 215, 246,* 274, 275, 280 through 287, 290, 295, 372, 376 through 397, 400 through 402, 596

** If taken prior to the spring 2006 semester, Hist 246 counts as a European history course.*

Geographic Area Determined by Specific Topic

Hist 190, 192, 193, 199, 200, 296, 297, 299, 370, 373, 398, 399, 497, 499, 594, 599, 600, 681, 682, 699

The geographic area of concentration in sections of Hist 600, where the area is not obvious in the title, by default is designated in accordance with the primary teaching and research interests of the instructor. In such cases, and with the instructor's approval, Hist 600 can count toward different areas for different students, as determined by the predominant focus of their individual work in the course. Note that a variable topic course cannot be considered "Non-Western or Global" unless at least a substantial part of the course's focus includes the study of African, Asian, Middle Eastern, or Latin American history.

No Geographic Area

Hist 288, 289, 291, 293, 294, 296, 489, 595, 651

ANCIENT AND MEDIEVAL HISTORY (PRE-1500) REQUIREMENT

The following courses satisfy the pre-1500 requirement of the History major:

Hist 101, 131, 175, 201 through 204, 235, 274, 280, 301, 303, 304, 307, 308, 318 through 320, 325, 376, 383, 384, 394

The following variable topic courses satisfy the pre-1500 requirement of the History major if the specific topic deals preponderantly with the era prior to 1500:

Hist 192, 193, 199, 200, 250, 270, 290, 296, 297, 299, 370 through 373, 398 through 402, 497, 499, 594, 599, 600, 681, 682, 699

Because individual student topics in Hist 600 can vary, that course, with the instructor's approval, may count toward the pre-1500 requirement for certain students, as determined by the predominant focus of their individual work in the course. Note: If taken prior to the spring 2007 semester, Hist 385 also counts as a pre-1500 course.

CROSS-LISTED COURSE

Portugs 360 Brazilian Culture, with the topic "History of Brazil," may be used to fulfill requirements of the undergraduate major or minor in history. It counts as a non-Western/global history course.

JOINTLY OFFERED COURSES

History offers the following courses jointly with other academic units. Whether these courses are taken under Hist or the curricular areas of the other units, they may be used to fulfill requirements of the undergraduate major or minor in history.

AIS/Hist 262	North American Indian History to 1887
AIS/Hist 263	North American Indian History Since 1887
AIS/Hist 473	History of Wisconsin Indians
AIS/Hist 474	Topics in North American Indian History: (subtitle)
AIS/Hist 475	American Indian History, Law, and Government
Hebr St/Hist 274	Ancient Egyptian Civilization
Hist/HCA 228	History of Medicine
Hist/Jewish 358	The Jews of Modern Europe: History and Culture

SENIOR THESIS OPTION

Students choosing this two-semester sequence (Hist 681-682) write a substantial research paper on a topic of their choice in consultation with a faculty thesis advisor. The prerequisite for Hist 681 is at least one of the following courses: Hist 288, 291, 293 (590), 294 (591), 594, 595, or 596. Students also must receive approval from the faculty thesis advisor and department chair prior to enrolling. With the consent of the faculty thesis advisor and the department chair, history majors with a GPA of 3.333 (B+) or higher in all history credits attempted, including transfer work, may take the thesis sequence in lieu of Hist 600 to satisfy (in part) major requirements and the L&S research requirement. Access and print out the [senior thesis proposal form](#) (PDF).

INDEPENDENT STUDY

Independent study is not a substitute for courses regularly available in the curriculum. Students who wish to enroll in independent study (Hist 199 for freshmen and sophomores; Hist 699 for juniors and seniors) must have a minimum GPA of 2.500 in credits attempted at UWM. It is recommended that students work only with faculty members from whom they previously have taken regular classes. Students may not enroll in Hist 199 or 699 for work already completed. When enrolling in Hist 199 or 699, students shall select the section number of the faculty member who will supervise their work.

After consultation with the supervising faculty member, students must print out and complete an [independent study form](#) (PDF). This form contains the description of the independent study proposal, and it should be completed during the first two weeks of the semester. The supervising faculty member must approve the proposal and return the signed form to the department office for endorsement by the department chair as well as by the Dean. A student should not take more than three credits of independent study in one semester from the same faculty member. **History majors may take no more than 6 of the required 36 credits in History in independent study, and a maximum of 3 credits of independent study may count toward the minor.**

INTERSHIPS

The Department of History encourages eligible students to do internships for credit by enrolling in Hist 289 (freshmen and sophomores) or Hist 489 (juniors and seniors). It is, however, the student's responsibility to secure an internship with an agency or organization; the Department does not place students in internships. Students also should arrange to have a supervisor oversee their work at the agency or organization. Before securing placement in an agency or organization, interested students should begin by verifying whether or not they meet L&S requirements to enroll in an internship for credit. The prerequisites are:

1. Hist 289: lower-division course in Hist; 2.500 GPA.
2. Hist 489: jr st; satisfaction of GER English Composition competency; 300-level or above course in Hist; 2.500 GPA.

The procedure for enrolling in History 289 or 489 requires the following steps:

1. Student asks the Chair of the Undergraduate Affairs Committee to confirm that s/he is eligible to enroll in Hist 289 or 489. Contact information for the current Chair of the History Undergraduate Affairs Committee can be obtained from the History Department Office (hoffice@uwm.edu).
2. The student downloads the **Verification of Internship Form** ([Word](#), [PDF](#)), which must be completed and signed by the student and the agency or organization supervisor.
3. The student submits the completed and signed Verification of Internship form to the Chair of the History Undergraduate Affairs Committee.
4. The Chair of the History Undergraduate Affairs Committee assigns the student to an academic mentor among the UWM history faculty.

5. The student and faculty member meet to discuss the internship program, goals, assignment, and form of assessment.
 6. Student and mentoring faculty complete and sign the **Internship Contract Form** ([Word](#), [PDF](#)) and ADD/DROP form as appropriate.
 7. Student submits the completed and signed Internship Contract and ADD/DROP forms to the History Office.
 8. **Important:** Students must enroll in Hist 289 or 489 by the end of the second week of the semester in which the internship will take place.
-

Courses

[History \(HIST\)](#)

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Bowling Green State University
Associate Vice Chancellor for Global Inclusion and Engagement

Walter I. Trattner, Prof. Emeritus, PhD

Chia Vang, Assoc. Prof., PhD
University of Minnesota

Walter B. Weare, Assoc. Prof. Emeritus, PhD

Merry E. Wiesner-Hanks, Distinguished Prof., PhD
University of Wisconsin-Madison

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Honors College

Honors House

Room 54

(414) 229-4658

www.uwm.edu/Dept/Honors

- Web Home Page:
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The Honors College is open to qualified undergraduates in all UWM schools and colleges. The college offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences. It is appropriate particularly for students who want more engaged and writing-intensive studies or who are preparing for graduate, law, medical, or professional school.

Students receive the degree designations "Honors" or "Honors with Distinction" on their diplomas and transcripts.

Admission

Students pursuing their first degree can join the Honors College as freshmen, continuing, or transfer students. Freshmen are admitted based upon a holistic review of their UWM application and high school record. Continuing UWM and transfer students should have a cumulative GPA commensurate with their academic standing (see below) and have met the University English requirement by testing out of, or receiving a B-, or better, in English 102. All students new to Honors must meet with an Honors advisor to discuss how the Honors College can be integrated into their academic plans.

Continuing in the Honors College

Honors College students must meet the following **cumulative** GPA/enrollment criteria:

1. To continue in the Honors College, students must attain the following minimum grade point averages for work done at UWM:

Freshman (after first semester)	3.000
Sophomores (at beginning of sophomore year)	3.300
Juniors (at beginning of junior year)	3.400
Seniors/to graduate with an Honors degree (at beginning of senior year)	3.500
2. Students admitted as new freshman who need to complete the University English Requirement must complete Honors 200 in the first semester following their completion of the English Requirement.
3. Students who do not take Honors courses for two consecutive semesters will be considered "inactive" and dropped from the Honors College.

Graduating with Honors

All UWM Undergraduate Schools and Colleges now offer the Honors Degree, a special diploma awarded to students who complete Honors College requirements. Students who complete a Senior Thesis or Project, or complete two semesters of Research in Honors, receive a special "Honors with Distinction" degree. Graduating with an Honors Degree provides convincing evidence of outstanding academic achievement, a valuable accomplishment students can note on resumes and graduate school applications. To graduate with Honors, students must achieve a cumulative GPA of at least 3.500 and accumulate at least 21 Honors credits.

Notification of Ineligible Students

At the end of each semester, the Honors College will review students' academic records to determine whether they meet the criteria for continuation in the program. The Honors College will notify by mail all students who fail to meet these criteria, stating that they no longer are eligible to enroll in Honors classes. If these students already are enrolled in Honors classes for the next semester, they will be dropped administratively.

Regaining Honors College Eligibility

1. Students who become ineligible by failing to maintain the minimum grade point average may apply for reinstatement if they subsequently raise their grade point average to the required level.
2. Students who become ineligible after two consecutive semesters with no Honors courses may apply for reinstatement.
3. In either case, students applying for reinstatement must indicate in writing how they propose to complete Honors requirements before graduation.

Graduation Requirements

An Honors degree requires 21 Honors credits and at least a 3.500 cumulative grade point average at graduation. All Honors credits count toward the total credits required for graduation. Students must earn a grade of B- or better to receive Honors credit for a course. At least 12 of the 21 Honors credits must be earned at UWM, with at least 9 credits in upper-level Honors seminars at UWM.

Students also may choose to graduate with "Honors with Distinction." The designation "Honors with Distinction" is awarded to students who, as part of their Honors requirements, successfully complete 6 credits in "Research in Honors," a "Senior Honors Project" or a "Senior Honors Thesis." This designation will appear on the students' transcripts. Students complete the required credits through enrollment in Honors 686, 687, or 689 (see below).

Course of Study

Honors Seminars. Freshmen and sophomores entering the Honors College must complete Honors 200, earning a grade of B- or better, before taking other honors courses (except for honors calculus, which can be taken concurrently). Following Honors 200, which may be repeated once with change in topic, students with sophomore standing or above may take departmental Honors seminars at 3H credits each.

Honors 200	Honors Seminar: The Shaping of the Modern Mind: (Subtitle)	3H
Math 221	Honors Calculus I	5H
Math 222	Honors Calculus II	5H
Africol 381	Honors Seminar: (subtitle)	3H
Anthro 381	Honors Seminar: (subtitle)	3H
ArtHist 381	Honors Seminar: (subtitle)	3H
Atm Sci 381	Honors Seminar: (subtitle)	3H
Bio Sci 381	Honors Seminar: (subtitle)	3H
Chem 381	Honors Seminar: (subtitle)	3H
Classic 381	Honors Seminar: (subtitle)	3H
Commun 381	Honors Seminar: (subtitle)	3H
CompLit 381	Honors Seminar: (subtitle)	3H

Econ 381	Honors Seminar: (subtitle)	3H
English 381	Honors Seminar: (subtitle)	3H
French 381	Honors Seminar: (subtitle)	3H
Geog 381	Honors Seminar: (subtitle)	3H
Geo Sci 381	Honors Seminar: (subtitle)	3H
German 381	Honors Seminar: (subtitle)	3H
HebrSt 381	Honors Seminar: (subtitle)	3H
Hist 398	Honors Seminar: (subtitle)	3H
Hist 399	Honors Seminar: (subtitle)	3H
Honors 350 (680)	Honors Seminar: (subtitle)	3H
Honors 351 (683)	Honors Seminar: (subtitle)	3H
Honors 352 (682)	Honors Seminar: (subtitle)	3H
Honors 380	Honors Seminar: (subtitle)	3H
Italian 383	Honors Seminar: (subtitle)	3H
JAMS 381	Honors Seminar: (subtitle)	3H
Linguist 380	Honors Seminar: (subtitle)	3H
Math 381	Honors Seminar: (subtitle)	3H
Philos 381	Honors Seminar: (subtitle)	3H
Physics 381	Honors Seminar: (subtitle)	3H
Pol Sci 380	Honors Seminar: (subtitle)	3H
Psych 380	Honors Seminar: (subtitle)	3H
Russian 385	HHonors Seminar: (subtitle)	3H
Sociol 380	Honors Seminar: (subtitle)	3H
Spanish 381	Honors Seminar: (subtitle)	3H
Urb Std 381	Honors Seminar: (subtitle)	3H
WGS 380	Honors Seminar: (subtitle)	3H
WGS 381	Honors Seminar: (subtitle)	3H

With the exception of Honors 200 and 380, variable content seminars (those marked "subtitle") are retakable with a change in topic to a maximum of 9 credits. Honors 200 and 380 are retakable once.

Advanced Independent Study (3H cr.): Independent study courses offered through departments. Course numbers vary. Prerequisite: junior standing

Honors 685 (Honors Tutorial; 3H cr.): An independent study course for students who cannot arrange independent study through one of the departments. Prerequisite: junior standing.

Honors 686 (Research in Honors; 3H or 6H cr.): Students assist a faculty member in his/her research and then design and complete an original and major research project under the supervision of a faculty advisor. Students who complete 6 cr are awarded "Honors with Distinction" on their transcripts. Prerequisite: junior standing and 9H credits.

* **Honors 687** (Senior Honors Project; 3H cr.; retakable to a max of 6H cr.): The Senior Honors Project is intended for students in majors in which an Honors Thesis is not appropriate. It consists of a performance, exhibit, musical composition, or technical/professional project completed under the supervision of a faculty advisor. Students who complete 6H cr. are awarded "Honors with Distinction" on their transcripts. Prerequisite: senior standing.

* **Honors 689** (Senior Honors Thesis; 6H cr. over two semesters): The Senior Honors Thesis allows students the opportunity to write an extended paper (usually 50-75 pages) reflecting independent research conducted in some aspect of their major field of study under the supervision of a faculty advisor. Students who complete the thesis are awarded "Honors with Thesis" on their transcripts. Prerequisite: senior standing.

***Students may not do both a Senior Thesis and a Senior Project.**

Graduate Courses. Courses at the 700 level and above may be counted toward the Honors College graduation requirements. This option normally is open only to seniors in the program who meet the necessary prerequisites. Permission for an Honors student to take a graduate course must be obtained from the instructor of the course, the department chair, the dean of the appropriate school/college, and the Honors College director.

Other Options. A maximum of 9H credits earned at other universities may be applied to the Honors College graduation requirements with the director's approval. Honors credits also may be earned through approved Study Abroad Programs.

Courses

[Honors College \(HONORS\)](#)

Administration

Peter Sands, Director
Binghamton University, SUNY

Robin Weigert, Assistant Director
University of Wisconsin-Milwaukee

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UWM Undergraduate Catalog 2017-2018

College of Letters and Science

International Studies

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 - [International Studies \(INTLST\)](#)

Erica Bornstein, *Associate Professor of Anthropology, Coordinator*

The International Studies (IS) Program is an interdisciplinary major administered by faculty members in the College of Letters and Science. The IS Program offers students an excellent opportunity to improve their understanding of the diverse cultures of the world and to begin developing the skills they need for careers that have an international dimension. The IS Program has grown steadily over the past 50 years to meet the needs for a more globalized education.

All interested students should consult the International Studies advisor at the earliest opportunity. Students may declare the major once they have reached 15 credits. The advisor will assist each student in preparing a logical sequence of studies.

Honors and high honors in the major are awarded at graduation to students who achieve the following:

Honors: at least a 3.0 overall GPA with a 3.5 GPA on all credits attempted in the major and a 3.50 GPA on all advanced credits attempted in the major;

High Honors: at least a 3.0 overall GPA with a 3.75 GPA on all credits attempted in the major and a 3.75 GPA on all advanced credits attempted in the major.

The International Studies (IS) major offers a number of special programs designed to help students deepen their knowledge of international affairs. Students may receive credit toward the major for participation in study abroad programs or the United Nations Summer Seminar. Credit toward the major also may be obtained through a semester-long internship in an international business, a government office, or a private organization with an international focus, either in Milwaukee or abroad.

Course of Study: Major

The major requires 14 college credits or the equivalent in one foreign language. Students must complete at least one college course to meet this requirement; high school work alone will not suffice. Students must attain a 2.500 GPA in all UWM credits attempted for the major. In addition, the College requires that students attain a 2.500 GPA in all major credits attempted, including any transfer work.

Introductory Courses

The following introductory courses are required and should be taken during the first two years:

A. Econ 103	Principles of Microeconomics	3
B. Econ 104	Principles of Macroeconomics	3
C. Geog 110	The World: Peoples and Regions	3
D. One of the following Anthropology or History courses		3
Anthro 102	Introduction to Anthropology: Culture and Society	
Anthro 104	Lifeways in Different Cultures: A Survey of World Societies	

Hist 176	East Asian Civilization Since 1600	
Hist 180	Latin American Society and Culture	
Hist 242	Women and Gender in Europe: 1750 to the Present	
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	

E. One of the following Political Science courses 3

Pol Sci 106	Politics of the World's Nations
Pol Sci 175	Introduction to International Relations

Credits earned in the above courses do not count toward the 36 credits required for the major. They cannot be taken on a credit/no credit basis.

The major requires a minimum of 36 credits, including the following:

General Course Requirements for the Major (6-7 cr)

IntlSt 550	Senior Seminar in International Studies: (subtitle) (satisfies L&S research requirement)	3
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One course from the following list of “Analytical Techniques” courses: 3-4 cr

Anthro 560	Introduction to Research Methods in Anthropology	3
Anthro 561	Techniques and Problems in Ethnography	3
Econ 210	Economic Statistics	3
Geog 215	Introduction to Geographic Information Sciences	3
Hist 294	Seminar on Historical Method: Research Techniques	3
MthStat 215	Elementary Statistical Analysis	3
Pol Sci 203	Introduction to Political Science Research	3
Pol Sci 390	Political Data Analysis	4
Sociol 261	Introduction to Statistical Thinking in Sociology	3
WGS 411	Women's and Gender Studies Research Methods: (subtitle)	3

Option A: International Politics and World Affairs. This option emphasizes political aspects of international studies.

18 credits are required as outlined below:

A. Econ 351	Introduction to International Economic Relations	3
B. Hist 434	The United States as a World Power in the Twentieth Century	3
C. Pol Sci 359	Problems of American Foreign Policy	3
D. A minimum of three of the following courses (9 cr):		
Econ 353	Economic Development	
Pol Sci 316	International Law	
Pol Sci 337	International Organization and the United Nations	
Pol Sci 338	Seminar in International Relations: (subtitle) (part of UN Summer Seminar)	
Pol Sci 340	Politics of Nuclear Weapons	
Pol Sci 365	Theories and Methods in International Relations	
Pol Sci 370	International Conflict	
Pol Sci 371	Nationalism and Ethnic Conflict	

E. Electives: 11-12 credits from the list of electives for a total of 36 credits.

Option B: International Economics and Development. This option emphasizes the political, economic, and cultural aspects of developing countries as well as the economic aspects of international studies.

18 credits are required as outlined below:

A. Econ 301	Intermediate Microeconomics	3
B. Econ 302	Intermediate Macroeconomics	3
C. Econ 353	Economic Development	3
D. Pol Sci 330	The Politics of International Economic Relations	3
E. A minimum of two courses from the following courses (6 cr):		
Bus Adm 465	International Marketing	
Bus Adm 496	International Business	
Econ 351	Introduction to International Economic Relations	
Econ 454	International Trade	
Econ 455	International Finance	
Pol Sci 316	International Law	

Pol Sci 370	International Conflict
UrbPlan 315	Planning for Great Cities of the World: Their Growth and Guided Urbanization
UrbPlan 684	Planning Local Economic Development

F. 11-12 credits from the above and/or the list of electives for a total of 36 credits.

Option C: World Languages and Culture. This option emphasizes the cultural aspects of international studies, examining topics such as globalization and politics from a range of perspectives.

18 credits are required as outlined below:

A. Choose four courses from the following list, selecting from four different disciplinary areas (12 cr):

Anthropology

Anthro 355	Globalization, Culture, and Environment
Anthro 431	Cities and Culture
Anthro 442	Humanitarianism in Global Perspective (jointly offered with Global)
Anthro 447	The Global Politics of Human Rights (jointly offered with Global)
Anthro 449	The Human Economy
Anthro 450	Political Anthropology
Anthro 543	Cross-Cultural Study of Religion

Comparative Literature

CompLit 231	Literature and Religion: (subtitle)
CompLit 232	Literature and Politics: (subtitle)

English

English 278	Introduction to World Literatures Written in English: (subtitle)
English 316	World Cinema: (subtitle)
English 522	Studies in World Literatures Written in English: (subtitle)

Global Studies

Global 321	The Global City in History
Global 351	Language, Media, and Social Practice in Global Communications
Global 442	Humanitarianism in Global Perspective (jointly offered with Anthropology)
Global 447	The Global Politics of Human Rights (jointly offered with Anthropology)

History

Hist 210	The Twentieth Century: A Global History
Hist 290	Topics in Global History: (subtitle)
Hist 372	Topics in Global History: (subtitle)

World Literature in Translation

Italian 245	Italian Fictions: (subtitle)
Italian 457	Topics in Italian Literature and Culture in Translation: (subtitle)
Portugs 380	Luso-Brazilian Literature in Translation: (subtitle)
Portugs 457	Seminar in Brazilian Literature
Russian 350	Dostoyevsky and Tolstoy in Translation: Major Works
Russian 391	Russian Literature and Culture in Translation: (subtitle)
Spanish 371	Introduction to Latino Literature in English
Spanish 373	Topics in Latino Literature in English: (subtitle)
Spanish 380	Spanish Literature in Translation: (subtitle)

B. Complete at least two upper-division courses (numbered 300 or above) in a single foreign language (6 cr.).

C. Electives: 11-12 credits from the list of electives for a total of 36 credits.

Course of Study: Minor

The minor in international studies is open to all undergraduate students at the University of Wisconsin-Milwaukee and can be paired with any major or degree program with the exception of a Global Studies major or minor. The International Studies minor consists of a total of 18 credits, in which students must attain a GPA of 2.500 in all UWM credits attempted for the minor. In addition, the College requires that students attain a 2.500 GPA in all minor credits attempted, including transfer work. Students must complete in residence at UWM at least 9 credits of upper-division courses (numbered 300 and above) in the minor. Students may declare the minor after completing at least 15 credits.

Requirements for the Minor (18 credits total)

I. IntlSt 550	Senior Seminar in International Studies: (subtitle)	3
II. One course from the following list of “Analytical Techniques” courses		3-4
Anthro 560	Introduction to Research Methods in Anthropology	
Anthro 561	Techniques and Problems in Ethnography	
Econ 210	Economic Studies	
Geog 215	Introduction to Geographic Information Sciences	
Hist 294	Seminar on Historical Method: Research Techniques	
MthStat 215	Elementary Statistical Analysis	
Pol Sci 203	Introduction to Political Science Research	
Pol Sci 390	Political Data Analysis	
Sociol 261	Introduction to Statistical Thinking in Sociology	
WGS 411	Women's and Gender Studies Research Methods: (subtitle)	

III. Two courses from one of the options (A, B, or C) listed below 6

IV. Six additional credits from the approved electives list 6

Option A: International Politics and World Affairs. This option emphasizes political aspects of international studies.

Econ 351	Introduction to International Economic Relations
Econ 353	Economic Development
Hist 434	The United States as a World Power in the Twentieth Century
Pol Sci 316	International Law
Pol Sci 337	International Organization and the United Nations
Pol Sci 338	Seminar in International Relations: (subtitle) (part of UN Summer Seminar)
Pol Sci 340	Politics of Nuclear Weapons
Pol Sci 359	Problems of American Foreign Policy
Pol Sci 365	Theories and Methods in International Politics
Pol Sci 370	International Conflict
Pol Sci 371	Nationalism and Ethnic Conflict

Option B: International Economics and Development. This option emphasizes the political, economic, and cultural aspects of developing countries as well as the economic aspects of international studies.

Bus Adm 465	International Marketing
Bus Adm 496	International Business
Econ 301	Intermediate Microeconomics
Econ 302	Intermediate Macroeconomics
Econ 351	Introduction to International Economic Relations
Econ 353	Economic Development
Econ 454	International Trade
Econ 455	International Finance
Pol Sci 316	International Law
Pol Sci 330	The Politics of International Economic Relations
Pol Sci 370	International Conflict
UrbPlan 315	Great Cities of the World: Their Growth and Guided Urbanization
UrbPlan684	Planning Local Economic Development

Option C: World Languages and Culture. This option emphasizes the cultural aspects of international studies, examining topics such as globalization and politics from a range of perspectives.

Anthro 355	Globalization, Culture, and Environment
Anthro 431	Cities and Culture
Anthro 442	Humanitarianism in Global Perspective (jointly offered with Global)
Anthro 447	The Global Politics of Human Rights (jointly offered with Global)
Anthro 449	The Human Economy
Anthro 450	Political Anthropology
Anthro 543	Cross-Cultural Study of Religion
CompLit 231	Literature and Religion: (subtitle)

CompLit 232	Literature and Politics: (subtitle)	
English 278	Introduction to World Literatures Written in English: (subtitle)	
English 316	World Cinema: (subtitle)	
English 522	Studies in World Literatures Written in English: (subtitle)	
Global 321	The Global City in History	
Global 351	Language, Media, and Social Practice in Global Communications	
Hist 210	The Twentieth Century: A Global History	
Hist 290	Topics in Global History: (subtitle)	
Hist 372	Topics in Global History: (subtitle)	
Italian 245	Italian Fictions: (subtitle)	
Italian 457	Topics in Italian Literature and Culture in Translation: (subtitle)	
Portugs 380	Luso-Brazilian Literature in Translation: (subtitle)	
Portugs 457	Seminar in Luso-Brazilian Literature	
Russian 350	Dostoyevsky and Tolstoy in Translation: Major Works	
Russian 391	Russian Literature and Culture in Translation: (subtitle)	
Spanish 371	Introduction to Latino Literature in English	
Spanish 373	Topics in Latino Literature in English: (subtitle)	
Spanish 380	Spanish Literature in Translation: (subtitle)	
Electives		
Africol 232	Survey of African Societies and Cultures	3
Africol 311	African Religious Thought and Social Organization	3
Africol 320	Black Cultures in Latin America and the Caribbean	3
Africol 325	Political Economy of Africa/China Relations	3
Africol 329	Economic Growth and Sustainable Development in Africa	3
Africol 334	Survey of Black American and Black Brazilian Societies	3
Africol 344	Political Movements and Organizations in the Afroworld	3
Africol 351	Sex, Marriage, and Healthcare in the Afroworld	3
Africol 352	Extended Families in Black Societies	3
Africol 362	Philosophy and Thought in the Afroworld II	3
Africol 414	The Black Woman in America, Africa, and the Caribbean	3
Africol 418	Race, Class, and Gender in the Caribbean	3
Africol 420	The Political Economy of Slavery	3
Africol 565	Selected Texts/Topics in Africology: (subtitle)	3
Anthro 102	Introduction to Anthropology: Culture and Society	3
Anthro 104	Lifeways in Different Cultures: A Survey of World Societies	3
Anthro 156	Food and Culture	3
Anthro 250	Women's Roles in Cross-Cultural Perspective	3
Anthro 320	Peoples and Cultures of Africa	3
Anthro 326	Peoples and Cultures of South Asia	3
Anthro 349	Seminar in Ethnography and Cultural Processes	3
Anthro 355	Globalization, Culture, and Environment	3
Anthro 362	System Failure: Globalization and Language Extinction (or GLOBAL 362)	3
Anthro 381	Honors Seminar: (with appropriate subtitle)	3
Anthro 431	Cities and Culture	3
Anthro 440	Medical Anthropology	3
Anthro 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3
Anthro 442	Humanitarianism in Global Perspective (or GLOBAL 442)	3
Anthro 443	Medicine and Pharmaceuticals in the Global Age	3
Anthro 445	Psychological Anthropology	3
Anthro 446	The Child in Different Cultures	3
Anthro 447	The Global Politics of Human Rights (or GLOBAL 447)	3
Anthro 448	Culture and Human Ecology	3
Anthro 449	The Human Economy	3
Anthro 450	Political Anthropology	3

Anthro 540	Applications of Anthropology	3
Anthro 543	Cross-Cultural Study of Religion	3
Anthro 561	Techniques and Problems in Ethnography	3
Anthro 641	Seminar in Anthropology: (subtitle)	3
Arabic 111	Cultures and Civilizations of the Muslim Middle East	3
Art 509	Art and Design Seminar: (subtitle)	
ArtHist 205	History of Film I: Development of an Art	3
ArtHist 206	History of Film II: Development of an Art	3
ArtHist 382	Chinese Art and Architecture	3
ArtHist 481	Topics in Chinese Art: (subtitle)	3
Bus Adm 201	Introduction to Financial Accounting	3
Bus Adm 456	International Financial Management	3
Bus Adm 465	International Marketing	3
Bus Adm 496	International Business	3
Chinese 150	Contemporary Chinese Society and Culture	3
Chinese 200	Chinese Calligraphy	3
Chinese 320	Contemporary Chinese Societies through Film	3
Commun 310	Communication in Organizations	3
Commun 350	Intercultural Communication	3
Commun 363	Communication in Human Conflict	3
Commun 450	Cross-Cultural Communication	3
Commun 550	International and Global Communication	3
Commun 665	Introduction to Mediation	3
Commun 675	Communication in International Mediation and Peacebuilding	3
Commun 681	Seminar in Communication in a World of AIDS	3
CompLit 135	Experiencing Literature in the 21st Century: (subtitle)	3
CompLit 207	World Literature in Translation: Antiquity through the 1600s	3
CompLit 208	World Literature in Translation: The 17th Century to the 21st Century	3
CompLit 231	Literature and Religion: "Nazis and Anti-Semitic Propaganda" subtitle	3
CompLit 232	Literature and Politics: (subtitle)	3
CompLit 233	Literature and Film: (subtitle)	3
CompLit 230	Literature and Society: (subtitle)	
CompLit 350	Topics in Comparative Literature: (subtitle)	3
CompLit 360	Seminar in Literature and Cultural Experience: (subtitle)	3
CompLit 362	Transnational Asian Cinemas: (subtitle)	3
CompLit 363	Chinese Literature in the Global Context: (subtitle)	3
CompLit 461	Film-Fiction Interaction: (subtitle)	3
CompLit 463	Literary Criticism: Major Authors	3
CompLit 464	Seminar in Comparative Literary Criticism: (subtitle)	3
Econ 248	Economics of Discrimination	3
Econ 301	Intermediate Microeconomics	3
Econ 302	Intermediate Macroeconomics	3
Econ 328	Environmental Economics	3
Econ 351	Introduction to International Economic Relations	3
Econ 353	Economic Development	3
Econ 413	Statistics for Economists	3
Econ 447	Labor Economics	3
Econ 454	International Trade	3
Econ 455	International Finance	3
Ed Pol 698	Field Work in International Education	1-6
English 210	International English	3
English 214	Writing in the Professions: "International Business Writing" subtitle	3
English 278	Introduction to World Literatures Written in English	3
English 285	Modern Irish Language and Literature in Translation	3

English 306	Survey of Irish Literature	3
English 312	Topics in Film Studies: (subtitle)	3
English 316	World Cinema: (subtitle)	3
English 381	World Literatures Written in English: (subtitle)	3
English 404	Language, Power, and Identity	3
English 522	Studies in World Literatures Written in English: (subtitle)	3
English 622	Seminar in Irish Literature: (subtitle)	3
English 624	Seminar in Modern Literature: (subtitle)	3
English 625	Seminar in Literary History: (subtitle)	3
English 627	Seminar in Literature and Culture: (subtitle)	3
Ethnic 250	Selected Topics in Ethnic Studies: (with appropriate subtitle)	3
FLL 216	Survey of Civilization	
French 311	French for International Business/Professional Communication: Oral Emphasis	3
French 324 (327)	Contemporary French Language and Culture	3
French 357	Literature of the French-Speaking World in Translation: (subtitle)	
French 361	French for International Business/Professional Communication: Writing Focus	3
French 426	Growing Up French	3
French 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries	3
French 431	Seminar in Literature of the Francophone World: (subtitle)	3
French 432	Seminar in French and Francophone Cultures: (subtitle)	3
French 450	Institutions and Culture of Contemporary France	3
French 451	Cinema of the French-Speaking World: (subtitle)	3
French 510	Seminar on Masterpieces of Literature Written in French: (subtitle)	3
Geog 125	Introduction to Environmental Geography	3
Geog 213	Geography of Asia	3
Geog 231	Geography of Islam	3
Geog 261	Africa: Topical Analysis	3
Geog 309	Nationalities and Nations of the World	3
Geog 315	Globalization and Economic Development	
Geog 330	Europe: East and West	3
Geog 400	Population, Environment, Development	3
Geog 421	Geography of Latin America	3
Geog 443	Cities of the World: Comparative Urban Geography	3
Geog 470	Geography of South Asia	3
German 333	Analysis of German Texts	3
German 334	Introduction to German Literature and Culture	3
German 360	German for the Global World	3
German 410	German Cultural History	3
German 411	Modern-Day Germany	3
German 415	Topics in German Civilization: (subtitle)	3
German 460	German Literature from 1965 to the Present	3
Global 101	Introduction to Global Studies I: People and Politics	3
Global 201	Introduction to Global Studies II: Economics and the Environment	3
Global 202	Introduction to Global Studies III: Globalization and Technology	3
Global 297	Study Abroad: (subtitle)	1-12
Global 311	Contexts for Global Management	3
Global 321	The Global City in History	3
Global 351	Language, Media, and Social Practice in Global Communications	3
Global 362	Systems Failure: Globalization and Language Extinction	3
Global 371	Rethinking Global Security	3
Global 442	Humanitarianism in Global Perspectives	3
Global 443	Medicine and Pharmaceuticals in the Global Age	3

Global 447	The Global Politics of Human Rights	3
Global 448	Intellectual Property in the Global Information Economy	3
Global 451	Access, Security, and Intercultural Contexts in Global Communication	3
Global 471	Strategies for Realizing Security in Global Contexts	3
Global 489	Internship in Global Studies, Upper Division	1-6
Global 497	Study Abroad: (subtitle)	1-12
Global 499	Ad Hoc: (subtitle)	1-6
Global 541	Cross-Cultural Management	3
Global 571	Global Security Capstone: Future Trends	2
HebrSt 254	Studies in Hebrew Culture: (subtitle)	3
Hist 180	Latin American Society and Culture	3
Hist 200	Historical Roots of Contemporary Issues: "Cuba Under Castro" subtitle	3
Hist 210	The Twentieth Century: A Global History	3
Hist 236	Britain Since 1688: Rise and Decline of a Great Power	3
Hist 242	Women and Gender in Europe: 1750 to the Present (if not selected as one of the introductory courses)	3
Hist 248	The First World War	3
Hist 249	The Second World War in Europe	3
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries (if not selected as one of the introductory courses)	3
Hist 285	The Second World War in the Pacific	3
Hist 286	The Korean War	3
Hist 287	The Vietnam War	3
Hist 290	Topics in Global History: (subtitle)	3
Hist 341	Imperial Russia	3
Hist 343	Russia Since 1917	3
Hist 348	Poland and its Neighbors, 1945 to the Present	3
Hist 353	Ireland Since 1600: Colony to Independent State	3
Hist 363	Germany: Hitler and the Nazi Dictatorship	3
Hist 364	The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945	3
Hist 372	Topics in Global History: (subtitle)	3
Hist 374	Europe: The Age of Dictators 1914-1945	3
Hist 377	Modern China	3
Hist 378	Revolution in China	3
Hist 382	Southeast Asia: The Age of Imperialism and Revolution Since 1800	3
Hist 385	Political Islam to Zionism: Middle Eastern Intellectual History, 1798-1990	3
Hist 386	Africa: The Age of Empires to 1880	3
Hist 387	Africa: Imperialism and Independence Since 1880	3
Hist 392	The History of Southern Africa	3
Hist 393	History of Mexico	3
Hist 394	History of Japan to 1600	3
Hist 395	History of Japan Since 1600	3
Hist 400	Topics in Latin American and Caribbean History: (subtitle)	3
Hist 401	Topics in Middle Eastern History: (subtitle)	3
Hist 402	Topics in Asian History: (subtitle)	3
Hist 434	The United States as a World Power in the Twentieth Century	3
Honors 200	Honors Seminar: The Shaping of the Modern Mind (with appropriate subtitle)	3H
IntlSt 260	Introduction to International Careers	2
IntlSt 450	Internship in International Studies	2-6
IntlSt 699	Independent Study	1-6
Italian 245	Italian Fictions: (subtitle)	3
Italian 256	Introduction to Italian Food Studies: A Cultural History	
Italian 312	Contemporary Italian Language and Culture	3

Italian 321	Introduction to Italian Literature	3
Italian 322	Introduction to Italian Literature and Film	3
Italian 457	Topics in Italian Literature and Culture in Translation: (subtitle)	3
Japan 110	Japanese Popular Culture	3
Japan 200	Japanese Culture and Its Effects on Language	3
Japan 321	Analyzing Hollywood-Japan Film Remakes	3
Japan 331	Reading Japanese Short Stories	3
Japan 441	Business Japanese I	3
Jewish 328	The Arab-Israeli Conflict	
Jewish 358	The Jews of Modern Europe: History and Culture	
Jewish 421	Introduction to Yiddish Literature: (subtitle)	
LACS 101	Introduction to Latin American and Caribbean Studies	3
LACUSL 300	Advanced Topics in Latin American, Caribbean, and U.S. Latino Studies: "Latino, Latin American, and Caribbean Cities" subtitle	3
Nurs 110	Introduction to Global Health	
PeaceSt 201	Introduction to Conflict Resolution and Peace	3
Philos 204	Introduction to Asian Religions	3
Philos 237	Technology, Values, and Society	3
Polish 236	Polish Culture in its Historical Setting	3
Pol Sci 300	Western European Politics	3
Pol Sci 302	Politics of Eastern Europe	3
Pol Sci 310	Russian and Post-Soviet Politics	3
Pol Sci 316	International Law	3
Pol Sci 320	Politics of Developing Countries	3
Pol Sci 325	Latin American Politics	3
Pol Sci 330	The Politics of International Economic Relations	3
Pol Sci 333	Seminar in Comparative Politics: (subtitle)	3
Pol Sci 334	German Politics and the New Europe	3
Pol Sci 335	Comparative Political Systems	3
Pol Sci 337	International Organization and the United Nations	3
Pol Sci 338	Seminar in International Relations: (subtitle)	3
Pol Sci 339	European Integration	3
Pol Sci 340	Politics of Nuclear Weapons	3
Pol Sci 343	Asian International Relations	3
Pol Sci 359	Problems of American Foreign Policy	3
Pol Sci 365	Theories and Methods in International Politics	3
Pol Sci 370	International Conflict	3
Pol Sci 371	Nationalism and Ethnic Conflict	3
Pol Sci 381	The Development of Western Political Thought	3
Pol Sci 382	Modern Political Thought	3
Pol Sci 423	Conduct of American Foreign Affairs	3
Portugs 225	Understanding Brazil: (subtitle)	3
Portugs 277	Portuguese Discussion Section: (subtitle)	1
Portugs 299	Ad Hoc: (subtitle)	1-6
Portugs 360	Luso-Brazilian Culture: (subtitle)	3
Portugs 380	Luso-Brazilian Literature in Translation: (subtitle)	3
Portugs 457	Seminar in Brazilian Literature: (subtitle)	3
Portugs 499	Ad Hoc: "Understanding Portuguese-Speaking Africa" subtitle	3
Russian 245	Russian Life and Culture	3
Russian 350	Dostoyevsky and Tolstoy in Translation: Major Works	3
Russian 391	Russian Literature and Culture in Translation: (subtitle)	3
Sociol 324	Comparative Race Relations	3
Sociol 325	Social Change	3
Sociol 331	Sociology of Health Care	3

Sociol 333	Social Class in Industrial Society	3
Sociol 377	Urbanism and Urbanization	3
Sociol 450	Environmental Sociology	3
Sociol 495	Seminar in Sociology: “International Urban Sociology” subtitle	3
Spanish 225	Understanding the Hispanic World: (subtitle)	3
Spanish 332	Business and Legal Spanish I	3
Spanish 350	Introduction to Literary Analysis	3
Spanish 371	Introduction to Latino Literature in English	3
Spanish 373	Topics in Latino Literature in English: (subtitle)	3
Spanish 380	Spanish Literature in Translation: (subtitle)	3
Spanish 391	Social and Historical Issues in the Hispanic World: (subtitle)	3
Spanish 442	Business and Legal Spanish II	3
Spanish 461	Topics in Hispanic Culture: (subtitle)	3
Spanish 470	Survey of Hispanic Literature and Civilization	3
Spanish 472	Survey of Spanish-American Literature and Civilization	3
Spanish 474	Survey of Spanish Literature and Civilization	3
Spanish 506	Seminar in Spanish Literature: (subtitle)	3
Spanish507	Seminar in Spanish American Literature: (subtitle)	3
Spanish 570	Seminar in Spanish Golden Age Literature: (subtitle)	3
UrbPlan 315	Great Cities of the World: Their Growth and Guided Urbanization	3
UrbPlan 661	Neighborhood Planning and Revitalization	3
UrbPlan 684	Planning Local Economic Development	3
WGS 500	Advanced Social Science Seminar in Women's and Gender Studies: “Gender in Asia” subtitle	

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[International Studies \(INTLST\)](#)

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UWM Undergraduate Catalog 2017-2018

College of Letters and Science

Linguistics

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Linguistics inquires into the nature of human language. In modern times, research in linguistics has concentrated on the search for universal properties of human languages in an effort to understand that unique characteristic of human beings, the faculty of language. Recognition of the importance of modern linguistic research continues to grow today, with research results now seen to have implications for numerous additional disciplines, including anthropology, computer science, education, ethnology, psychology, sociology, and speech pathology.

The Linguistics Department provides both a general and an applied option leading to an undergraduate major as well as an option for a minor in linguistics. Many of the courses taught in the Linguistics Department form a required or recommended portion of the curricula of other academic programs.

Course of Study: Linguistics Major

The undergraduate major in linguistics may be obtained by pursuing either the general major option or the applied major option. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. The College also requires students to complete a research experience in their major. Students will complete this requirement in the context of the following courses:

Linguistics 420	Introduction to Second Language Acquisition
Linguistics 450	General Phonetics and Phonetics Practicum
Linguistics 460	Introduction to Phonology
Linguistics 464	Introduction to Syntax
Linguistics 470	Historical/Comparative Linguistics
Linguistics 474	Language Typology and Universals
Linguistics 560	Advanced Phonology
Linguistics 564	Advanced Syntax

GENERAL LINGUISTICS MAJOR OPTION

Basic Requirements (12 cr)

Linguistics 350	Introduction to Linguistics	3
Linguistics 450	General Phonetics and Phonetics Practicum	3
Linguistics 460	Introduction to Phonology	3
Linguistics 464	Introduction to Syntax	3

Special Requirements (9 cr). At least three of the following:

Linguistics 415	First Language Acquisition	3
Linguistics 420	Introduction to Second Language Acquisition	3
Linguistics 430	Language and Society	3
Linguistics 466	Semantics	3

Linguis 468	Language in Its Various Forms: (subtitle)	3
Linguis 470	Historical Linguistics	3
Linguis 474	Language Typology	3
Linguis 560	Advanced Phonology	3
Linguis 564	Advanced Syntax	3

Electives (9 cr)

Coursework in linguistics and related areas, selected from the approved electives list (see below) in consultation with an advisor in the Linguistics program.

APPLIED LINGUISTICS MAJOR OPTION

Basic Requirements (18 cr)

Linguis 350	Introduction to Linguistics	3
Linguis 420	Introduction to Second Language Acquisition	3
Linguis 430 or	Language and Society	3
Linguis 570	Issues in Bilingualism (jointly offered with Anthro 570)	3
Linguis 450	General Phonetics and Phonetics Practicum	3
Linguis 460	Introduction to Phonology	3
Linguis 464	Introduction to Syntax	3

Special Requirements (6 cr). At least two of the following:

Linguis 410	Linguistics and Grammar in ESL Education	3
Linguis 415	First Language Acquisition	3
Linguis 432	Urban Dialects	3
Linguis 440	Psycholinguistics	3
Linguis 468	Language in Its Various Forms	3
Linguis 565 (426)	Introduction to Adult/University-Level TESOL	3
Linguis 567	Materials for ESL Instruction	3

Electives (6 cr)

Coursework in linguistics and related areas, selected from the approved electives list (see below) in consultation with an advisor in the Linguistics program.

Linguistics Major Approved Electives

All linguistics courses not selected to meet a specific requirement in the option.

All language courses. (Does not include literature courses).

The following courses offered by other units:

Anthro 105 (360)	Introduction to Linguistic Anthropology
Anthro 361	Applications in Linguistic Anthropology
Anthro 362	System Failure: Globalization and Language Extinction
Anthro 366	Aspects of Linguistic Anthropology
Anthro 641	Seminar in Anthropology (with linguistics subtitle)
Commun 320	Nonverbal Communication
Commun 350	Intercultural Communication
ComSDis 230	Introduction to Phonetics
ComSDis 240	Normal Speech and Language Development
CompSci 132	Introduction to Computers and Programming
CompSci 423	Introduction to Natural Language Processing
CompSci 431 (631)	Programming Languages Concepts
English 211	Aspects of the English Language: (subtitle)
English 400	Introduction to English Linguistics (jointly offered with Linguistics)
English 402	Theories of Language and Literature (with language focus)
English 403	Survey of Modern English Grammar
French 392	Phonetics
German 451	Introduction to German Linguistics
German 671	Seminar on Phonetics
Philos 211	Elementary Logic
Philos 212	Modern Deductive Logic
Philos 511	Symbolic Logic

Philos 516	Language and Meaning
Philos 517	Special Problems in the Philosophy of Language and Linguistics: (subtitle)
Spanish 341	Introduction to Hispanic Linguistics
Spanish 443 (340)	Spanish Phonetics and Phonology
Spanish 444 (344)	Spanish Syntax and Morphology
Spanish 446	Hispanic Sociolinguistics
Spanish 541 (441)	History of the Spanish Language

Course of Study: Linguistics Minor

The undergraduate linguistics minor may be obtained by pursuing either the general or the applied option. Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including transfer work.

GENERAL LINGUISTICS MINOR OPTION

Basic Requirements (12 cr)

Linguistics 350	Introduction to Linguistics	3
Linguistics 430	Language and Society	3

One of the following four courses:

Linguistics 415	First Language Acquisition	3
Linguistics 460	Introduction to Phonology	3
Linguistics 464	Introduction to Syntax	3
Linguistics 468	Language in Its Various Forms: (subtitle)	3

Electives (9 cr)

Coursework in linguistics and related areas, selected from the approved electives list (see above) in consultation with an advisor in the Linguistics program. Students are encouraged to focus their electives in an area closely aligned with the study of linguistics, including various foreign languages, English, anthropology, philosophy, computer science, and education, among others.

APPLIED LINGUISTICS MINOR OPTION

Basic Requirements (18 cr)

Linguistics 350	Introduction to Linguistics	3
Linguistics 420	Introduction to Second Language Acquisition	3
Linguistics 430	Language and Society	3
Anthro/Linguistics 570	Issues in Bilingualism (jointly offered with Anthro 570)	3

One of the following five courses:

Linguistics 415	First Language Acquisition	3
Linguistics 460	Introduction to Phonology	3
Linguistics 464	Introduction to Syntax	3
Linguistics 468	Language in Its Various Forms: (subtitle)	3
Linguistics 565 (426)	Introduction to Adult/University-Level TESOL	3

Electives (3 cr)

Coursework in linguistics and related areas, selected from the approved electives list (see above) in consultation with an advisor in the Linguistics program. Students are encouraged to focus their electives in an area closely aligned with the study of linguistics, including various foreign languages, English, anthropology, philosophy, computer science, and education, among others.

Related Program

A related program is the Certificate in Adult/University-Level Teaching English to Speakers of Other Languages (TESOL).

Faculty

Roberta Corrigan, Prof. Emerita, PhD

Garry Davis, Prof., PhD, Chair
University of Michigan

Fred Eckman, Distinguished Prof., PhD
Indiana University

Nicholas Fleisher, Assoc. Prof., PhD
University of California, Berkeley

Gregory Iverson, Prof. Emeritus, PhD

Edith Moravcsik, Prof. Emerita, PhD

Hamid Ouali, Assoc. Prof., PhD
University of Michigan-Ann Arbor

Hanyong Park, Assoc. Prof., PhD
Indiana University

Sandra Pucci, Assoc. Prof., PhD
University of Southern California

Anne Pycha, Asst. Prof., PhD
University of California, Berkeley

Jae Yung Song, Assoc. Prof., PhD
Brown University

Tue Trinh, Asst. Prof., PhD
Massachusetts Institute of Technology

Jessica Wirth, Assoc. Prof. Emerita, PhD

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[Journalism, Advertising, and Media Studies](#)

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The Department of Journalism, Advertising, and Media Studies offers a major or minor in journalism, advertising, and media studies that emphasizes the study of the social implications and responsibilities of the mass media, an understanding of the processes of communication, and a fundamental knowledge of media communication techniques and procedures. The program provides students with a broad background in the liberal arts and sciences, which are vital aspects of contemporary life and essential to those entering careers in media communication.

Criteria and Procedures for Admission to the Major or Minor

Students will be eligible to declare the JAMS major or minor without completing an admissions application if they meet all of the following criteria:

1. They have completed JAMS 101 and 201 with at least a 2.500 GPA in the two courses.
2. They have an overall GPA of at least 2.500.
3. They have a least 24 credits on their transcript, excluding credits obtained through examinations (such as CLEP and AP credits) and retroactive foreign language credits. These 24 credits must include at least 12 credits taken in residence at UWM unless the applicant has completed a bachelor's degree and is seeking an additional major or degree.

To declare the major, students who meet the listed criteria should call (414) 229-4436 or email JAMS-email@uwm.edu. Students enrolled in JAMS 201 will be guided through the declaration process by faculty near the end of the semester. NOTE: JAMS does not declare new majors/minors during the week before classes begin in fall or spring semester or during the first two weeks of those semesters.

Students who do not meet the declaration requirement listed above must go through the appeals process for admission to the JAMS major or minor. Go to the Journalism, Advertising, and Media Studies website (uwm.edu/journalism-advertising-media-studies/) for application procedures.

Course of Study: Major

A Journalism, Advertising, and Media Studies (JAMS) major requires a minimum of 36 credits in JAMS, including 18 or more credits in courses numbered 300 or above. JAMS majors also must take at least 12 credits in a single major, department, or certificate program outside of JAMS, of which at least 6 credits must be at the 300 level or above. In addition to JAMS 101 and 201, which are required for admission to the major and which count toward the 36 required credits, all majors must complete at least one JAMS 600-level course with the word "Seminar" in its title to meet the L&S requirement for a research experience in the major, and JAMS 559 (Law of Mass Communication). Majors also

must complete the requirements of one of three concentrations (Journalism/Documentary, Media Studies, or Advertising/Public Relations). Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. Students may count a maximum of 6 credits in any combination of JAMS 399 and JAMS 600, each of which can be taken to a maximum of 6 credits. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including transfer work.

CONCENTRATION REQUIREMENTS

1. Journalism

JAMS 204	News Writing and Technology	3
JAMS 320	Integrated Reporting	3
At least two from the following courses:		
JAMS 342 (542)	Television News Reporting	3
JAMS 500	Advanced Reporting	3
JAMS 544 (642)	Television Newsroom Management	3
JAMS 602	Specialized Reporting	3

2. Media Studies

JAMS 262	Principles of Media Studies	3
JAMS 562	Media Studies and Culture	3
One production course from among the following:		
JAMS 204	News Writing and Technology	3
JAMS 231	Publication Design	3
JAMS 232	Photojournalism	3
JAMS 306	Feature and Magazine Article Writing	3
JAMS 307	Advertising and Public Relations Writing and Production	3
JAMS 336	Media Graphics	3
JAMS 504	Critical and Opinion Writing	3
JAMS 602	Specialized Reporting: (subtitle)	3

One Media Studies course from among the following (in addition to at least one JAMS 600-level course with the word “Seminar” in its title selected to meet the L&S requirement for a research experience in the major):

JAMS 356 (556)	Media Literacy	3
JAMS 360 (560)	History of Mass Media	3
JAMS 361	Media Ethics	3
JAMS 450	Race and Ethnicity in the Media	3
JAMS 614	Seminar in Media and Public Opinion	3
JAMS 615	Seminar in Media and Politics	3
JAMS 620	Seminar in Global Media	3
JAMS 645 (445)	Seminar in Health and the Media	3
JAMS 659	Seminar in Comparative Media Law	3
JAMS 660	Seminar in Contemporary Issues in Media Studies	3
JAMS 661	Seminar in Media Communication and Society	3

3. Advertising/Public Relations

JAMS 207	Introduction to Advertising and Public Relations	3
JAMS 307	Advertising and Public Relations Writing and Production	3
JAMS 505	Research for Advertising and Public Relations	3

Course of Study: Minor

A minor in journalism, advertising, and media studies consists of a minimum of 18 credits in journalism, advertising, and media studies including:

JAMS 101	Introduction to Mass Media	3
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At least 9 credits must be at the 300 level or above taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including transfer work.

Courses

[Journalism, Advertising, and Media Studies \(JAMS\)](#)

Cross-listed Courses

The following courses offered by the Department of English may be used to fulfill curricular requirements of the undergraduate major or minor in journalism, advertising, and media studies:

English 430	Advanced Writing Workshop	3
English 435	Professional and Technical Writing	3

Related Course

The following course offered by the Department of English may be of interest to JAMS students but may not be used to fulfill curricular requirements of the JAMS major or minor:

English 206	Technical Writing	3
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Web Home Pages:

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Mathematical Sciences

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Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences, as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty, discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

A major in **mathematical sciences** allows students to design, in conjunction with an advisor, a personalized program to fit individual interests and talents. Students may major in *actuarial science*, *atmospheric science*, or *mathematics*.

Actuarial science is the mathematical analysis of problems in economics, finance, and insurance. It requires knowledge of statistics, probability, and interest theory and how they relate to financial issues.

Atmospheric science is the study of short-term weather and long-term climate, involving both applied activities such as weather forecasting and analysis and fundamental research. It uses advanced methods in statistics and numerical modeling.

The **mathematics major** has been designed to be flexible so that students could complete their major requirements via courses that match their interests and goals. Many students should find it relatively easy to complete double majors in mathematics and another subject.

Most mathematics courses belong in one of the following four groups: applied mathematics, computational mathematics, pure mathematics, and statistics.

Applied Mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.

Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing

and other computational analysis.

Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.

Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should consult the School of Education section of this catalog.

Please visit the departmental web page at <http://uwm.edu/math/> and follow the links to the undergraduate program.

Curricular Areas in Mathematical Sciences

Students should note that there are three curricular areas and corresponding abbreviations in the Department of Mathematical Sciences: Atmospheric Science (Atm Sci), Mathematics (Math), and Mathematical Statistics (MthStat).

Course of Study: Majors

Students considering a major in the Department of Mathematical Sciences need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and students should check regularly with their advisors to plan their courses of study in a coherent and timely fashion.

Preparatory Curriculum. Students in all majors in the Department of Mathematical Sciences must complete Math 231 (or 213), 232, and 233 (or equivalent). Math 221 and 222 are equivalent to Math 231, 232, and 233. Students majoring in actuarial science or mathematics must have a GPA of at least 2.500 in these courses. All majors must take either Math 234 or 240, as well as a course in computer programming in a modern, high-level language (e.g., CompSci 151, 153, 250, or 251). The department also recommends strongly one year of calculus-based physics. Actuarial science and atmospheric science majors must complete additional preparatory curricula, as indicated below.

Capstone Experience. Students in all majors and major options in the Department of Mathematical Sciences must complete a "Capstone Experience." The aim of the department's capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. For Actuarial Science majors, the capstone is Math 599. For Atmospheric Science majors, the capstone is Atm Sci 599. Mathematics majors may choose either Math 599 or Math 575. Students must obtain consent of a professor to enroll in Atm Sci 599 or Math 599.

Actuarial Science Major

The actuarial science major is an interdisciplinary program intended to prepare students for professional examinations and employment as actuaries. This major is available as a BA degree from the College of Letters and Science, or as a second major for students completing another UWM degree. Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

Additional Preparatory Curriculum

Bus Adm 201	Understanding and Using Financial Statements	3
Econ 103	Principles of Microeconomics	3
Econ 104	Principles of Macroeconomics	3
Math 234	Linear Algebra and Differential Equations	4

At least 6 credits to be completed from among:

Bus Adm 230	Introduction to Information Systems	3
CompSci 151	Introduction to Scientific Programming in Fortran	3
CompSci 250	Introductory Computer Programming	3

One of the following three courses:

MthStat 215	Elementary Statistical Analysis	3
Econ 210	Economic Statistics	3
Bus Adm 210	Introduction to Management Statistics	3

Core Curriculum

The following work is required:

Math 311	Theory of Interest	4
Math 599	Capstone Experience	1
MthStat 361	Introduction to Mathematical Statistics I	3
MthStat 362	Introduction to Mathematical Statistics II	3
MthStat 563	Regression Analysis	3
MthStat 564	Time Series Analysis	3
MthStat 591	Foundations in Professional Practice in Actuarial Science	1
MthStat 592	Actuarial Science Laboratory I: Probability	1
MthStat 593	Actuarial Science Laboratory II: Interest Theory, Finance, Economics	1

One of the following two courses:

Bus Adm 350	Principles of Finance	3
Bus Adm 450	Intermediate Finance	3

One of the following two courses:

Econ 301	Intermediate Microeconomics	3
Econ 302	Intermediate Macroeconomics	3

One of the following three pairs:

A1. Math 571	Introduction to Probability Models	3
A2. MthStat 691	Actuarial Models I: Life Contingencies	3
B1. Math 571	Introduction to Probability Models	3
B2. MthStat 692	Actuarial Models II: Financial Economics	3
C1. MthStat 596	Actuarial Statistics I: Fitting of Loss Models	3
C2. MthStat 597	Actuarial Statistics II: Risk Measures, Credibility, and Related Topics	3

Recommended Electives. To achieve the best preparation for an actuarial career, students actively should pursue internship opportunities with insurance companies, consulting firms, and other organizations that require actuarial science knowledge. Once such an opportunity is secured, the student should enroll in MthStat 489. Students also should take courses in communication (Commun 103, 264) and expand their knowledge in economics (Econ 248, 450). Note that Econ 248 satisfies the cultural diversity requirement.

Honors in the Major

Students in Actuarial Science who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Actuarial Science major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Actuarial Science major; and
4. The passing of at least three professional actuarial exams.

Students who believe they may qualify for honors in Actuarial Science should apply to the Mathematical Sciences Department during their last semester of study.

Students may find information regarding the actuarial profession by checking the web pages of the Department of

Mathematical Sciences or those of the Society of Actuaries (www.soa.org).

Atmospheric Science Major

The atmospheric science division of the department offers courses designed to prepare students for professional work in meteorology in both government and private service and for graduate study in atmospheric sciences. The atmospheric science major is available as a BS degree from the College of Letters and Science, or as a second major for students completing another UWM degree. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. The following courses are required for the atmospheric science major.

Additional Preparatory Curriculum. In addition to the preparatory curriculum required of all mathematical sciences majors, the following courses are required. These courses do not count in calculating the major GPA.

Chem 102	General Chemistry
Physics 209/214	Physics I (Calculus Treatment)
Physics 210/215	Physics II (Calculus Treatment)
CompSci 151	Introduction to Scientific Programming in Fortran

Required Courses (Core)

Atm Sci 240	Introduction to Meteorology
Atm Sci 330	Air-Pollution Meteorology
Atm Sci 350	Atmospheric Thermodynamics
Atm Sci 351	Dynamic Meteorology I
Atm Sci 352	Dynamic Meteorology II
Atm Sci 360	Synoptic Meteorology I
Atm Sci 361	Synoptic Meteorology II
Atm Sci 464	Physical Meteorology: Cloud Physics
Atm Sci 511	Seminar in Atmospheric Radiation and Remote Sensing
Atm Sci 599	Capstone Experience
Math 320	Introduction to Differential Equations

Electives – at least 9 credits from the following courses:

Atm Sci 460	Mesoscale Circulations
Atm Sci 470	Tropical Meteorology
Atm Sci 480	The General Circulation and Climate Dynamics
Atm Sci 497	Study Abroad: (subtitle)
Atm Sci 500	Statistical Methods in the Atmospheric Sciences I
Atm Sci 505	Micrometeorology
Atm Sci 690	Topics in Atmospheric Sciences: (subtitle)
Math 313	Linear Programming and Optimization
Math 315	Mathematical Programming and Optimization
Math 321	Vector Analysis
Math 322	Introduction to Partial Differential Equations
Math 405	Mathematical Models and Applications
Math 413	Introduction to Numerical Analysis
Math 415	Introduction to Scientific Computing
Math 417	Computational Linear Algebra
Math 521	Advanced Calculus I
Math 522	Advanced Calculus II
Math 535	Linear Algebra
Math 571	Introduction to Probability Models
Math 581	Introduction to the Theory of Chaotic Dynamical Systems
Math 601	Advanced Engineering Mathematics I

Math 602	Advanced Engineering Mathematics II
Math 615	Numerical Solution of Partial Differential Equations for Scientific Computing
Math 617	Optimization
MthStat 361	Introduction to Mathematical Statistics I
MthStat 362	Introduction to Mathematical Statistics II
MthStat 467	Introductory Statistics for Physical Sciences and Engineering Students
MthStat 563	Regression Analysis
MthStat 564	Time Series Analysis

Honors in the Major

Students in Atmospheric Sciences who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Atmospheric Sciences major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Atmospheric Sciences major; and
4. Successful completion of at least two semesters of research and/or internship experiences. The research and internship experiences can include one or more of the Capstone Experience (Atm Sci 599), a directed independent study for credit (Atm Sci 699), an internship for credit (Atm Sci 695), the Atmospheric Sciences Study Abroad course (Atm Sci 297/497), undergraduate research for compensation, and participation in the Innovative Weather program at the staff level. The staff level of Innovative Weather is the third level of participation, coming after a pre-internship (several weeks in one semester) and an internship (one semester at 5-10 hours per week). Staff positions are paid, and staff members typically work around 10 hours per week during the fall or spring semesters, more in the summer session.

Students who believe they may qualify for honors in Atmospheric Sciences should apply to the Mathematical Sciences Department during their last semester of study.

Mathematics Major

The mathematics major is available as either a BA or a BS degree from the College of Letters and Science, or as a second major for students completing another UWM degree.

Students electing the mathematics major must complete Math 341 and 24 additional credits in upper-division math courses (those numbered 300 and above, and in curricular areas Math or MthStat). Required among these 24 upper-division math credits are at least six credits in math courses numbered 500 and above, excluding Math or MthStat 591, 599, 699.

Note that Math 381 and MthStat 465 and 467 are not open for credit in the Mathematics major. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including transfer work.

Recommendations

Mathematics courses fall naturally into the following groups:

Applied mathematics group: Math 305, 320, 321, 322, 371, 405, 431, 581, 601, 602

Computational mathematics group: Math 313, 315, 413, 415, 417, 615, 617

Probability and statistics group: Math 571; MthStat 361, 362, 562, 563, 564, 565, 566, 568

Pure mathematics group:

1. Math 521, 522, 531, 535, 551, 621, 622, 631, 632
2. Math 423, 451, 453, 511, 537, 553

For students planning to pursue graduate studies in mathematics, we recommend students take at least 36 cr upper division mathematics courses, with as many courses as possible from Pure Mathematics, Group 1. Many PhD programs require reading knowledge of French, German, or Russian.

For students planning to pursue graduate studies in statistics or economics, we recommend Math 521, 522, and as many as possible of MthStat 361, 362, and 562-568.

For students seeking employment in statistics after the bachelor's degree, we recommend MthStat 361, 362, and as many as possible of MthStat 562-568, as well as courses in computer programming (Comp Sci 250, 251, etc.).

For students seeking general non-academic employment after the bachelor's degree, we recommend courses from the Probability and Statistics group (including MthStat 362), the Applied Mathematics group (including both modeling and differential equations), the Computational Mathematics group, Linear Algebra (Math 535), and courses in computer programming (Comp Sci 240, 250, 251, etc.).

For students intending to become high school mathematics teachers, we recommend courses in algebra (Math 431, 531), geometry (451, 453), linear algebra (535), numerical methods (413), advanced calculus (521, 522), the math education capstone (575), and probability and statistics (MthStat 361&362).

For students pursuing a major in mathematics as a liberal art, for general logical and critical thinking skills, we recommend the Pure Mathematics courses.

Honors in the Major

Students in Mathematics who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Mathematics major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Mathematics major; and
4. At least one of the following:
 - Successful completion of at least two semesters of research and/or internship experiences. These may include one or more of the Capstone Experience (Math 599), a directed independent study for credit (Math 699), an internship for credit (Math 489), and undergraduate research for compensation.
 - Successful completion of at least 6 credits in Mathematical Sciences (curricular areas Math or MthStat) courses numbered 600 or above.
 - A score of at least the 50th percentile on the Math Subject GRE.

Students who believe they may qualify for honors in Mathematics should apply to the Mathematical Sciences Department during their last semester of study.

Course of Study: Minors

Actuarial Science Minor. Admission to this minor requires a minimum GPA of 2.500 in Math 231, 232, and 233 (or equivalent course sequence). Students who have completed these courses with the required GPA may complete a formal declaration of minor at the department office. These three courses do not count in the minor GPA. The following courses are required: Math 234 and 311, and MthStat 361 and 362. In addition, one of the following, with a grade of B- or better in each course taken also is required: Bus Adm 450 or both Econ 301 and 302.

Students must complete at least 9 upper-division (numbered 300 and above) credits for the minor in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition,

students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Atmospheric Science Minor. The minor consists of a minimum of 18 credits in atmospheric science. Six of these credits must include Atm Sci 240 and 360. The remaining 12 Atm Sci credits must be at the 300 level or above. Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Mathematics Minor. Students minoring in mathematics must complete 18 credits in mathematical sciences (curricular areas Math and MthStat) courses numbered 200 and above, of which 9 credits must be upper-division (numbered 300 and above) courses taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, student must attain a 2.500 GPA on all minor credits attempted, including any transfer work. The minor is available as a post-baccalaureate option for students who have graduated.

Applied Mathematics and Computer Science

A related degree program is Applied Mathematics and Computer Science (AMCS), offered and awarded jointly by the College of Letters and Science Department of Mathematical Sciences and the College of Engineering and Applied Science Department of Computer Science. This program allows students to study a mixture of mathematics and computer science suited to their natural interests and ambitions. It highlights the unity of the fields of mathematical sciences and computer science, while still providing a firm foundation for all areas of applied and computational mathematics and computer science. For further information, please refer to the Inter-School/College Programs section of this catalog, and visit the program's web page at uwm.edu/math/undergraduate/majors/applied-mathematics-computer-science/.

Courses

[Atmospheric Sciences \(ATM SCI\)](#)

[Mathematics \(MATH\)](#)

[Mathematical Statistics \(MTHSTAT\)](#)

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Peace Studies and Conflict Resolution

Christine Wolf, *Coordinator*, Garland 111, cawolf@uwm.edu, (414) 229-4846

The Certificate Program in Peace Studies and Conflict Resolution is a multidisciplinary program with the aim of analyzing and understanding factors that encourage or inhibit war, peace, violence, conflict, or cooperation. The program provides students with practical skills and ideas to help people communicate and cooperate better in order to make sustainable organizational and societal change.

Eligibility

The certificate in peace studies and conflict resolution is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. The program leading to the certificate is open to students majoring in any field.

Course of Study

A student must complete 18 credits in the program; nine of these must be in advanced courses (300 level and above). All students are required to complete an exit survey before the certificate is awarded.

A 2.500 GPA must be achieved in courses prescribed for the certificate. At least one-half of the work for the certificate must be completed at UWM.

Students interested in the peace studies and conflict resolution certificate program should consult with the coordinator or the advisor to plan a program.

There are three components to the program:

I. Required Courses: Two of the following five courses (6 credits):

PeaceSt 201 Introduction to Conflict Resolution and Peace

Commun 365 Negotiation Skills

(520)

Commun 665 Introduction to Mediation

Commun 675 International Mediation

Pol Sci 175 Introduction to International Relations

II. Required Fieldwork (3 credits):

The purpose of this requirement is to enable the student to engage in peace studies through "practical" experience or research. The student should be engaged in the "practice of peace" through community service, conflict identification and education, environmental awareness, governmental politics, or social change. The area of study must be approved by the coordinator of the peace studies certificate and must meet the requirements of the department through which it is being completed. The fieldwork requirement may be fulfilled in one of three ways: an internship, study abroad, or independent study.

III. Elective Courses (9 credits):

Students are encouraged to construct an area of concentration from their elective credits.

Suggested areas of concentration may be geographic and/or thematic, such as:

- World regions and countries
- World religions and practices
- Conflict resolution skills
- International relations
- Sustainable development
- Peace studies/education
- Environmental studies
- Social change/social justice
- Economic development

Following is the list of approved courses. For the specific content and prerequisites of each course, see its listing under the originating department elsewhere in this catalog. Additional courses may be approved with the consent of the Peace Studies and Conflict Resolution Program coordinator.

Africol 218	Conflict and Cooperation in Black-White Relations
Africol 265	Psychological Effects of Racism
Africol 300	Urban Violence
Africol 322	Order and Disorder: The Quest for Social Justice
Anthro 150	Multicultural America
CES 210	Introduction to Conservation and Environmental Science
CES (Bio Sci) 471	Practicum in Natural Resource Management
CES 490	Senior Seminar: Conservation and Environmental Science
Commun 192	First-Year Seminar: "Communication and Conflict" subtitle
Commun 350	Intercultural Communication
Commun 363	Communication in Human Conflict
(263)*	
Commun 365	Negotiation Skills Workshop
(520)	
Commun 450	Cross Cultural Communication
Commun 631	Current Topics in Interpersonal Communication/Conflict Management: "Genocide and Communication" subtitle
Commun 662	Seminar in Communication: "Communication and Civility" subtitle
Commun 665	Introduction to Mediation
Commun 675	Communication in International Mediation and Peacebuilding
CompLit 230	Literature and Society: "Existentialism" and "Children/Youth as War Casualties" subtitles
CompLit 231	Literature and Religion: (subtitle)
CompLit 232	Literature and Politics: "Contemporary Women Writers and the Ethics of Violence," "Gender and the Historical Novel," "Literature and Human Rights," "Women and War in Latin America and the Caribbean" subtitles
CompLit 233	Literature and Film: "Film and War" subtitle
CompLit 365	Literatures and Cultures of the Americas: "Border Narratives" subtitle
CompLit 433	Comparative Mythology
Crj 416	Domestic Violence Research
Crj 420	Violence and the Criminal Justice System
Crj 592	Critical Issues in Criminal Justice: "Restorative Justice" subtitle
Econ 353 (474)	Economic Development
Ed Pol 411	Conflict and Change in Community-Based Organizations
Ed Pol 520	Peace Education
Ed Pol 521	Nonviolence in Education
Ed Pol 522	Abusive Relationships: Community Problems, Community Solutions
Ed Pol 579	Current Topics in Cultural Foundations of Education: "Antiracist Education"

subtitle

- English 150 Multicultural America
- English 192 First-Year Seminar: "Vietnam in American Culture" subtitle
- English 247 Literature and Human Experience: "Literature of the Ecological Vision" and "Whitman and Ginsberg - Liberating American Bards" subtitles
- English 293 Literature and Media: "African American Literature on Film" and "Vietnam in American Culture" subtitles
- Ethnic 255 Migration and Gender: Starbucks, Sex Trafficking, and Nannies
- Ethnic 375 Global Violence, Disease, and Death
- ExcEduc 617 Cooperative Learning: Creative Conflict
- Geog 120 Our Physical Environment
- Geog 125 Introduction to Environmental Geography
- Geog 350 Conservation of Natural Resources
- Global 101 Introduction to Global Studies I: People and Politics
- Global 201 Introduction to Global Studies II: Economics and the Environment
- Global 202 Introduction to Global Studies III: Globalization and Technology
- Global 351 Language, Media, and Social Practice in Global Communications
- Global 361 Environment and Sustainability
- Global 371 Rethinking Global Security
- Global 442 Humanitarianism in Global Perspective
- Global 447 The Global Politics of Human Rights
- Global 451 Access, Security, and Intercultural Contexts in Global Communications
- Global 461 The Politics and Policy of Sustainability
- Global 471 Strategies for Realizing Security in Global Contexts
- Global 499 Ad Hoc: (with appropriate subtitle)
- Global 541 Cross-Cultural Management
- Global 551 Global Communications Capstone: Future Trends
- Global 561 Preparing for Peacebuilding and Social Change
- HCA 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective (also offered as BMS/ComSDis/Kin/OccThpy/TherRec 245)
- Hebr St 238 Topics in Hebrew/Jewish Literature, Art, and Culture: "The Holocaust in Literature and Film"; "The Arab-Israeli Conflict"; "The Holocaust in Words and Images" subtitles
- Hebr St 254 Studies in Hebrew Culture: "The Arab-Israeli Conflict"; "A Home for the Jews"; "Judaism, Christianity, Islam – Three Religions, One God" subtitles
- Hebr St 261 Representing the Holocaust in Words and Images
- Hist 150 Multicultural America
- Hist 200 Historical Roots of Contemporary Issues: "Civil Strife in Northern Ireland" and "The Civil Rights Movement in America" subtitles
- Hist 249 The Second World War in Europe
- Hist 280 Islamic Civilization: The Formative Period, ca. 500-1258
- Hist 281 Islamic Civilization: The Middle Period, ca. 1200-1805
- Hist 282 The Modern Middle East in the Nineteenth and Twentieth Centuries
- Hist 283 Arab-Israeli Relations: The Search for Peace
- Hist 286 The Korean War
- Hist 287 The Vietnam War
- Hist 358 The Jews of Modern Europe: History and Culture
- Hist 363 Germany: Hitler and the Nazi Dictatorship
- Hist 364 The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
- Hist 370 Topics in the History of Religious Thought: "Buddhist Thought" and "Introduction to Buddhist Thought" subtitles
- Hist 385 Political Islam to Zionism: Middle Eastern Intellectual History, 1798-1990
- Hist 434 The United States as a World Power in the Twentieth Century

Hist 440	History of the American Working Classes
Hist 457	Military History of the United States
Hist 594	Methods and Theory in the Historical Study of Religion: "Women, War, and Religion in Early Medieval Europe" subtitle
Hist 600	Seminar in History: "Incarcerated – Japanese Americans and World War II"; "The Cold War as History"; "World Wars and Anti-Socialist Politics" subtitles
Honors 200	Honors Seminar: The Shaping of the Modern Mind: "War Stories – Art and Experience from the Front Lines" subtitle
IntlSt 550	Senior Seminar in International Studies: (with appropriate subtitle)
JAMS 661	Seminar in Media Communication and Society: "War and the Media" subtitle
Jewish 261	Representing the Holocaust in Words and Images
PeaceSt 201*	Introduction to Conflict Resolution and Peace
Philos 204	Introduction to Asian Religions
Philos 244	Ethical Issues in Health Care: (subtitle)
Philos 271	Philosophical Traditions: "Western Great Lakes American Indian Philosophy" subtitle
Philos 275	Introduction to Middle Eastern and Western Religions
Philos 355	Political Philosophy
Philos 475	Special Topics in Indian Religious Thought: "Gandhi and Nonviolence" subtitle
Pol Sci 175*	Introduction to International Relations
Pol Sci 316	International Law
Pol Sci 328	The Arab-Israeli Conflict
Pol Sci 333	Seminar in Comparative Politics: "Collective Violence and the State" subtitle
Pol Sci 337	International Organizations and the United Nations
Pol Sci 338	Seminar in International Politics: (subtitle)
Pol Sci 339	European Integration
Pol Sci 340	Politics of Nuclear Weapons
Pol Sci 359	Problems of American Foreign Policy
Pol Sci 361	History of International Political Thought
Pol Sci 365	Theories and Methods in International Politics
Pol Sci 370	International Conflict
Pol Sci 371	Nationalism and Ethnic Conflict
Pol Sci 419	Constitutional Interpretation
Pol Sci 464	Sex, Gender, and the Law
Psych 611	Current Topics: "Psychology of Conflict, War, and Peace" subtitle
Sociol 150	Multicultural America
Sociol 215	Religion and Society
Sociol 325	Social Change
Sociol 450	Environmental Sociology
Theatre 204	Participatory Theatre
UrbPlan 350	Social Justice, Urban Planning, and the New Multicultural America
Urb Std 360	Perspectives on the Urban Scene: "The Urban Riot" and "Crime and Violence in the City" subtitles
WGS 150	Multicultural America
WGS 201	Introduction to Women's Studies: A Humanities Perspective

* If not selected in Section I.

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Philosophy

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A problem may be called "philosophical" when it has depth and universality, far-reaching theoretical ramifications, human importance, and no easy solution. Philosophical problems constitute the subject matter of philosophy.

Academic courses in philosophy have the value of introducing the crucial problems in a systematic way, exposing students to fruitful methods for attacking them, to models of solid, hard-hitting argumentation, and to a literature ranging from Plato's *Dialogues* to current professional journals. The relevance of philosophy is nowhere better exhibited than in the distinctions ignored, the arguments overlooked, and the errors repeated by persons unfamiliar with that literature.

At UWM, incoming freshmen interested in studying philosophy are advised to begin with the general introductory course, Philos 101, though there are several courses, especially at the 200 level, that are open to students without a background in philosophy. The 300 level includes courses designed to provide more in-depth treatments of traditional philosophical areas. Courses at the 400 level are devoted to the history of philosophy. Courses at the 500 level deal with specific issues and problems.

Course of Study: Major

The philosophy major is intended to meet the needs of four groups of students: (1) those who wish to use philosophy as the organizing core of a liberal education; (2) those who wish to study philosophy in preparation for graduate work in some other field, such as law, government, or theology; (3) those who wish to major jointly in philosophy and one of the social sciences, natural sciences, or humanities; and (4) those who have or may acquire a professional interest in philosophy and who plan to go on to graduate work in the subject.

Students planning to major in philosophy should consult with the department undergraduate program coordinator at the beginning of their junior year or, if transferring from another major, upon deciding to transfer. At that time they will fill out a declaration of major form.

The College requires that students complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. Students also must attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, they must attain a 2.500 GPA on all major credits attempted, including any transfer work.

The following are required:

1. A minimum of 30 credits in philosophy.
2. The following three courses:

Philos 430	History of Ancient Philosophy	3
Philos 432	History of Modern Philosophy	3

(Philos 212, Modern Deductive Logic, or a more advanced course in logic may be substituted for Philos 211 with the permission of the department chair.)

3. At least one course from each of the following groups:

Group A

Philos 341	Modern Ethical Theory	3
Philos 349	Great Moral Philosophers	3
Philos 355	Political Philosophy	3

Group B

Philos 303	Theory of Knowledge	3
Philos 317	Metaphysics	3
Philos 324	Philosophy of Science	3
Philos 351	Philosophy of Mind	3

Group C

Any philosophy course numbered 500 or above and carrying 3 credits (excluding the course you choose to satisfy the capstone requirement; see below).

4. Philosophy electives of the student's choice to reach a total of 30 credits. At least 15 of these 30 credits must be taken at the 300 level or above in residence at UWM.

5. Capstone/research requirement. Choose one of the following two courses:

Philos 681	Seminar in Advanced Topics: (subtitle)
Philos 685	Senior Capstone Research Seminar: (subtitle)

It is expected that the required courses in the history of philosophy (Philos 430 and 432) will be taken as soon as the student decides to major in philosophy (normally during the junior year). Students must fulfill the capstone/research requirement in the senior year. It is recommended strongly that students become proficient in at least one related academic discipline. Each major will be asked to submit a paper for inclusion in a portfolio that is kept in the department. Typically, this will be a paper written for the "Senior Capstone Research Seminar" (Philos 685). It should be stressed that this is not an additional requirement for graduation as a major. Rather, it is part of the department's ongoing effort to evaluate and improve our major program.

HONORS IN THE MAJOR

Prior to the beginning of their senior year, philosophy majors who maintain a 3.000 GPA in all UWM courses

attempted, a 3.500 GPA in courses in the major, and a 3.5 GPA in advanced courses in the major may apply to the undergraduate program coordinator for special honors work in philosophy. Upon successful completion of that work, the students are recommended by the department for graduation with honors in philosophy. The special work normally involves participation in Philos 681 or 685, earning a grade of A- or above.

Course of Study: Minor

Students who plan to major in another discipline but who wish to enhance their studies with a substantial amount of coursework in philosophy may elect a minor in philosophy. The minor requires 21 credits in philosophy, including Philos 211 or 430 or 432. Twelve credits are required at the 300 level or above, 9 of which must be taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. Students wishing to minor in philosophy should consult with the undergraduate program coordinator in order to complete a declaration of minor form and be assigned a departmental advisor.

Courses

[Philosophy \(PHILOS\)](#)

Faculty

Margaret Atherton, Distinguished Prof., PhD

Brandeis University

Miren Boehm, Assoc. Prof., PhD

University of California, Irvine

William Bristow, Assoc. Prof., PhD, Chair

Harvard University

Luca Ferrero, Assoc. Prof., PhD

Harvard University

Bernard L. Gendron, Prof. Emeritus, PhD

Carl G. Hedman, Prof. Emeritus, PhD

Edward Hinchman, Assoc. Prof., PhD

University of Michigan-Ann Arbor

Stan Husi, Asst. Prof., PhD

Rice University

Haig Khatchadourian, Prof. Emeritus, PhD

John L. Koethe, Distinguished Prof. Emeritus, PhD

Stephen Leeds, Distinguished Prof., PhD

Massachusetts Institute of Technology

Michael N. Liston, Assoc. Prof., PhD

University of California, San Diego

Fabrizio G. Mondadori, Prof. Emeritus, PhD

Walter G. Neevel, Jr., Assoc. Prof. Emeritus, PhD

Blain Neufeld, Assoc. Prof., PhD

University of Michigan-Ann Arbor

Robert A. Schwartz, Distinguished Prof., PhD

University of Pennsylvania

Julius O. Sensat, Prof. Emeritus, PhD

Joshua Spencer, Asst. Prof., PhD

University of Rochester

Richard Tierney, Assoc. Prof., PhD

Columbia University

William J. Wainwright, Distinguished Prof. Emeritus, PhD

Raymond L. Weiss, Prof. Emeritus, PhD

Andrea Westlund, Assoc. Prof., PhD

University of Michigan-Ann Arbor

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Physics

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The principles of physics provide the underpinnings for many of the scientific and technological advances of the last several decades. Because of this, physics coursework is taken by students majoring in virtually every scientifically based field, e.g., engineering, nursing, architecture, pre-medicine, biochemistry, chemistry, computer science, geology, mathematics, atmospheric sciences, etc. Students in other fields take less comprehensive physics or astronomy courses in order to attain basic scientific literacy. The operational use of mathematics in the 100- and 200-level courses is indicated by the prerequisite math placement level.

Among the less comprehensive courses is Physics 100, a course for students who feel a need for additional preparation before taking a required physics course. Other topical courses include Astronomy 103, Physics 107, Physics 109, and Physics 133. There also are occasional one-time course offerings of this nature. They will be listed in class schedules and on bulletin boards when they are offered. Physics 110 is designed for students in the health sciences. Physics 120 and 122 are non-calculus introductory physics courses. Optional laboratories for these courses are Physics 121 and 123. Astronomy 185 and Physics 185 are courses for elementary teachers. Students in the College of Engineering and Applied Science take Physics 209 and 210; they also should consider taking Physics 309.

Astronomy 221, Physics 209, 210, 214, 215, and 309 are appropriate for students majoring in the sciences. These courses are recommended strongly for all students who plan to take any courses beyond the general physics level. Physics 120/121, 209/214, and 219 treat similar subject matter but with different degrees of mathematical sophistication. Any combination of these courses carries a maximum of 5 credits towards graduation. Likewise, Physics 122/123, 210/215, and 220 treat similar subject matter but with different degrees of mathematical sophistication. Any combination of these courses carries a maximum of 5 credits toward graduation.

At the advanced undergraduate level, the Department of Physics offers instruction in the classical and modern fields of physics. Experimental research facilities are available in the areas of condensed matter, surface science, biophysics, and optics. Theoretical studies are conducted in relativity and cosmology, high energy physics, biophysics, medical imaging, and condensed matter physics. Joint study with other departments also can be arranged.

Course of Study: Major

Freshmen who enter with scores of 4 or 5 on the Physics Advanced Placement exam given by CEEB are given partial credit for the introductory courses.

Students who have a combined GPA of 2.500 or above in all mathematics and physics courses taken in the first two years will be approved for a major in physics. This requirement will be waived in those cases where students are able to show evidence of unusual circumstances.

The department offers two study options. The standard physics major is for students who seek a general physics degree.

The physics major with astronomy emphasis is for students who wish to pursue their interest in astronomy. While the standard physics major generally is followed by students who plan to go on to graduate school, the major with astronomy emphasis also enables students to pursue graduate work in physics.

Both options require that students take at least 15 credits in advanced-level (numbered 300 and above) courses in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. All students in the College are required to complete a research experience in their majors. Physics majors meet this requirement by successfully completing one of the following upper-level, 3-credit laboratory courses:

Physics 406	Introduction to Infrared Microspectroscopy
Physics 408	Experiments in Linear Electronics
Physics 409	Modern Physics Laboratory
Physics 670	Electron Microscopy Laboratory

or

Physics 391	Undergraduate Research Participation <i>The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee; it must demonstrate clear pedagogical value. Unfocused laboratory internships are not acceptable.</i>
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Students who intend to double-major in physics and engineering may substitute some specific engineering courses for required physics courses. See the list of possible substitutes below, following the requirements for the major with astronomy emphasis.

Standard Physics Major

A minimum of 43 credits in physics, of which 15 must be taken in advanced-level (numbered 300 and above) courses in residence at UWM, are required, including:

For requirement a, Physics 219 and 220 are strongly recommended; however, Physics 209/214 and 210/215 courses may be taken with the consent of the undergraduate advisor.

a. Two semesters of calculus-based introductory physics

Physics 219	Physics I: Calculus-Based, Studio Format	5
Physics 220	Physics II: Calculus-Based, Studio Format	5

Or

Physics 209	Physics I (Calculus Treatment)	4
Physics 214	Lab Physics I (Calculus Treatment)	1
Physics 210	Physics II (Calculus Treatment)	4
Physics 215	Lab Physics II (Calculus Treatment)	1

b. Physics 309	Physics III: Modern Physics	3
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c. Physics 270	Introduction to Computational Physics	3
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Or

Physics 370	Analytical and Numerical Methods in Physics	3
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d. Physics 317	Thermodynamics	3
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e. Physics 325 Optics 4

f. One of the following advanced laboratory courses:

(Note: These courses are NOT offered every semester; check with the undergraduate advisor to plan for completing this requirement.)

Physics 406 Introduction to Infrared Microspectroscopy 3

Physics 408 Experiments in Linear Electronics 3

Physics 409 Modern Physics Laboratory 3

Physics 670 Electron Microscopy Laboratory 3

Or

Physics 391 Undergraduate Research Participation
The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee, and it must demonstrate pedagogical value. Unfocused laboratory internships are not acceptable.

g. Physics 411 Mechanics 4

h. Physics 420 Electricity and Magnetism I 3

i. Physics 422 Electricity and Magnetism II 3

j. Physics 441 Introduction to Quantum Mechanics I 4

k. Physics 442 Introduction to Quantum Mechanics II 3

(Students who major in both physics and engineering are not required to take Physics 442; however, it is recommended strongly that they do so.)

Total: 43 credits

l. No elective courses are required, but students are encouraged to select electives from Physics or Astronomy courses 300 level or above from the following list. Only the courses identified in the list below with the phrase “if not selected above” will be counted in the student's major GPA.

Astron 400 Astronomy I 3

Astron 401 Astronomy II 3

Physics 305 (405) Medical Physics 3

Physics 306 Introduction to Biophysics 3

Physics 351 Condensed Matter Physics 3

Physics 370 Analytical and Numerical Methods in Physics (if not selected above) 3

Physics 391 Undergraduate Research Participation 1-6

Physics 406 Introduction to Infrared Microspectroscopy (if not selected above) 3

Physics 408 Experiments in Linear Electronics (if not selected above) 3

Physics 409 Modern Physics Laboratory (if not selected above) 3

Physics 515 Statistical Mechanics 3

Physics 517 Special Relativity 3

Physics 531 Principles of Quantum Mechanics I 3

Physics 532 Principles of Quantum Mechanics II 3

Physics 541 Elementary Particles 3

Physics 551 Introduction to Solid State Physics I 3

Physics 651	Introduction to Solid State Physics II	3
Physics 670	Electron Microscope Laboratory (if not selected above)	3

Physics Major with Astronomy Emphasis

A minimum of 55 credits in physics and astronomy courses, of which 15 credits must be taken in advanced-level (numbered 300 and above) courses in residence at UWM, are required, including:

For requirement a, Physics 219 and 220 are strongly recommended; however, Physics 209/214 and 210/215 courses may be taken with the consent of the undergraduate advisor.

a. Two semesters of calculus-based introductory physics

Physics 219	Physics I: Calculus-Based, Studio Format	5
Physics 220	Physics II: Calculus-Based, Studio Format	5

Or

Physics 209	Physics I (Calculus Treatment)	4
Physics 214	Lab Physics I (Calculus Treatment)	1
Physics 210	Physics II (Calculus Treatment)	4
Physics 215	Lab Physics II (Calculus Treatment)	1

b. Physics 309 Physics III: Modern Physics 3

c. Physics 270 Introduction to Computational Physics 3

Or

Physics 370 Analytical and Numerical Methods in Physics 3

d. Physics 327 Optics 4

e. Physics 317 Thermodynamics 3

f. One of the following advanced laboratory courses:

(Note: These courses are NOT offered every semester; check with the undergraduate advisor to plan for completing this requirement.)

Physics 406 Introduction to Infrared Microspectroscopy 3

Physics 408 Experiments in Linear Electronics 3

Physics 409 Modern Physics Laboratory 3

Physics 670 Electron Microscopy Laboratory 3

Or

Physics 391 Undergraduate Research Participation 1-6
The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee, and it must demonstrate pedagogical value. Unfocused laboratory internships are not acceptable.

g. Physics 411 Mechanics 4

h. Physics 420 Electricity and Magnetism I 3

i. Physics 422 Electricity and Magnetism II 3

j. Physics 441 Introduction to Quantum Mechanics I 4

k. Physics 442 Introduction to Quantum Mechanics II 3

l. Astron 400	Astrophysics I	3
m. Astron 401	Astrophysics II	3
n. 6 credits of electives from the following:		
Astron 103	^ Survey of Astronomy	3
Or		
Astron 211	Principles of Astronomy	3
Atm Sci 110	The Origin, Composition, and Structure of Planetary Atmospheres	3
Geo Sci 120	Geology of the Planets	3
Physics 391	Undergraduate Research Participation	1-6
Physics 517	Special Relativity	3
Physics 541	Nuclear and Elementary Particle Physics	3

Or another course approved by the undergraduate advisor.

Students are advised strongly to take the following courses as part of their electives:

Chem 102	General Chemistry	5
Chem 104	General Chemistry and Qualitative Analysis	5
Commun 103	Public Speaking	3
English 206	Technical Writing	3

Possible Course Substitutions for Students with Physics and Engineering Double Majors

One of the following courses may be substituted for Physics 270 or 370:

Civ Eng 280	Computer-Based Engineering Analysis	3
CompSci 151	Introduction to Scientific Programming in Fortran	3
CompSci 250	Introductory Computer Programming	3

The following course may be substituted for Physics 317:

MechEng 301	Basic Engineering Thermodynamics	3
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The combination of both Civ Eng 201 Statics, 3 cr, and 202 Dynamics, 3 cr, may substitute for Physics 411.

Students who major in both physics and engineering are not required to take Physics 442; however, it is recommended strongly that they do so.

Course of Study: Minor

A minor in physics requires 18 credits, of which 9 credits must be in courses at the 300 level or above taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. There is latitude in the choice of credits. Students majoring in engineering or computer science should consider optics (Physics 325) and Basics of Condensed Matter (Physics 351).^ Science or math education majors should take thermodynamics (Physics 317), optics (Physics 325), and general astronomy (Astron 400). Math majors will find complementary subject matter in mechanics (Physics 411), electricity and magnetism (Physics 420 and 422), and special relativity (Physics

517). Students are required to consult with the physics advisor when planning their minor programs of study.

For the teaching minor, see the School of Education section of this catalog.

Courses

[**Physics \(PHYSICS\)**](#)

Faculty and Staff

Daniel Agterberg, Prof., PhD

University of Toronto

Donald E. Beck, Prof. Emeritus, PhD

Patrick Brady, Prof., PhD

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Yutze Chow, Prof. Emeritus, PhD

Jean Creighton, Admin. Prog. Mgr., PhD

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Carol Hirschmugl, Prof., PhD

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Moises Levy, Prof. Emeritus, PhD

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Bimal K. Sarma, Prof. Emeritus, PhD

Marius Schmidt, Prof., PhD
Technical University of Munich

Peter Schwander, Assoc. Prof., PhD
Swiss Federal Institute of Technology Zürich (ETHZ)

Xavier Siemens, Assoc. Prof., PhD
Tufts University

Dale R. Snider, Prof. Emeritus, PhD

Richard S. Sorbello, Prof. Emeritus, PhD

Raymond W. Suchy, Assoc. Prof. Emeritus

Shuk Yin Tong, Dist. Prof. Emeritus, PhD

Michael Weinert, Distinguished Prof., PhD
Northwestern University

Alan Wiseman, Assoc. Prof., PhD
Washington University

Robert Wood, Sr. Lect. and Adjunct Assoc. Prof., PhD, Assoc. Chair
Oxford University

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Slavic Languages

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The Slavic Languages program offers coursework in Polish and Russian. Through the study of these languages, students gain exposure to the literature and culture of the eastern European areas in which these languages are spoken. The program offers a major in Russian. In addition, the Slavic languages are an integral part of the Russian and East European Studies Certificate Program.

Study of these languages may meet the foreign language requirement of the College of Letters and Science. Students with previous high school preparation in any of these areas should consult with the program coordinator to determine the appropriate level at which to begin their language studies. Coursework through the fourth-semester level is designed to prepare students in the four basic language skills: listening comprehension, speaking, reading, and writing. The beginning language sequences are as follows:

Polish

Polish 101	First-Semester Polish	4
Polish 102	Second-Semester Polish	4
Polish 201	Third-Semester Polish	3
Polish 202	Fourth-Semester Polish	3

Russian

Russian 101	First-Semester Russian	5
Russian 102	Second-Semester Russian	5
Russian 201	Third-Semester Russian	4
Russian 202	Fourth-Semester Russian	4

Course of Study: Russian Major

The Russian major requires completion of four semesters of college-level Russian (through Russian 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the major GPA. In addition, majors must complete 30 credits as follows:

- Core courses: 18 additional credits in Russian, including 310 and 311;
- Electives: 12 additional credits in Russian and/or in cross-listed and related courses, selected from the two lists below. A maximum of 3 credits from the list of related courses can count toward this requirement.

Majors must complete at least 15 credits in advanced-level courses (300 and above) in residence at UWM; at least 9 of these credits must be in the Russian curricular area. Students must attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, the College requires that students attain a 2.500 GPA on all major credits attempted,

including any transfer work. Major courses taken outside the Russian curricular area count in the major GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive study abroad should contact the program coordinator to discuss the college's residency requirement.

As part of their required credits, all students must complete a research experience as required by the College. Students will satisfy this requirement in the context of one of the following courses:

Russian 391	Russian Literature and Culture in Translation: (subtitle)
Russian 699	Supervised Individual Reading

Cross-listed Courses. The following courses are approved to satisfy the requirements of the Russian major and minor. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list.

English 316	World Cinema: "Russian Cinema" subtitle
Ethnic 250	Selected Topics in Ethnic Studies: "Gender and Ethnicity in and After the USSR" subtitle
Geog 444	Former Soviet Union: Regional Analysis
Geog 445	Former Soviet Union: Topical Analysis
Hist 340	Early Russia Through Ivan the Terrible, Peter the Great, and Catherine the Great
Hist 341	Imperial Russia
Hist 343	Russia Since 1917
Hist 367	Women in Soviet Society: A Historical Survey
IntlSt 550	Senior Seminar in International Studies: "Russia in Transition: Media and Values" subtitle
Pol Sci 310	Politics of the Soviet Union and Its Successor States
Pol Sci 311	Russian Foreign Policy

Related Courses. The following courses are approved to satisfy the requirements of the Russian major. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list. Majors may count a maximum of three credits from the following list toward the major requirements:

Econ 256	Emerging Markets and Comparative Systems
Geog 238	East Europe
Hebr St 103	Introductory Yiddish
Hist 249	The Second World War in Europe
Hist 375	Contemporary European History, 1945 to the Present
Linguis	All advanced-level courses
Polish	All courses
Pol Sci 302	Politics of Eastern Europe

Course of Study: Russian Minor

The Russian minor requires completion of four semesters of college-level Russian (through Russian 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the minor GPA. In addition, minors must complete 18 credits as follows:

- Core courses: 6 credits in advanced Russian language courses (310, 311);
- 6 additional credits in the Russian curricular area (language beyond 202, literature, culture, film);
- Electives: 6 credits in Russian and/or courses selected from the list of cross-listed courses following the Russian major.

At least 9 credits must be completed in advanced-level courses in residence at UWM; at least 6 of these credits must be in the Russian curricular area. Students must attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, the College requires that students attain a 2.500 GPA on all minor credits attempted, including transfer work. Minor courses taken outside the Russian curricular area count in the minor GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive advanced-level coursework at a Russian university should contact the program coordinator to discuss the College's residency requirement.

Courses

[Polish \(POLISH\)](#)

[Russian \(RUSSIAN\)](#)

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Political Science

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The Department of Political Science offers a comprehensive curriculum designed to provide a thorough understanding of politics while establishing a foundation for careers in government, law, education, business, and other fields. Undergraduates benefit from the resources of its nationally recognized faculty and strong graduate programs. In addition to courses on political ideas, behavior, and institutions at the local, state, national, and international levels, the department offers opportunities for students to participate in research projects, internship programs, and a program in law studies.

The political science curriculum is divided into five areas: American politics, comparative politics, international politics, political theory, and political methodology.

Course of Study: Major

Majors are required to complete a minimum of 30 credits in political science, of which at least 15 must be in upper-division courses (numbered 300 or above) taken in residence at UWM. The following courses must be included among those taken for major credit:

1. An introductory course: Pol Sci 103 (Introduction to Political Science) or 104 (Introduction to American Government and Politics);
2. A methodology course: Pol Sci 203 (Introduction to Political Science Research), Pol Sci 390 (Political Data Analysis), or Pol Sci 392 (Survey Research);
3. At least one course beyond the 100 level in each of the following four areas of political science: American politics, comparative politics, international politics, and political theory; and
4. One of the following courses, which satisfy the L&S requirement for a research experience in the major, should be taken in the last year of study: Pol Sci 312, 314, 338, 361, 408, 417, 425, 464, 467, or 500.

Majors must attain a 2.500 GPA in all political science courses, including any transfer work, and a 2.500 GPA in political science courses taken at UWM.

Course of Study: Law Studies Option

Students may emphasize the study of law within the major by completing, in conjunction with or in addition to all of the requirements outlined above, the courses listed below as part of the 30 credits required for the major. Any of Pol Sci

250, 411, 412, 419, 452, 464, or 470 meets the American politics requirement; Pol Sci/Philos 384 (560) qualifies as political theory; and Pol Sci 316 is an international politics course.

Required Courses

Pol Sci 250	Law and Society
Pol Sci 411	Constitutional Law: Government Powers and Federalism
Pol Sci 412	Constitutional Law: Civil Rights and Liberties
Two of the following:	
Pol Sci 316	International Law
Pol Sci 384 (560)	The Philosophy of Law [jointly offered with Philos 384 (560)]
Pol Sci 416	Judicial Process
Pol Sci 417	The Supreme Court
Pol Sci 419	Constitutional Interpretation
Pol Sci 452	Administrative Law
Pol Sci 464	Sex, Gender, and the Law
Pol Sci 471	Problems in Law Studies: (Subtitle)

Declaring a Major in Political Science

Students who wish to declare a political science major may do so in one of two ways:

Declare Your Political Science Major with an Advisor

Just follow these simple steps:

1. Obtain an unofficial transcript from Enrollment Services (MEL 274) or print one from your PAWS account.
2. Fill out the "Declaration of Major" form, which can be found in Bolton 614.
3. Schedule a meeting with one of the political science advisors (see [Undergraduate Advising Hours](#)); email or call to schedule an appointment.
4. Meet with an advisor, determine your course plan, and declare your major.
5. You should also consult with an L&S advisor about general education and college requirements. The Political Science advisors are not trained to help you with those requirements. They can be reached at x4654 in Merrill Hall 142.

Declare Your Political Science Major Online

Students also may declare a Political Science major via email. To do so, you must complete an [Online Declaration of Major Form](#) and email it to psmajor-add@uwm.edu. An undergraduate advisor will consult your transcript and, pending sufficient credits, will file a declaration of major form with the College of Letters and Science. Prior to making this request, it is very important that you consult all of the requirements for the Pol Sci major (see above).

Please allow three to four weeks for processing online declaration requests. We will not send a confirmation email when we have processed your application. Thus, if you do not see a declared Political Science major reflected in your records on PAWS within three to four weeks, please contact an undergraduate Political Science advisor (see [Undergraduate Advising Hours](#)).

Also, if you have any questions regarding coursework for the Political Science major, you will need to visit with one of the Political Science undergraduate advisors during their designated office hours or by appointment. We will not conduct advising appointments via email. You should also consult with an L&S advisor about general education and college requirements. They can be reached at x4654 in Merrill Hall 142. Students who have opted to restrict the release of their directory information at UWM should not utilize the online process for declaring a political science major.

Note: The College of Letters and Science requires that students must declare a major upon completing 15 credits and before completing 75 credits. It is extremely important to declare a major as soon as possible after completing 15 credits, so that a Political Science advisor can help you avoid any surprises affecting graduation. This is the

responsibility of the student, not the department. The Department of Political Science provides several faculty advisors who are available to all students, not just to majors. The advisors will provide students with information about political science courses, career opportunities, the political science major, and other matters of interest and importance. Schedule your appointment with an advisor or submit an online application for declaring your major as soon as you complete those 15 credits!

Course of Study: Minor

Minors are required to complete a minimum of 18 credits in political science, of which at least 9 must be in upper-division courses (numbered 300 or above) taken at UWM. Minors must complete courses in at least two of the following four areas: American politics, comparative politics, international politics, and political theory. Students must attain a 2.500 GPA in all political science courses, including any transfer work, and a 2.500 GPA in all political science courses taken at UWM.

Honors and High Honors in Political Science

Departmental honors are awarded upon graduation to students who achieve a 3.500 GPA overall in all UWM courses attempted, in their political science major courses, and in upper-division political science courses. Students meeting these GPA requirements will be slated automatically for graduating with honors in the major.

Students who meet the GPA requirement and wish to be considered for departmental high honors should request that the faculty member supervising the substantial research paper, either for the capstone or another course, nominate them for high honors. The supervising faculty member will decide if the student should be recommended to the high honors committee, which is composed of three political science faculty members. The committee will determine if the quality of the nominee's paper is sufficient to earn the high honors designation and, if so, will bestow the high honors accordingly. Note that a student interested in receiving high honors must contact a Political Science faculty member to be considered; high honors are not bestowed automatically.

Questions about honors designations can be directed to any of the Political Science faculty advisors.

Courses

[Political Science \(POL SCI\)](#)

Faculty

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Kennan Ferguson, Assoc. Prof., PhD
University of Hawaii

Uk Heo, Distinguished Prof., PhD

Texas A&M University

Thomas M. Holbrook, Prof., PhD

University of Iowa

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Joel Rast, Assoc. Prof., PhD

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Internship Coordinator

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Rice University

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Spanish and Portuguese

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The program of courses in Spanish and Portuguese is designed to encourage a liberal education and to orient students in the study of the Hispanic and Luso-Brazilian experience, as manifested in language, literature, and culture.

Spanish Undergraduate Program

The Spanish undergraduate program consists of courses in language, literature, linguistics, and culture. Courses are offered regularly during the day as well as in the evening in order to meet the scheduling needs of all students.

Students who have never taken Spanish should begin their study of the language with Spanish 103. Those who have taken some Spanish in high school can begin at a more advanced level, depending on the results of the placement test and on how many years of high school Spanish they have had.

It is possible to receive up to 14 retroactive credits of Spanish if, after having been placed in a certain course because of previous work in the language, the student passes with a grade of at least B; in other words, s/he may receive credit for all the courses leading up to the one into which s/he placed if this is the first Spanish course taken at the university level. The courses that generate L&S credits for demonstrated equivalent preparation (retroactive credits) are 104 (4 credits), 203 (8 credits), 204 (11 credits), and 308, 318, 319, or 341 (14 credits).

The basic four-semester sequence of Spanish courses, 103, 104, 203, and 204, is designed to develop students' proficiency in the four basic language skills: reading, writing, speaking, and listening, and to prepare students to do more advanced work in language, literature, and culture.

In Spanish 308 and 318, students continue to develop their language skills through advanced reading and writing and in advanced speaking and listening. For students who have fluency in the language because they speak it at home, the department offers Spanish 319, Advanced Speaking and Listening for Heritage Speakers, which substitutes for Spanish 318. Spanish 319 is designed to develop proficiency in speaking and listening.

More advanced 300-level courses cover introductions to the fields of linguistics, literature, and culture as well as language for special purposes (translation, business, and medicine). Advanced courses at the 400 and 500 levels offer students the opportunity to pursue more in-depth study of these fields, while continuing to perfect their command of Spanish. In addition, 500-level courses help students develop their ability to conduct independent research in a specific area of interest.

Students are encouraged to study abroad through an approved program in order to improve their language proficiency and cultural understanding. Students may be able to fulfill electives or core requirements during this experience, but the

Spanish 388	Health Issues in the Hispanic World	3
Spanish 391	Social and Historical Issues in the Hispanic World	3
Spanish 442	Business and Legal Spanish II	3
Spanish 443	Spanish Phonetics and Phonology	3
Spanish 444	Spanish Syntax and Morphology	3
Spanish 446	Hispanic Sociolinguistics	3
Spanish 461	Topics in Hispanic Culture	3

Students may count toward the major a maximum of 3 credits from the following four courses, which are taught in English:

Spanish 371	Introduction to Latino Literature in English	3
Spanish 373	Topics in Latino Literature in English	3
Portugs 360	Luso-Brazilian Culture	3
Portugs 380	Luso-Brazilian Literature in Translation	3

Honors in the Major

Spanish majors who meet the following requirements may apply to the undergraduate advisor to graduate with Honors in the Major:

1. Maintain at least a 3.500 GPA in all advanced credits that count toward the major;
2. Maintain at least a 3.000 GPA in all graded courses attempted at UWM; and
3. Take at least two 500-level Spanish courses.

Course of Study: Minor in Spanish

The minor in Spanish consists of 18 credits at the 300 level or above, at least 9 of these in residence at UWM. These credits may include a maximum of 3 credits selected from Spanish 371, Spanish 373, Portugs 360, or Portugs 380. With the exception of Portugs 380, no literature-in-translation courses may count toward the minor. Spanish 380 and 595 do not count toward the minor.

The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, a 2.500 GPA on all minor credits attempted, including any transfer work, is required.

Course of Study: Minor in Business Spanish

The minor in Business Spanish requires the completion of 18 credits as indicated below. At least 9 of the 300-level or above credits must be taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work. Students in the Business School must complete the requirements in the Business Students Track. All other students complete the Non-Business Students Track. Students are responsible for completing any prerequisite courses as well.

Business Students Track

Spanish 203	Third-Semester Spanish	3
Spanish 204	Fourth-Semester Spanish	3

Note: Students who test beyond one/both of these courses and do not receive retroactive credits for one/both of these courses must substitute a course or courses from among Spanish 308, 318 or 319 (but not both), 341, 348, 350, 391.

Spanish 308	Advanced Reading and Writing	3
Spanish 318 or 319	Advanced Speaking and Listening	3
Spanish 332	Business and Legal Spanish I	3
Spanish 342 (442)	Business and Legal Spanish II	3
Electives – 6 cr		
Spanish courses numbered 300 and above		

Non-Business Students Track

Bus Adm 330	Organizations	3
Spanish 332	Business and Legal Spanish I	3
Spanish 342 (442)	Business and Legal Spanish II	3
Either of the following two courses:		
Bus Adm 201	Introduction to Financial Accounting	3
Bus Adm 360	Principles of Marketing	3
Electives – 6 cr		

Spanish courses numbered 300 and above

An appropriate internship experience (for example, with a firm doing business in Latin America or Spain) may substitute for one of the required courses in the minor. Such substitutions must be approved by the Department of Spanish and Portuguese in consultation with the Lubar School of Business Administration, which will assist students in finding an internship.

Related Programs

For the teaching major and minor, see the School of Education section of this catalog. Many courses in the Department count toward a major, minor, or certificate in other programs, including Latin American, Caribbean, and U.S. Latin@ Studies (LacusI), Global Studies, and Latino Studies.

Portuguese Undergraduate Program

UW-Milwaukee is one of only two universities (the other is UW-Madison) in the University of Wisconsin System that offer a Portuguese program on a regular basis. The Portuguese program consists of language classes as well as culture and literature classes taught in Portuguese or English, and offers a minor in Portuguese.

The program builds on the four-semester sequence of courses (103, 104, 203, 204) covering beginner and intermediate levels and is designed to make students proficient in the four basic language skills – reading, writing, speaking, and listening – while exposing students to basic elements of Lusophone cultures. Accelerated Portuguese courses (110 and 111) cover beginner and intermediate levels of Portuguese equivalent to the 103-204 sequence. Portugs 225 introduces students to Brazilian culture and society. The 300-level courses continue developing students' language skills and introduce students to the study of Lusophone cultures and literature in courses taught in Portuguese or English. These areas can be pursued in depth in 400-level courses in linguistics, literature, and culture.

The Portuguese program offers a study abroad experience. UWM students have the opportunity to participate in exchange programs in Brazil and Portugal. For more information, please visit the UWM Center for International Education website at <http://uwm.edu/cie/>.

Students taking Portuguese at UWM are eligible for the competitive Foreign Language and Area Studies (FLAS) fellowships coordinated by the UWM Center for Latin American and Caribbean Studies (CLACS) and the Center for International Education (CIE). For more information about these fellowships, please visit the CLACS website at uwm.edu/clacs and the CIE website at uwm.edu/cie/academics/scholarships/.

Course of Study: Minor

The undergraduate minor in Portuguese requires 18 credits of Portuguese taken in courses numbered 203 or above. Nine credits must be taken at the 300 level or above in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Students with no previous Portuguese language experience should enroll in Portugs 103. After consultation with the Portuguese coordinator, a student may enroll in a course higher than 103, if appropriate. Students placed into a course beyond the 103 level who complete their first course with a grade of at least B may receive retroactive credits, to a

maximum of 14 credits, for the courses leading to the one into which they are placed. Courses that generate Credits for Demonstrated Equivalent Preparation (retroactive credits) are 104 (4 credits), 203 (8 credits), 204 (11 credits), and 310 (14 credits).

Courses

[Portuguese \(PORTUGS\)](#)

[Spanish \(SPANISH\)](#)

Faculty and Staff

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Psychology

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Mission

Psychology, as a scientific discipline, aims to describe, understand, influence, and predict behavior. Toward this end, the mission of the Undergraduate Program of Studies in Psychology is to: a) provide familiarity with core areas of knowledge in psychology; b) foster an understanding of the biopsychosocial bases of behavior; c) develop understanding of and proficiency in scientific research methods and statistics; d) encourage appreciation for the applicability of psychological principles to everyday problems; and e) enhance critical thinking and communication skills relevant to many career paths.

The curriculum is designed to build familiarity with many core areas of knowledge, including conditioning and learning, personality, social behavior, psychopathology and therapy, human development, health, stress and coping, gender, race and ethnicity, sensation and perception, language, and individual differences.

Individuals who have majored or minored in psychology at the University of Wisconsin-Milwaukee have found employment in a wide variety of occupations in business, education, or the social services or have gone on to graduate or professional schools.

Course of Study: Major

The Department of Psychology offers a major in psychology leading to either the Bachelor of Arts or Bachelor of Science degree. Except for an advanced natural science credit requirement for the BS, the psychology requirements for the BS and BA degrees are the same (see below); however, students should check the general requirements for the degree (e.g., general education requirements) carefully as they differ for the BA and BS. Students opting for the BS will need to complete at least 30 credits in approved advanced L&S natural science courses, at least 15 of which must be completed in Psychology.

To be accepted as a major in psychology, students must have completed Psych 101 and 15 university credits. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. The undergraduate major consists of 33 or 34 credits in psychology, at least 15 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses (17 cr):

Psych 101	Introduction to Psychology	3
Psych 210	Psychological Statistics	4
Psych 254	Physiological Psychology	3
Psych 325	Research Methods in Psychology	4

One of the following:

Psych 205	Personality	3
Psych 214	Introduction to Conditioning and Learning	3
Psych 230	Social Psychology: Psychological Perspectives	3
Psych 260	Child Psychology	3

The major also requires five upper-level courses, which can be satisfied by either (a) one advanced laboratory course and four Systems and Foundations courses (16 cr), OR (b) two advanced laboratory courses and three Systems and Foundations courses (17 cr). The College requires that students complete a research experience in their major. The Department of Psychology has structured its advanced laboratory courses (Psych 502, 505, 514, 654, 656, 660, 677) to satisfy that requirement. In these laboratory courses, students run multiple experiments, collect and analyze data quantitatively, and write up the results in a standard journal article format, integrating the results with a critical survey of relevant professional literature. The Systems and Foundations courses are non-laboratory, upper-level courses designed to provide in-depth knowledge on specific topics in psychology. Students are welcome to take additional Systems and Foundations courses as electives.

Course of Study: Minor

To be accepted as a minor in psychology, students must have completed Psych 101. The undergraduate minor consists of 18 credits in psychology, at least 9 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses:

Psych 101	Introduction to Psychology	3
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One of the following:

Psych 205	Personality	3
Psych 210	Psychological Statistics	4
Psych 214	Introduction to Conditioning and Learning	3
Psych 230	Social Psychology: Psychological Perspectives	3
Psych 254	Physiological Psychology	3
Psych 260	Child Psychology	3

The minor also requires any four additional psychology courses, at least three of which must be at the 300 level or above. Please note: If you are considering a potential major in Psychology, it is recommended highly that you take Psych 210, Psychological Statistics, and Psych 325, Research Methods, as these are required for the major. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

For the teaching major, see the School of Education section of this catalog.

Honors in the Major

Psychology majors who meet the following criteria are awarded Honors in the Major:

1. A 3.000 cumulative GPA on all credits attempted;
2. A 3.500 GPA on all credits that count toward the major; and
3. A 3.500 GPA on all advanced credits that count toward the major.

Cross-listed Courses

The following courses offered by other academic units may be used to fulfill requirements of the undergraduate major or minor in psychology:

Bio Sci 455	Neurobiology	3-4
Bus Adm 442	Industrial Psychology	3

Courses

[Psychology \(PSYCH\)](#)

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State University of New York at Binghamton

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The Ohio State University

James R. Moyer, Jr., Assoc. Prof., PhD
Northwestern University
Associate Dean, L&S Social Sciences

David C. Osmon, Prof., PhD
University of South Dakota

Richard H. Passman, Prof. Emeritus, PhD

Diane M. Reddy, Prof., PhD

Uniformed Services University of the Health Sciences

Robyn C. Ridley, Assoc. Prof., PhD

University of Missouri-Columbia

Kristin Smith, Lect., PhD

University of Wisconsin-Milwaukee

Pamela Schaefer, Sr. Lect., PhD

University of Wisconsin-Milwaukee

Rodney Swain, Prof., PhD

University of Southern California

Jeffrey Tiger, Asst. Prof., PhD

University of Kansas

Richard M. Warren, Distinguished Prof. Emeritus, PhD

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Sociology

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Sociology examines how the web of relationships in which we live shapes what we do, think, and feel. The sociologist studies how patterns in our personalities, preferences, choices, and life chances emerge in interactions and in our participation in groups, social institutions, and social structures of opportunity and constraint. Since all human behavior is social, the subject matter of sociology ranges widely, from the family to the anonymous crowd, from organized religion to organized crime, from conflicts and inequalities to shared beliefs of our culture. As social scientists, we employ a variety of careful methods of research to generate trustworthy conclusions.

Individuals who have majored or minored in sociology at the University of Wisconsin-Milwaukee have found employment in a wide variety of occupations in business, education, or the social services or have gone on to graduate or professional schools.

Course of Study: Major

Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

The major in sociology requires a minimum of 30 credits including the following:

Sociol 261	Introduction to Statistical Thinking in Sociology
Sociol 361	Research Methods in Sociology (satisfies L&S research requirement)
Sociol 375	History of Sociological Theory
Sociol 376	Modern Sociological Theory

At least 15 credits must be in upper-division (300 level and above) sociology courses taken in residence at UWM. With the approval of the undergraduate advisor, students who have completed an elementary statistics course in another discipline may be exempted from the Sociol 261 requirement.

Majors who began their university undergraduate studies between 1998-99 and summer 2006 may need to complete different requirements. Please contact the Sociology Department for further information.

Students in the Schools of Education and Social Welfare should consult their programs regarding social science requirements.

Sociology courses often are cross-listed with several certificate programs and interdepartmental majors.

Declare Your Sociology Major with an Advisor

Students wishing to declare a Sociology major or minor may do so in one of two ways:

Declare your Sociology Major or Minor In-person

To declare your Sociology major or minor in-person, please

1. Print an unofficial transcript. To do so:
 - [Log in to PAWS](#)
 - Under the yellow Academics header, click in the drop down menu and select Transcript: View Unofficial, then click the yellow arrow button
 - Select the Undergraduate Transcript and default Output Destination Type (email), then click the Submit Transcript Request button
 - A PDF copy will be delivered to your UWM Email Address immediately
2. Pick up an *Information for the Prospective Sociology Major* packet or a *Minor Information* sheet in the Department Office, Bolton Hall, Rm. 714.
3. Meet with one of the Sociology Undergraduate Faculty Advisors (see list below) during their walk-in office hours to sign-up and determine your course plan. If you cannot attend walk-in advising hours, please contact one of the advisors by phone or e-mail to arrange an appointment. Please bring your unofficial transcript with you.

Declare your Sociology Major or Minor On-line

To declare your Sociology major or minor on-line, please

1. Print an unofficial transcript. To do so:
 - [Log in to PAWS](#)
 - Under the yellow Academics header, click in the drop down menu and select Transcript: View Unofficial, then click the yellow arrow button
 - Select the Undergraduate Transcript and default Output Destination Type (email), then click the Submit Transcript Request button
 - A PDF copy will be delivered to your UWM Email Address immediately
2. Complete a [Declaration of Sociology Major form \(pdf\)](#) or [Declaration of Minor form \(pdf\)](#) and e-mail it, along with the copy of your unofficial transcript, to the Sociology Department, sociology@uwm.edu. A faculty member of the Sociology Undergraduate Committee, will review your transcript, and pending sufficient credits, will file a declaration of major or minor form with the College of Letters and Science.

Please allow four weeks for processing in-person or on-line declaration requests. If, four weeks after you met with an in-person faculty advisor or submitted your on-line request, you do not see your Sociology major/minor on your PAWS record, please contact an undergraduate faculty advisor (see below).

Honors in the Major

Sociology majors who have maintained at least a 3.000 GPA overall, a 3.500 GPA in all courses attempted for the major, and a 3.500 in all advanced-level (numbered 300 and above) courses attempted for the major are awarded the distinction "Honors in the Major" when they graduate. An "Honors in the Major" notation will appear on the student's transcript.

Sociology Honor Society

In addition, majors who maintained at least a 3.000 GPA overall and a 3.300 GPA in courses taken for the major are invited to join Alpha Kappa Delta, the International Sociology Honor Society. Sociology faculty members annually select academically talented majors for both the "Distinguished Scholar Award" as well as the "Joan W. Moore Service Scholar Award." Both awards are presented to an accomplished junior or senior in the major each spring at the department's award ceremony.

Course of Study: Minor

Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

The minor in sociology requires 18 credits distributed as follows:

Sociol 261	Introduction to Statistical Thinking in Sociology
Sociol 361	Research Methods in Sociology
Sociol 375	History of Sociological Theory
Any two additional sociology courses at the 300 level or above, totaling at least 6 cr.	
Elective	3 cr Sociol any level

With the approval of the undergraduate advisor, minors may substitute an elementary statistics course from another discipline for the Sociol 261 requirement. Those who have completed a methods course in a related discipline may be exempted from the Sociol 361 requirement, with the approval of the undergraduate advisor. Students who receive exemption from Sociol 361 must take an additional upper-division Sociol course for the minor.

Courses

[Sociology \(SOCIOL\)](#)

Faculty

A. Aneesh, Prof., PhD

Rutgers University

Marcus Britton, Assoc. Prof., PhD

Northwestern University

Celeste Campos-Castillo, Asst. Prof., PhD

University of Iowa

Noelle Chesley, Assoc. Prof., PhD

Cornell University

Cary Gabriel Costello, Assoc. Prof., PhD

University of California, Berkeley

Gordon Gauchat, Asst. Prof., PhD

University of Connecticut

Donald E. Green, Assoc. Prof., PhD, Chair

University of Minnesota

Ann L. Greer, Prof. Emerita, PhD

Jennifer A. Jordan, Prof., PhD

University of California, San Diego

Nancy Mathiowetz, Prof. Emerita, PhD

Joan W. Moore, Prof. Emerita, PhD

Timothy O'Brien, Asst. Prof., PhD

Indiana University

Stacey J. Oliker, Prof. Emerita, PhD

Kent Redding, Assoc. Prof., PhD

University of North Carolina at Chapel Hill

Aki Roberts, Assoc. Prof., PhD

University of New Mexico

John M. Roberts, Jr., Prof., PhD

Cornell University

William Vélez, Prof. Emeritus, PhD

Frank H. Wilson, Prof. Emeritus, PhD

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Urban Studies

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- [Faculty](#)

Joel Rast, *Associate Professor of Political Science, Program Director*

James Harris, *Associate Director*

Bolton Hall 702

Phone: (414) 229-4751

Fax: (414) 229-5942

The urban studies program offers both an undergraduate major and an undergraduate certificate in urban studies. For information on the Urban Studies Certificate, see the L&S Certificate Programs section of this catalog.

Urban Studies Major

The urban studies major provides the opportunity for students to explore scholarship on cities, suburban communities, and metropolitan regions with an interdisciplinary lens. Coursework in the major is drawn from the affiliated areas of architecture, africanology, criminal justice, geography, educational policy and community studies, history, political science, public and nonprofit administration, public health, sociology, and urban planning, in addition to urban studies. Although interdisciplinary, the field of urban studies encompasses a distinct body of knowledge, one that combines both theoretical and applied approaches to understanding urban processes. The major is designed to be flexible in order to allow the student to develop a strong foundation from the core courses and then build a set of elective courses that address particular urban histories and problems from different disciplines, depending on student interest and future goals.

Four required urban studies courses form the foundation of the major: Urb Std 150 Multicultural America, a core course in which students conduct service learning by working in an urban organization or agency; one of two urban studies survey courses; a theory course on urbanism and urbanization; and a capstone course (Urb Std 600) taken in the senior year. Students also take a statistics course, which is a standard requirement for social science majors. In addition, students complete five elective courses selected from urban studies and approved courses in the affiliated areas. Student internships (Urb Std 289 or 489) are encouraged strongly. Students also are encouraged to participate in and present at various urban studies-sponsored events, such as the annual Urban Studies Student Research Forum conference and the Henry W. Maier State of Milwaukee Summit, and to contribute to the *epolis* ejournal (currently, each issue includes one paper from an undergraduate).

Urban Studies prepares students for careers in non-profit organizations, government, business, education, law, and social work. Students who major in Urban Studies are equipped for graduate study in many fields, including the social sciences and the professional fields of urban planning and law.

To declare a major in Urban Studies, students make an appointment with the Urban Studies Associate Director in order to complete the “declaration of major” form.

Course of Study

The Urban Studies major requires a minimum of 30-31 credits, including at least 18 credits in the College of Letters and Science with coursework from at least two L&S departments. No more than 9 credits in a single curricular area outside of urban studies may count toward the major. Sociol 377, which is jointly offered in the Urb Std curricular area, will count as an Urb Std course for this purpose. Students must complete at least 15 credits in upper-division (numbered 300 and above) L&S courses for the major in residence at UWM. In addition, students must attain a minimum GPA of 2.500 in all UWM credits attempted for the major. The College also requires that students attain a 2.500 GPA in all major credits attempted, including any transfer work. The following are required:

Core Course: 3 cr

Urb Std 150 Multicultural America, which includes conducting service learning at an urban organization 3

Survey Course: 3 cr (one of the following):

Urb Std 250 Exploring the Urban Environment 3

Urb Std 360 Perspectives on the Urban Scene (any topic) 3

Statistics: 3-4 cr (one of the following):

Geog 247 Quantitative Analysis in Geography 3

Hist 595 The Quantitative Analysis of Historical Data 3

Pol Sci 390 Political Data Analysis 4

Sociol 261 Introduction to Statistical Thinking in Sociology 3

Or equivalent course approved by the program director.

Theory: 3 cr

Sociol/Urb Std 377 Urbanism and Urbanization 3

Capstone: 3 cr

Urb Std 600 Capstone Seminar in Urban Studies (satisfies L&S research requirement) 3

Electives: 15 cr Selected from the following courses or other appropriate courses approved by the program director. (No more than nine credits from the same department outside of urban studies may apply to the 30- or 31-credit minimum in the major.)

Urb Std All courses

UrbPlan All courses

Africol 125 Economics of Black Communities

Africol 300 Urban Violence

Africol 319 History of Blacks in the American City

Africol 417 Race, Injustice, and Change in America

Arch 190 Special Topic: Buildings, Landscapes, Cultures, Field School

Crm Jst 291 Current Issues in Criminal Justice

Crm Jst 295 Crime and Criminal Justice Policy

Crm Jst 370 Criminal Justice Administration

Crm Jst 372 Criminal Justice Policy and Community

Crm Jst 674 History of Criminal Justice

Ed Pol 111 Organizing for Social Action in Urban Communities

Ed Pol 113 The Milwaukee Community

Ed Pol 114 Community Problems

Ed Pol 203 Communities and Neighborhoods in America

Ed Pol 501 Concepts in Community Organizing: Conflicts and Change

Ed Pol 503 Foundations of Community-Based Organizations

Ed Pol 630 Race and Public Policy in Urban America

Geog 114 Geography of Race

Geog 140 Our Urban Environment: Introduction to Urban Geography

Geog 215 Introduction to Geographic Information Sciences

Geog 440	City Systems and Metropolitan Areas
Geog 441	Geography of Cities and Metropolitan Areas
Geog 443	Cities of the World: Comparative Urban Geography
Geog 464	Environmental Problems
Geog 520	Physical Geography of the City
Geog 540	Globalization and the City
Geog 564	Urban Environmental Change and Social Justice
Geog 625	Intermediate Geographic Information Science
Hist 192	Freshman Seminar: "Living in Ancient Rome" and "The Burbs: History of American Suburbs" subtitles
Hist 404	Topics in American History: "Big City Life Viewed Through HBO's 'The Wire'" and "A Tale of Two Cities: Milwaukee and Los Angeles" subtitles
Hist 436	Immigrant America Since 1880
Hist 440	History of the American Working Classes
Hist 446	African Americans Since the Civil War
Hist 450	Growth of Metropolitan Milwaukee
Hist 460	History of Poverty
Hist 463	History of the American City
PH 319	Introduction to Health Disparities
Pol Sci 213	Urban Government and Politics
Pol Sci 243	Public Administration
Pol Sci 387	Seminar in American Politics: "Municipal Finance" subtitle
Pol Sci 413	Governing Metropolitan Areas
Pol Sci 444	Politics and Bureaucracy
Pol Sci 450	Urban Political Problems
Pol Sci 452	Administrative Law
Pub Adm 243	Public Administration
Pub Adm 331	Comparative Public Administration
Pub Adm 452	Administrative Law
Pub Adm 462	Public Policy Planning
Sociol 193	Freshman Seminar: "College in the City" subtitle
Sociol 224	American Minority Groups
Sociol 235	Social Change in the Global Economy
Sociol 307	Industrial Sociology
Sociol 323	Perspectives on Latino Communities
Sociol 324	Comparative Race Relations
Sociol 325	Social Change
Sociol 330	Economy and Society
Sociol 423	Immigration and Incorporation: (all topics)
Sociol 450	Environmental Sociology
Sociol 472	Population and Society
Sociol 610	Reproduction of Minority Communities

Courses

[Urban Studies \(URB STD\)](#)

Faculty

Jasmine Alinder, Assoc. Prof., PhD, History
University of Michigan

Margo J. Anderson, Distinguished Prof., PhD, History
Rutgers University

Anne Bonds, Asst. Prof., PhD, Geography
University of Washington

Marcus Britton, Assoc. Prof., PhD, Sociology
Northwestern University

Tina L. Freiburger, Assoc. Prof., PhD, Criminal Justice
Indiana University of Pennsylvania

Rina Ghose, Assoc. Prof., PhD, Geography
University of Wisconsin-Milwaukee

Donald E. Green, Assoc. Prof., PhD, Sociology
University of Minnesota

James Harris, Sr. Lect., PhD, Urban Studies
University of Wisconsin-Milwaukee

Ryan Holifield, Assoc. Prof., PhD, Geography
University of Minnesota

Lingqian (Ivy) Hu, Assoc. Prof., PhD, Urban Planning
University of Southern California

Douglas M. Ihrke, Prof., PhD, Public and Nonprofit Administration
Northern Illinois University

Jennifer R. Jordan, Assoc. Prof., PhD, Sociology
University of California, San Diego

Marc V. Levine, Prof., PhD, History
University of Pennsylvania

Jenna Lloyd, Asst. Prof., PhD, Public Health
University of California, Berkeley

Genevieve McBride, Prof. Emerita, PhD

Linda McCarthy, Assoc. Prof., PhD, Geography
University of Minnesota

Daniel McClure, Asst. Prof., PhD, Africology
University of Massachusetts-Amherst

Stacey J. Olikier, Assoc. Prof. Emerita, PhD, Sociology

Joel Rast, Assoc. Prof., PhD, Political Science, Chair

University of Oregon

Lex Renda, Assoc. Prof., PhD, History

University of Virginia

Aki Roberts, Assoc. Prof., PhD, Sociology

University of New Mexico

Joseph A. Rodríguez, Assoc. Prof., PhD, History

University of California, Berkeley

Robert Schneider, Asst. Prof., PhD, Architecture

University of Southern California, Berkeley

Aaron Schutz, Prof., PhD, Educational Policy and Community Studies

University of Michigan, Ann Arbor

Amanda Seligman, Prof., PhD, History

Northwestern University

Arijit Sen, Assoc. Prof., PhD, Architecture

University of California, Berkeley

Paru R. Shah, Assoc. Prof., PhD, Political Science

Rice University

Robert Smith, Assoc. Prof., PhD, History

Bowling Green State University

Kristin Sziarto, Assoc. Prof., PhD, Geography

University of Minnesota

William Vélez, Prof. Emeritus, PhD, Sociology

Frank H. Wilson, Prof. Emeritus, PhD, Sociology

Erin Winkler, Assoc. Prof., PhD, Africology

University of California, Berkeley

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Special Program in the Study of Aging

Admission to this certificate program is suspended pending further curriculum development.

Anne Basting, *Advisor, Associate Professor, Social Welfare; Director, Center on Age and Community*
END 1163, (414) 229-2732, basting@uwm.edu

The Special Program in the Study of Aging is an interdisciplinary undergraduate certificate program that is offered through the College of Letters and Science and is available to all students at UWM. Designed to supplement a broad range of student interests and academic and preprofessional majors, the program consists of 18 credits including:

1. At least 9 credits (three courses) from core curriculum courses that are classified on the basis of content into one of three areas: the humanistic, behavioral, and biological dimensions of aging. Students must select courses from at least two of the three areas. (See the program coordinator for a current list.)
2. Three credits of independent research in aging. Research projects are approved by the coordinator and, with the help of a faculty advisor, are tailored to the particular interests of the student.
3. Up to 6 credits of aging-related courses may be counted toward the 18 required credits. Normally, students select these courses after consulting with their faculty advisor in the program. A maximum of 3 credits of approved independent study over and above the independent research requirement may be counted as part of the aging-related courses.

The student must maintain a 2.500 GPA for the 18 credits that make up the certificate.

For additional information, contact the program advisor.

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College of Letters and Science

American Indian Studies

Michael Wilson *Associate Professor of English, Coordinator*, michael@uwm.edu

The Certificate in American Indian Studies is an interdisciplinary academic program that provides for students a thorough understanding of the Native American experience in the United States. America's origins are intertwined with Native America, making American Indian studies essential to understanding American society and culture today. The certificate in American Indian studies focuses on the indigenous peoples the Europeans encountered when they came to the U.S., how the arrival of Europeans impacted the Native Americans, and how the Euro-Americans and Native Americans transformed each other. Coursework for the certificate is available in many traditional academic disciplines, including anthropology, education, English, history, and sociology. Given that Wisconsin is home to 11 federally recognized tribal communities, a certificate in American Indian Studies will help prepare students of any profession to work with American Indian communities across the state.

The American Indian Studies Certificate is intended to enhance a bachelor's degree. The certificate is available to all students seeking a bachelor's degree from UWM and to students who previously have received a bachelor's degree from UWM or any other accredited college or university.

Program Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits in approved American Indian Studies courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, nine must be taken at the 300 level or above. Twelve of the 18 required credits must be in the College of Letters and Science, with at least 6 of these at the 300 level or above. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis. The following are required:

Core Course

AIS 101	Introduction to American Indian Studies	3
---------	-----------------------------------------	---

Electives

Fifteen additional credits selected from the list of approved courses. Students may petition the AIS Coordinator for approval of appropriate courses not on the approved list.

Approved Courses

AIS 105	Ethnobotany: Plants in Anishinaabe Culture	3
AIS 106	Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy	3
AIS 151	First Semester Anishinaabemowin (Ojibwe)	4
AIS 152	Second Semester Anishinaabemowin (Ojibwe)	4
AIS 203	Western Great Lakes American Indian Community Life of the Past	3
AIS/Anthro 225	The Aztec Empire	3
AIS 251	Third Semester Anishinaabemowin (Ojibwe)	4

AIS 252	Fourth Semester Anishinaabemowin (Ojibwe)	4
AIS/Hist 262	North American Indian History to 1887	3
AIS/Hist 263	North American Indian History Since 1887	3
AIS/English 276	Introduction to American Indian Literature: (subtitle)	3
AIS/Anthro 308	Archaeology of North America	3
AIS/Anthro 310	Archaeology of Middle America	3
AIS/Anthro 311	The World of the Ancient Maya	3
AIS/Anthro 314	American Indian Societies and Cultures	3
AIS/Sociol 320	Social Change in American Indian Society	3
AIS/Sociol 321	Contemporary Issues of the American Indian	3
AIS 360	Ezhi-Kinomaageying: Anishinaabe Curriculum	3
AIS/Anthro/Global 362	System Failure: Globalization and Language Extinction	3
AIS 370	Anishinaabebiiige: Archival to Contemporary Writing	3
AIS/English 372	Survey of American Indian Literature	3
AIS/Hist 473	History of Wisconsin Indians	3
AIS/Hist 474	Topics in North American Indian History: (subtitle)	3
AIS/Hist 475	American Indian History, Law, and Government	3
AIS/English 520	Studies in American Indian Literature: (subtitle)	3
AIS/English 525	American Indian Literature, Culture, and Creative Arts	3
AIS/English 632	Seminar in American Indian Literature: (subtitle)	3
Anthro 213	American Indian Peoples of Wisconsin	3

Independent study courses focusing on the American Indian experience may be accepted with the approval of the Certificate Program Coordinator. If the core course is not offered in the years an undergraduate student is pursuing the certificate, the student can petition the Certificate Program Coordinator to accept another course in its stead. Other courses not on this list but relevant to the study of American Indians may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

Students interested in earning a major in American Indian Studies may do so through the College's Committee Interdisciplinary Major program. Contact the AIS coordinator for further information.

Courses

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Applied Mathematics and Computer Science

The College of Letters and Science cooperates with the College of Engineering and Applied Science to offer a Bachelor of Science in Applied Mathematics and Computer Science (AMCS). The primary objective of this degree is to educate students who excel at problem solving in the technical fields that require skills in both analytical math and computer science. The flexibility built into the AMCS degree allows students to acquire these skills in the context of a program designed around their own interests. The program is administered by an advisory committee composed of faculty members from both the College of Letters and Science and the College of Engineering and Applied Science.

For additional information, see the [Applied Mathematics and Computer Science Degree Program](#) description in the [Inter-School/College Programs](#) section of this catalog.

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College of Letters and Science

Asian Studies

Nan Kim, *Associate Professor, History, Interim Faculty Coordinator*

Christine Wolf, *Advisor, GAR 111, (414) 229-6925, cawolf@uwm.edu*

The Certificate in Asian Studies is open to all students seeking a bachelor's degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject area. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

The certificate can be completed in two ways, one that includes language study and another that does not:

- General Asian Studies Certificate (18 credits)
- Asian Studies Certificate with language focus (30 credits)

Language study, however, greatly deepens the student's knowledge and capacities in Asian studies, and so the distinction is meaningful. Both forms of this certificate are designed for students majoring in any field in the University who wish to complement their majors with an additional concentration in Asian studies. **The Asian Studies Certificate with a language focus is not open to students majoring or minoring in Chinese or Japanese at UWM.**

Students enrolling in the Asian Studies Certificate Program are required to earn a minimum of 18 credits, at least 9 of which must be completed at UWM. Of the 18 credits, at least 12 credits must be taken in courses in the College of Letters and Science, and 6 of those must be at the upper level (numbered 300 and above). Of the required credits, at least 9 must be at the 300 level or above, of which 6 credits must be non-language courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.700 or above in all courses counting toward the certificate. A maximum of 6 credits in a combination of approved independent study and/or relevant Asia-focused courses from other schools and colleges may count toward the requirements of the program. All students are required to complete an exit survey before the certificate is awarded.

To earn either the general Asian Studies Certificate (18 credits) or the Asian Studies Certificate with a language focus (30 credits), the following are required:

One of the following gateway courses (3 cr):

ArtHist 105	Asian Art and Architecture (HU)
Econ 193	First-Year Seminar: "Economics of Asia" (SS) and other appropriate subtitles
Geog 213	Geography of Asia (SS)
Hist 175	East Asian Civilization to 1600 (HU)
Hist 175	East Asian Civilization Since 1600 (HU)
Philos 204	Introduction to Asian Religions

Elective credits from the approved list (15 cr):

- A minimum of 6 credits must be upper-level (numbered 300 or above) non-language courses;
- An additional 9 credits of approved electives, at least 3 of which must be at the 300 level or above.

To earn the certificate with a language focus, in addition to satisfying all of the above requirements, students must complete a minimum of 12 credits in a single Asian language. The Asian Studies certificate with a language focus is open to students in any major or minor, with the exception of students majoring or minoring in Chinese or Japanese at UWM.

Interested students should contact the program advisor as soon as they decide to pursue the Asian Studies certificate. The advisor's function is to help the student design a program of study from among the available courses and to guide the student in completing that program.

The following courses have been approved for the Certificate in Asian Studies:

Anthro 325	Japanese Culture and Society	3
Anthro 326	Peoples and Cultures of South Asia	3
ArtHist 105	Asian Art and Architecture (If not selected above)	3
ArtHist 281	Modern and Contemporary Chinese Art	3
ArtHist 308	Film Styles: "Asian Cinema and Spiritual Practices"; "Meaning in Chinese Art"; and other appropriate subtitles	3
ArtHist 386	Art, Ritual, and Ethnicity of China	3
ArtHist 382	Chinese Art and Architecture	3
ArtHist 383	Japanese Art and Architecture	3
ArtHist 480	Chinese Painting	3
ArtHist 481	Topics in Chinese Art: (subtitle)	3
ArtHist 482	Topics in Non-Western Art: (with appropriate subtitle)	
Chinese 101	First Semester Chinese	5
Chinese 102	Second Semester Chinese	5
Chinese 150	Contemporary Chinese Society and Culture	3
Chinese 200	Chinese Calligraphy	3
Chinese 201	Third Semester Chinese	3
Chinese 202	Fourth Semester Chinese	5
Chinese 301	Fifth Semester Chinese	3
Chinese 302	Sixth Semester Chinese	3
Chinese 320	Contemporary Chinese Societies Through Film	3
Chinese 401	Seventh Semester Chinese	3
Chinese 402	Eighth Semester Chinese	3
Chinese 441	Business Chinese	3
CompLit 230	Literature and Society: "Land Society: Chinese Literature Before the 20th Century" and other appropriate subtitles	3
CompLit 360	Seminar in Literature and Cultural Experience: (with appropriate subtitle)	3
CompLit 362	Transnational Asian Cinemas: (subtitle)	3
CompLit 363	Chinese Literature in the Global Context: (subtitle)	3
Econ 193	First-Year Seminar: "Economics of Asia" subtitle and other appropriate subtitles (if not selected above)	3
Econ 351	Introduction to International Economic Relations	3
Econ 353	Economic Development: (with appropriate emphasis on Asia)	3
English 316	World Cinema: "Hong Kong Cinema" subtitle and other appropriate subtitles	3
English 507	Studies in Literature 1900 to the Present: "Representations of Self in Japanese and Western Literature" and other appropriate subtitles	3
FLL 109	First Semester Lao Literacy	3
FLL 110	Second Semester Lao Literacy	3
FLL 299	Ad Hoc: "Language and Culture of Laos" and other appropriate subtitles	1-6
Geog 213	Geography of Asia (if not selected above)	3
Geog 443	Cities of the World: Comparative Urban Geography (with appropriate emphasis on Asia)	3

Geog 470	Geography of South Asia	3
Hist 175	East Asian Civilization to 1600 (if not selected above)	3
Hist 176	East Asian Civilization Since 1600 (if not selected above)	3
Hist 286	The Korean War	3
Hist 287	The Vietnam War	3
Hist 370	Topics in the History of Religious Thought: “Introduction to Buddhist Thought” subtitle and other appropriate subtitles	3
Hist 372	Topics in global History: “Global History of the Korean War” and other appropriate subtitles	
Hist 376	History of Ancient China: Earliest Times to 220 A.D.	3
Hist 377	Modern China	3
Hist 378	Revolution in China	3
Hist 382	Southeast Asia: The Age of Imperialism and Revolution Since 1800	3
Hist 394	History of Japan to 1600	3
Hist 395	History of Japan Since 1600	3
Hist 398	Honors Seminar: “Dilemmas of Memory and Forgiveness: Exploring the ‘History Problem’ in East Asia” and other appropriate subtitles	3
Hmong 107	First Semester Hmong Literacy	3
Hmong 108	Second Semester Hmong Literacy	3
Hmong 265	Hmong Americans: History, Culture, and Contemporary Life	3
Honors 200	Honors Seminar: The Shaping of the Modern Mind: (with appropriate subtitle)	3H
IntlSt 550	Senior Seminar in International Studies: (with appropriate subtitle)	3
Japan 101	First Semester Japanese	5
Japan 102	Second Semester Japanese	5
Japan 110	Japanese Popular Culture	3
Japan 200	Japanese Culture and Its Effect on Language	3
Japan 201	Third Semester Japanese	5
Japan 202	Fourth Semester Japanese	5
Japan 220	Introduction to Japanese Food Studies	
Japan 301	Fifth Semester Japanese	3
Japan 302	Sixth Semester Japanese	3
Japan 330	Japanese Language and Culture	3
Japan 331	Reading Japanese Short Stories	3
Japan 361	Translating Japanese Media	3
Japan 401	Seventh Semester Japanese	3
Japan 402	Eighth Semester Japanese	3
Japan 416	Introduction to Translation: Japanese to English	3
Japan 441	Business Japanese I	3
Korean 101	First Semester Korean	5
Korean 102	Second Semester Korean	5
Korean 201	Third Semester Korean	5
Korean 202	Fourth Semester Korean	5
Philos 204	Introduction to Asian Religions (if not selected above)	3
Pol Sci 314	Chinese Politics and Foreign Policy	
Pol Sci 341	Politics and Markets in Pacific-Rim Countries: (with appropriate subtitle)	3
Pol Sci 343	Asian International Relations	3
Sociol 325	Social Change: (with appropriate emphasis on Asia)	3

Exit Survey

All students are required to complete an exit survey upon completion of their required coursework. The survey allows certificate students to reflect on their experiences while providing important information to help improve the program.

The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

Please note: The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

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College of Letters and Science

Conservation and Environmental Science

Glen Fredlund, *Associate Professor of Geography, Director*
Mai Phillips, *Sr. Admin. Prog. Spec., Coordinator*

Course of Study: Major

This interdisciplinary major is directed toward students interested in natural resources conservation, environmental assessment, and interpretation of environmental and conservation issues. An overall objective is to provide a multidisciplinary background in these areas and sufficient basic training in biological, chemical, earth, and social sciences to foster an understanding of environmental problems.

As a general guide within the major, students may elect to concentrate their studies in one of four areas:

1. Land Resources
2. Water Resources
3. Environmental Analysis
4. Biological Resources

In addition to these focus areas, students interested in environmental education should plan, in consultation with the Coordinator, a course of study that includes the course sequence in science interpretation, CES 550/551. It is possible to elect either the BA or the BS degree option, depending partly upon the concentration. (See College of Letters and Science section for the general degree requirements.)

Because of the breadth and flexibility of this major, students should consult with the Director or Coordinator early, preferably during the sophomore year, to plan a course of study. It is particularly important to begin the introductory course sequences early since they are prerequisites for advanced courses and for declaring the major. Students wishing to declare the major can obtain the necessary information and materials from the Coordinator or a College of Letters and Science advisor.

Course of Study. A minimum of 54 credits is required and at least 29 credits must be in courses at the 300 level and above.* All students in the major must take the required courses (Parts I, II, III, and IV, totaling 36 credits). The remaining credits (18) must be chosen from among the approved elective courses for the major (See Part III.)

* Advanced (300-level and above) courses outside L&S may be used to satisfy this major requirement. However, students should be aware that College of Letters and Science degree requirements call for 36 advanced credits in L&S courses.

Students must attain a 2.500 GPA on all credits attempted for the major at UWM. In addition, the College requires that students attain a 2.500 GPA on all major credits attempted, including any transfer work. Students must complete at least 15 credits in residence at UWM in upper-division courses (numbered 300 or above) in the major.

In order to be accepted into the CES major, students should be in their sophomore year and have completed CES 210, Bio Sci 150, and either Geo Sci 100 or Geog 120.

In addition to coursework in the major, other skills and background are recommended for this field. Good communication skills are essential; students should take courses in public speaking and technical writing. Computer literacy and knowledge of statistics also are highly desirable. Additionally, introductory courses in economics, ethics,

political science, and sociology are recommended. The Coordinator or a Letters and Science advisor can provide a current list of recommended courses.

Fieldwork. It is recommended that students obtain at least one semester of practical work or internship experience, either as an employee or as a volunteer, with state or federal resource management agencies, consulting firms, conservation or environmental organizations, or with nature centers or local parks. Internships for credit must be arranged the semester prior to participation.

Note: Students intending to continue on to graduate school should take math through at least one semester of calculus and at least one semester of organic chemistry. They also should discuss their specific field of interest with the Director or Coordinator for assistance in selecting appropriate elective courses.

I. REQUIRED INTRODUCTORY CORE COURSES (19

Credits)

Bio Sci 150 Foundations of Biological Sciences I 4

Bio Sci 152 Foundations of Biological Sciences II 4

CES 210 Introduction to Conservation and
Environmental Science 3

Chem 102 General Chemistry 5

or

Chem 105 General Chemistry for Engineering 5

Geo Sci 100 Introduction to the Earth 3

or

Geog 120 Our Physical Environment 3

Geo Sci 102 Principles of Historical Geology 3

or

Geo Sci 150 Introduction to Ocean Sciences 3

Geog 215 Introduction to Geographic Information
Sciences 3

II. MID-LEVEL DISTRIBUTIONAL COURSES (7

Credits)

Bio Sci 310 General Ecology 4

Geog 350 Conservation of Natural Resources 3

III. UPPER-LEVEL CORE COURSES (18 Credits)

18 upper-level approved CES electives with at least three credits taken from each of the following areas: Biological Sciences, Geosciences, and Geography

IV. RESEARCH REQUIREMENT (4 Credits)

CES 471 Principles of Natural Resource Management 4

Total Sections I-IV 54

V. DESCRIPTIONS OF RECOMMENDED COURSES FOR CONCENTRATION AREAS

An additional 14-21 credits are required for completion of the major. Although these credits may be selected from among any listed under the approved electives in Section VI, it is highly recommended that students select courses in order to build expertise in a focus area.

The following are general descriptions of four focus areas in the major. These are meant only to be a general guide, and

specific course selections should be made in consultation with the Director or Coordinator when planning the major.

A. Land Resources

The land resources focus area deals with land conservation and management. Students learn to use spatial database and computer geographic information techniques and how to apply these skills to understand human and natural impacts on the landscape. Graduates often find jobs working with governmental agencies or private companies as cartographers, GIS professionals, resource consultants, or conservation planners and managers.

Some focus courses available include:

- conservation of natural resources
- cartography
- geographic information systems
- physical climatology
- land form geography
- soil science
- environmental economics
- environmental geology

B. Water Resources

Students choosing the water resources focus area study physical and chemical aspects of water as well as the geological and biological processes that influence its distribution, supply, quality, and ecological functions. Numerous governmental agencies and private consulting firms hire graduates to work in the fields of water quality assessment, groundwater monitoring, and lake or stream management.

Some focus courses available include:

- limnology
- organic chemistry
- physical hydrogeology
- chemical hydrogeology
- microbiology
- soil science
- geomorphology
- environmental geology

C. Environmental Analysis

Students who choose the environmental analysis focus area learn how to observe, quantify, measure, and report environmental problems. A strong foundation in the fundamentals of physical and organic chemistry will help students apply analytical skills and find solutions. As environmental chemists or consultants, students often find work in the areas of hazardous waste, air and water quality management, and environmental remediation.

Some focus courses available include:

- organic chemistry
- quantitative analysis
- biochemistry
- microbiology
- chemical hydrogeology
- aquatic microbiology
- physical chemistry
- environmental geology

D. Biological Resources

The biological resources focus area addresses the ecological and organism processes that produce and maintain biodiversity. Courses examine the genetic, physiological, population, and community-level processes that can influence the distribution and abundance of species. Biological resources can prepare students for careers including environmental education, natural resource management, wildlife biology, forestry, and fisheries.

Some focus courses available include:

- animal behavior
- behavioral ecology and sociobiology
- comparative ecophysiology
- biology of algae
- plant systematics and evolution
- Invertebrate zoology
- fish ecology and evolution
- evolution and ecology of birds
- plant ecology
- conservation biology
- marine biology
- genetics

VI. LIST OF APPROVED ELECTIVE COURSES IN THE MAJOR

Anthro 103	Digging Up the Past: Approaches to Archaeology	3
Anthro 355	Globalization, Culture, and Environment	3
Anthro 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3
Anthro 448	Cultural and Human Ecology	3
Atm Sci 100	Survey of Meteorology	3
Atm Sci 240	Introduction to Meteorology	3
Atm Sci 330	Air Pollution Meteorology	3
Bio Sci 289	Internship in Biological Sciences, Lower Division	1-6
Bio Sci 302	Entomology	3
Bio Sci 315	Cell Biology	3
Bio Sci 325	Genetics	3
Bio Sci 351	Invertebrate Function and Evolution	3
Bio Sci 358	Birds of Wisconsin	2
Bio Sci 359	Comparative Ecophysiology	3
Bio Sci 361	Diversity of Fungi, Algae, and Plants	3
Bio Sci 370	Animal Physiology	3
Bio Sci 383	General Microbiology	4
Bio Sci 406	Marine Biology	3
Bio Sci 407	Plant Systematics and Evolution	3
Bio Sci 430	Animal Behavior - Ethology	3
Bio Sci 435	Identification and Systematics of Flowering Plants	3
Bio Sci 458	Community Ecology	3
Bio Sci 465	Biometry	3
Bio Sci 475	Tropical Biology	4
Bio Sci 480	Ecological Genetics	3
Bio Sci 489	Internship in Biological Sciences, Upper	3

	Division	
Bio Sci 500	Plant Physiology	3
Bio Sci 505	Conservation Biology	3
Bio Sci 511	Ichthyology	3
Bio Sci 512	Limnology I	3
Bio Sci 513	Limnology I Laboratory	1
Bio Sci 523	Evolution and Ecology of Birds	3
Bio Sci 525	Ecology and Evolution of Fishes	3
Bio Sci 526	Fish Ecology Laboratory	1
Bio Sci 532	Behavioral Ecology	3
Bio Sci 540	Microbial Diversity and Physiology	4
Bio Sci 553	Marine Algae	3
Bio Sci 554	Marine Algae Laboratory	1
Bio Sci 562	Topics in Field Biology: (subtitle)	1-2
Bio Sci 605	Concepts and Models of Aquatic Ecology	3
Bio Sci 607	Environmental Microbiology	3
Bio Sci 611	Seminar on Recent Advances in Limnology and Oceanography: (subtitle)	2
CES 289	Internship in Environmental Studies, Lower Division	1-6
CES 461	Politics and Policy of Sustainability	3
CES 489	Internship in Environmental Studies, Upper Division	1-6
CES 497	Study Abroad: (subtitle)	1-12
CES 499	Ad Hoc: (subtitle)	3
CES 550	Introduction to Science Interpretation	3
CES 551	Application of Science Interpretation	3
CES 571	Practical Approaches to a Sustainable Future	3
Chem 221	Elementary Quantitative Analysis	4
Chem 341	Introductory Survey of Organic Chemistry	3
Chem 342	Introductory Organic Chemistry Laboratory	2
Chem 343	Organic Chemistry	3
Chem 344	Organic Chemistry Laboratory	2
Chem 345	Organic Chemistry	3
Chem 501	Introduction to Biochemistry	3
Chem 524	Intermediate Analytical Chemistry	3
Chem 560	Biophysical Chemistry	3
Chem 603	Introduction to Biochemistry Laboratory	2
Econ 328	Environmental Economics	3
Econ 525	The Economics of Water	3
Geog 215	Introduction to Geographic Information Science	3
Geog 247	Quantitative Analysis in Geography	3
Geog 304	Human Impact on the Environment	3
Geog 306	Natural Hazards	3
Geog 310	General Climatology	3
Geog 340	Biogeography	3
Geog 350	Conservation of Natural Resources	3
Geog 403	Remote Sensing: Environmental and Land Use Analysis	4
Geog 405	Cartography	4
Geog 411	Physical Climatology	3
Geog 415	Hydrogeography	3
Geog 420	Methods and Principles in Land Form	3

	Geography	
Geog 424	Karst Geomorphology	3
Geog 450	Climates of the Past and Climate Change	3
Geog 455	Applied Climatology	3
Geog 464	Environmental Problems	3
Geog 475	Geography of Soils	3
Geog 515	Watershed Analysis and Modeling	3
Geog 520	Physical Geography of the City	3
Geog 525	Geographic Information Science	4
Geog 547	Spatial Analysis	3
Geog 564	Urban Environmental Change and Social Justice	3
Geog 625	Intermediate Geographic Information Systems	4
Geog 653	Soils of Wisconsin Field Laboratory	2
Geo Sci 301	Principles of Mineralogy	3
Geo Sci 400	Water Quality	3
Geo Sci 409	Process Geomorphology	3
Geo Sci 443	Glacial and Pleistocene Geology	3
Geo Sci 463	Physical Hydrogeology	3
Geo Sci 464	Chemical Hydrogeology	3
Geo Sci 465	Advanced Environmental Geology	3
Geo Sci 466	Advanced Environmental Geology Laboratory	1
Geo Sci 550	Soils, Landscape, and Environment	3
Geo Sci 562	Environmental Surface Hydrology	3
Geo Sci 563	Field Methods in Hydrogeology	3
Geo Sci 697	Seminar in Geological Sciences	1-3
Hist 432	North American Environmental History	3
JAMS 503 (JMC 503)	Environment and the Media	3
MthStat 215	Elementary Statistical Analysis	3
Sociol 450	Environmental Sociology	3

Approved CES Course Electives Outside of the College of Letters and Science:

(Although the following courses may count as credits toward the CES major requirements, they do not count to satisfy the advanced L&S credits requirement for the degree. Consult the Coordinator before enrolling in any of these courses.)

Arch 340	Green Architecture	3
Civ Eng 492	Environmental Impact Assessment	3
FrshWtr 502	Aquatic Ecosystems Dynamic	3
FrshWtr 504	Quantitative Freshwater Analysis	3
PH 375	Topics in Public Health for Undergrads: Environmental Sustainability	3
UrbPlan 591	Introduction to Urban Geographical Information Systems (GIS)	3

Other Potential Courses:

Because of the interdisciplinary nature of the Conservation and Environmental Science Program, students are encouraged to work with the Coordinator to identify classes that will enable them best to gain the knowledge to achieve their goals. CES students can petition the Program to accept many classes beyond those listed above, if they are appropriate for the major and the individual student's program of study. For example, the following courses may apply:

Arch 390	Special Topics	1-3
Anthro 699	Independent Work	1-3
Bio Sci 497	Study Abroad: (subtitle)	1-12
Bio Sci 599	Special Topics in Biological Sciences: (subtitle)	1-3
Bio Sci 699	Independent Study	1-3
FrshWtr 690	Undergraduate Seminar in Freshwater Science	1-3
Geog 698	GIS/Cartography Internship	1-6
Geog 699	Independent Work	1-3
Geo Sci 699	Advanced Independent Reading	1-3

Course of Study: Minor

The Conservation and Environmental Science minor requires completion of a minimum of 25 credits distributed among CES courses and approved electives, with at least 12 credits in upper-level (numbered 300 and above) courses. Students must complete at least 9 upper-level credits for the minor in residence at UWM and must attain a 2.500 GPA on all UWM credits attempted for the minor. In addition, the College requires that students attain a 2.500 GPA on all minor credits attempted, including transfer work.

I. Introductory Core Requirements

CES 210	Introduction to Conservation and Environmental Science	3
An introductory course in earth sciences from the following (3 cr):		
Geo Sci 100	Introduction to the Earth	3
Geog 120	Our Physical Environment	3
An introductory course in chemistry selected from the following (4-5 cr):		
Chem 100	Chemical Science	4
Chem 102	General Chemistry	5
Chem 105	General Chemistry for Engineering	5
An introductory course in biology selected from the following (3-4 cr):		
Bio Sci 102	Elements of Biology	3
Bio Sci 150	Foundation of Biological Sciences I	4

Note: Students pursuing BS degrees and those interested in taking upper-level natural science classes such as Bio Sci 310 (General Ecology) should take Chem 102 and Bio Sci 150 as part of their introductory core requirements.

II. Upper-Level Requirements

a. One of the following (3 cr):

CES 471	Practicum in Natural Resources Management	4
Geog 350	Conservation of Natural Resources	3

b. At least 9 upper-level (numbered 300 or above) credits selected from the list of approved elective courses for the CES major. At least 6 of these must be taken outside the student's major program and at least 3 must be from the natural sciences.

Courses

[Conservation and Environmental Sciences](#)

FACULTY

Glen Fredlund, Assoc. Prof., PhD, Geography, Director
University of Kansas

Neal T. O'Reilly, Lect., PhD
Marquette University

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College of Letters & Science

Organizational Administration

Organizational Administration (OA), a committee interdisciplinary major, is designed to develop skills in the research and analysis of problems, creative thinking, and oral and written communication. A Bachelor of Arts degree with a major in Organizational Administration provides students with the educational background necessary to succeed in a broad spectrum of professions and is an excellent foundation for the pursuit of several advanced degree programs. For example, completion of the Bachelor of Arts degree with a major in Organizational Administration and the General Business minor (plus two additional courses) satisfies all of the requirements for admission without deficiencies to UWM's Master's in Business Administration (MBA) program.

The Organizational Administration major may be completed as an on-campus program and also is available off-campus through a collaborative bachelor's degree program (UWM College Connection) offered in partnership with several two-year campuses. Most of the OA major courses are available online. Students who are interested in completing the OA major at the UW-Milwaukee campus should contact an on-campus academic advisor in the College of Letters and Science. Students who wish to complete their UWM baccalaureate degree on-site at a participating two-year campus should contact the UWM advisor assigned to that campus. Check website uwm.edu/letters-science/advising/student-advising for current advisor contact information.

Course of Study

In addition to the major requirements listed below, students must complete all requirements of the Bachelor of Arts degree in the College of Letters and Science. The major requires a total of 48 credits in the College of Letters and Science, including 24 credits in upper-division (300 level and above) courses. Students are required to attain a 2.500 GPA in all UWM credits attempted for the major. In addition, the College requires that students attain a 2.500 GPA in all major credits attempted, including transfer work. The following courses are required:

Commun 101	Introduction to Interpersonal Communication	3
Commun 103	Public Speaking	3
Commun 105	Business and Professional Communication	3
Commun 310	Communication in Organizations	3
Econ 103	Principles of Microeconomics	3
Econ 104	Principles of Macroeconomics	3
Econ 210	Economic Statistics	3
Econ 415	Economics of Employment and Labor Relations	3
<i>One of the following two Communication courses:</i>		
Commun 300	Interviews and Interviewing	3
Commun 323	Communication in Groups and Teams	3
<i>One of the following three Economics courses:</i>		
Econ 325 (330)	Money and Banking	3
Econ 351 (396)	Introduction to International Economic Relations	3
Econ 448 (478)	Economics of Human Resources	3
<i>One of the following two English courses:</i>		
English 205	Business Writing	3
English 206	Technical Writing	3
<i>One of the following two English courses:</i>		
English 425	Advanced Business Writing	3
English 430	Advanced Writing Workshop	3
<i>One of the following two Sociology courses:</i>		

Sociol 101	Introduction to Sociology	3
Sociol 104	Introduction to Social Psychology	3
<i>One of the following six Sociology courses:</i>		
Sociol 307	Industrial Sociology	3
Sociol 327	Social Organization of Technology	3
Sociol 330	Economy and Society	3
Sociol 333	Social Class in Industrial Society	3
Sociol 338	Small Groups	3
Sociol 443	Organizations, Occupations, and Professions	3
<i>One of the following three courses (satisfies L&S research requirement):</i>		
Commun 370	Quantitative Research in Communication	3
Psych 325	Research Methods in Psychology	4
Sociol 361	Research Methods in Sociology	5

Program Coordinating Committee:

Professor Kathryn Dindia, Communication, Chair; Professor Nancy Mathiowetz, Sociology; Professor Mohsen Bahmani-Oskoe, Economics; Professor Rachel Spilka, English; and Associate Dean Tom O’Bryan, L&S (*ex officio*).

Web Home Pages:

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College of Letters and Science

Business of Media and Film Studies

Gilberto Blasini, Associate Professor of English and Film Studies Director, Coordinator
CRT 417, (414) 229-5912, gblasini@uwm.edu

The Certificate Program in Business of Media and Film Studies (BMFS) prepares students to be successful in their post-college careers by uniting the study of Business with the study of a popular, accessible, and pertinent area within the Humanities, Film Studies. Business students will have more sustained study in humanistic inquiry, both of their own field and of the diverse world that the Humanities investigates. Letters and Science students will have access to professional school curricula to help them be better equipped to enter a workforce that demands flexibility and a diversity of knowledge and experience.

The certificate in BMFS includes coursework engaging the financial and industry practices and structures in film and television. It is an interdisciplinary academic program consisting of an introductory course in Film or Television Studies, introductory courses in Business Administration (accounting, management, and marketing), an intermediate level Film Studies course focused on history and representational analysis, and a set of electives from Business Administration and Film Studies.

Eligibility

The program is open to all students seeking a bachelor's degree from UWM, to students who previously earned a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject.

Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.50, a minimum of 18 credits in approved BMFS courses as indicated below, 15 of which must be earned in residence at UWM. Of these 15 residence credits, 9 must be taken at the 300 level or above. Nine credits must be taken in the College of Letters and Science. Nine credits must be taken in the Lubar School of Business. Courses for the certificate may not be taken on a credit/no credit basis.

I. Required Courses: 12-13 credits

Students must complete 6-7 credits in the following Business Administration courses:

Bus Adm 201	Introduction to Financial Accounting	4
or		
Bus Adm 230	Introduction to Information Technology Management	3
Bus Adm 360	Principles of Marketing	3

Students must complete 6 credits in the following English/Film Studies courses:

FilmStd 212	Intermediate Topics in Film Studies: Business on Film	3
English/FilmStd 290	Introduction to Film Studies	3
or		
English/FilmStd 291	Introduction to TV Studies	3

II. Electives: 6 credits

Students must select one Bus Adm course and one English/Filmstd course from the following list of electives:

Bus Adm 330	Organizations	3
Bus Adm 397	Marketing Internship	3
Bus Adm 461	Consumer Behavior	3
Bus Adm 465	International Marketing	3
Bus Adm 467	Marketing Seminar: (subtitle)	3
English/FilmStd 312	Advanced Topics in Film Studies: "Cinema and Digital Culture" subtitle	3
English/FilmStd 380	Media and Culture: (subtitle)	3
English/FilmStd 391	Television Theory and Criticism	3
English/FilmStd 393	Entertainment Industries: (subtitle)	3
English/FilmStd 394	Seminar in Mass Culture: (subtitle)	3

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee (BMFSAC). Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

Awarding the Certificate

Students currently involved in baccalaureate studies at UWM who successfully complete the requirements of the certificate program will be awarded the certificate at the time of graduation. Other students will receive the certificate upon completion of the program requirements.

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Business and Technical Communications

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Many new employees find that their jobs in IT, business analysis, finance, accounting, and other common corporate functions involve far more communication and, in particular, writing than they anticipated. This Business and Technical Communications Certificate combines an innovative approach with practical skills in writing, research, communication, and technology, enabling students to accelerate their careers by developing exceptionally strong writing and communication skills for working in a broad range of contexts.

The Certificate, then, offers specialized training to employees and students who do not plan to be communication specialists, but whose jobs and job aspirations require significant communication skills. The structure and content of the certificate draw from faculty members' workplace and consulting experiences together with their knowledge of the needs of industry professionals. The certificate is constructed so that students who complete it will be well-prepared for fundamental and advanced communication tasks in their current and future workplaces. To that end, the certificate coursework covers the following topics:

- Introduction to Business and Technical Communications
- Advanced Business and Technical Communications
- Strategic Writing for Organizations
- Information Design
- Technical Communications and Organizational Leadership
- Project Management

Program Eligibility

Students who wish to enroll in the Certificate must be admitted to UWM and will have to meet the basic prerequisites of the courses that are equivalent to each given competency set. For English 206, that will mean having passed or tested out of English 102. All other courses in the Certificate require English 206 as a prerequisite.

Program Requirements

To obtain the certificate, students first must complete English 206, after which they may study the additional competency sets in any order. Completing the Certificate means having gained credit in all six courses, with a minimum grade point average of 2.500. Students also must meet College of Letters and Science residency requirements, which means that at least nine of their Certificate upper-level (numbered 300 and above) credits must be earned at UWM.

- English 206: Technical Writing
- English 428: Strategic Writing for Organizations
- English 429: Technical Communications and Organizational Leadership
- English 435: Advanced Professional Writing
- English 437: Project Management
- English 439: Information Design

Awarding the Certificate

Students concurrently completing a bachelor's degree receive the Certificate upon completion of their degree requirements; post-baccalaureate special students and non-degree students will be awarded the Certificate upon successful completion of all program requirements.

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Cultures and Communities

Merrill Hall 144, (414) 229-5960

uwm.edu/cultures-communities

Robert Smith, *Associate Professor, Department of History, Director*, (414) 229-6327, smithrs@uwm.edu

The College of Letters and Science cosponsors the university-wide Cultures and Communities (CC) Certificate Program, which offers students an opportunity to complete their University General Education Requirements through courses focusing on U.S. multicultural studies, global and international perspectives, and the community and cultural contexts of art, science, health, and technology. Students must complete at least 3 credits in each of the areas below, including one course with a service learning component. All students are required to complete an exit survey before the certificate is awarded.

The following list of courses approved for the CC certificate indicates which requirement of the certificate is fulfilled by each course and how each course counts toward the University General Education Requirements. L&S students who wish to have their CC courses count toward their Letters and Science breadth requirements must select L&S courses. A single course may satisfy only one area. For the most up-to-date list, contact the Cultures and Communities Program office.

Area I. Cultures and Communities Core Course

Anthro 150 Multicultural America, 3 cr (SS/CD)

Art 150 Multicultural America, 3 cr (A/CD)

English 150 Multicultural America, 3 cr (HU/CD)

Film 150 Multicultural America, 3 cr (A/CD)

Hist 150 Multicultural America, 3 cr (HU/CD)

Sociol 150 Multicultural America, 3 cr (SS/CD)

Pol Sci 150 Multicultural America: Minority Voting Rights and Representation, 3 cr (CD)

UrbPlan 350 Social Justice, Urban Planning, and the New Multicultural America, 3 cr (CD)

Urb Std 150 Multicultural America, 3 cr (SS/CD)

WGS 150 Multicultural America, 3 cr. (HU/CD)

Area II. Cultures and Communities of the United States

Africology

100 Black Reality: Survey of African-American Society (HU/CD)

102 Survey of African-American Literature (HU/CD)

111 Introduction to African-American History to 1865 (HU/CD)

112 Introduction to African-American History, 1865-Present (HU/CD)

125 Economics of the Black Community (SS/CD)

192 First-Year Seminar (HU):

- *Topic:* African American Life Stories

193 First-Year Seminar (SS):

- *Topic:* Race in Popular Culture

205 The Poetry of African, African-American, and Caribbean Writers (HU/CD) (if not selected in Area III)

210 The African-American Novel (HU/CD)

215 Introduction to Black Social and Cultural Traditions (SS)

228 Introduction to Black Political Economy (SS)

250 Black Women and White Women in the Contemporary United States (SS)

265 Psychological Effects of Racism (SS/CD)

314 The School in African American Life (HU/CD)

American Indian Studies

101 Introduction to American Indian Studies (SS/CD)

105 Great Lakes American Indian Ethnobotany (CD)

106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)

151 First Semester Anishinaabemowin (CD)

152 Second Semester Anishinaabemowin (CD)

192 First-Year Seminar: (subtitle) (HU)

193 First-Year Seminar: (subtitle) (SS)

203 Western Great Lakes American Indian Community Life of the Past (SS/CD)

251 Third Semester Anishinaabemowin (CD)

262 North American Indian History to 1887 (SS/CD) (jointly offered with Hist)

263 North American Indian History Since 1887 (SS/CD) (jointly offered with Hist)

276 Introduction to American Indian Literature: (subtitle) (HU/CD) (jointly offered with English)

320 Social Change in American Indian Societies (SS/CD) (jointly offered with Sociol)

321 Contemporary Issues of the American Indian (SS/CD) (jointly offered with Sociol)

372 Survey of American Indian Literature (HU/CD) (jointly offered with English)

473 History of Wisconsin Indians (CD) (jointly offered with Hist)

474 Topics in North American Indian History: (subtitle) (CD) (jointly offered with Hist)

475 American Indian History, law, and Government (CD) (jointly offered with Hist)

520 Studies in American Indian Literature: (subtitle) (&) (jointly offered with English)

Anthropology

150 Multicultural America (SS/CD) (if not selected above)

193 First-Year Seminar (SS)

- *Topic*: Museums: Gateways to Modern Life
- *Topic*: Oral Traditions
- *Topic*: Museums for Educators

213 American Indian Peoples of Wisconsin (SS/CD)

Arabic

164 Arabs and Islam in America (HU)

Art Ed

130 Art and Visual Learning in Elementary Education (A/CD)

Communication

350 Intercultural Communication (SS/CD)

Economics

248 Economics of Discrimination (SS/CD)

Educational Policy and Community Studies

113 The Milwaukee Community (SS)

212 Educational Issues in Spanish-Speaking Communities (HU/CD)

460 The Chicano Experience (HU/CD)

560 Education and Hispanics (SS/CD)

621 History of Native Education and Policy Development (CD)

625 Race Relations in Education (CD)

English

150 Multicultural America (HU/CD) (if not selected above)

192 First-Year Seminar (HU):

- *Topic:* African American Folklore in Literature
- *Topic:* Hmong American Life Stories (HU/CD)
- *Topic:* Southeast Asian American Literature and Life
- *Topic:* Images of American Indians (HU/CD)
- *Topic:* Images of American Indians in Art, Film, and Literature
- *Topic:* Asian American Life Stories
- *Topic:* Asian American Literature (HU/CD)
- *Topic:* Representations of the American Dream
- *Topic:* Multicultural America (no credit for students with credit in English 150)
- *Topic:* Multicultural Milwaukee (HU/CD)

243 Introduction to Literature by Women (HU)

- *Topic:* Fiction by Women of Color
- *Topic:* Women, Race, and Class

248 Literature and Contemporary Life (HU)

- *Topic:* Introduction to LGBT Studies
- *Topic:* Growing up Gay
- *Topic:* Katrina in Context
- *Topic:* Queer Theory and the Novel

263 Introduction to the Novel (HU)

- *Topic:* Queer Modernism

276 Introduction to American Indian Literature: (subtitle) (HU/CD) (jointly offered with AIS)

277 Introduction to Ethnic Minority Literature: (subtitle) (HU/CD)

279 Introduction to Latino/a Literature: (subtitle) (HU/CD) (jointly offered with Latino)

280 Introduction to Asian American Literature: (subtitle) (HU/CD)

281 Introduction to African American Literature: (subtitle) (HU/CD)

372 Survey of American Indian Literature (HU/CD) (jointly offered with AIS)

373 Survey of Ethnic Minority Literature (HU/CD)

- *Topic:* Z. N. Hurston, A. Walker, T. Morrison, G. Naylor

374 Survey of U.S. Latino/a Literature (CD) (jointly offered with Latino)

375 Survey of Asian American Literature (CD)

376 Survey of African American Literature to 1930 (CD)

377 Survey of African American Literature, 1930 to the Present (CD)

463 Writers in African American Literature: (subtitle) (CD)

517 Studies in African American Literature: (subtitle) (CD)

520 Studies in American Indian Literature: (subtitle) (CD) (jointly offered with AIS)

521 Studies in Ethnic Minority Literature: (subtitle) (CD)

523 Studies in U.S. Latino/a Literature: (subtitle) (CD) (jointly offered with Latino)

524 Studies in Asian-American Literature: (subtitle) (CD)

685 Honors Seminar (HU)

- *Topic*: Chinese American Women Writers (HU/CD)
- *Topic*: Asian American Women Writers (HU/CD)
- *Topic*: Spirituality and Identity in Modern America (HU)
- *Topic*: African Fiction

Ethnic Studies

101 The Making of American Cultures: Africans, Europeans, and Indian Nations (HU/CD)

102 Transnational Migrations: Asian-, Arab-, Euro-American, and Latino Identity (HU/CD)

200 Racial Minorities in the United States (SS/CD)

250 Selected Topics in Ethnic Studies (SS)

- *Topic*: Blacks, Jews, and Black Jews

265 Hmong Americans: History, Culture, and Contemporary Life (SS/CD) (jointly offered with Hmong)

275 Queer Migrations (HU/CD) (jointly offered with LGBT)

325 Gender, Race, and Ethnicity in Milwaukee: (subtitle) (HU/CD)

Exceptional Education

330 Deaf History (SS)

352 American Deaf Culture (SS)

Film Studies

212 Intermediate Topics in Film Studies (HU)

- *Topic*: African American Cinema
- *Topic*: LGBT-TV: Television and Sexuality

Geography

114 Geography of Race in the United States (SS/CD)

193 First-Year Seminar (SS)

- *Topic*: Exploring India: Societies, Cultures, Environments

Hebrew Studies

254 Studies in Hebrew Culture (HU)

- *Topic:* The Jewish-American Experience
- *Topic:* Jewish Identity in Contemporary America (HU)

282 Jewish Identity in Contemporary America (HU)

History

150 Multicultural America (HU/CD) (if not selected above)

200 Historical Roots of Contemporary Issues: (SS)

- *Topic:* The Civil Rights Movement in America (SS/CD)
- *Topic:* The Civil Rights Movement in Milwaukee (SS/CD)
- *Topic:* U.S.-Mexico Borderlands

229 History of Race, Science, and Medicine in the United States (HU/CD) (if not selected in Area V)

243 History of Women in American Society (HU)

262 North American Indian History to 1887 (SS/CD) (jointly offered with AIS)

263 North American Indian History Since 1887 (SS/CD) (jointly offered with AIS)

267 The History of Latinos in the United States (HU/CD) (jointly offered with Latino)

269 Asian Americans in Historical Perspective (HU/CD)

270 Topics in American History:

- *Topic:* Mixed Race Identity in American Culture (HU/CD)

271 The 1960s in the United States: A Cultural History (HU)

398 Honors Seminar:

- *Topic:* American Mixed Race

436 Immigrant America Since 1880 (HU/CD)

445 African Americans from Slavery to Freedom (CD)

446 African Americans Since the Civil War (CD)

473 History of Wisconsin Indians (HU/CD) (jointly offered with AIS)

474 Topics in North American Indian History: (subtitle) (CD) (jointly offered with AIS)

475 American Indian History, Law, and Government (CD) (jointly offered with AIS)

Hmong

265 Hmong Americans: History, Culture, and Contemporary Life (SS/CD) (jointly offered with Ethnic)

Honors

200 Honors Seminar: The Shaping of the Modern Mind:

- *Topic*: Americans in the Making: Immigrant Life in the Late 20th Century (HU/OWC-B)
- *Topic*: Beyond the Border: Making Mexican America

350 Honors Seminar in the Humanities (HU)

- *Topic*: Civil Rights and the Freedom Struggle

Italian

242 Topics in Italian American Studies: (subtitle) (HU)

Jewish Studies

101 Jewish Culture in America: History, Literature, Film (HU)

210 Jewish and Ethnic Narratives and Identities in the Media (HU)

282 Jewish Identity in Contemporary America (HU)

Journalism, Advertising, and Media Studies

111 Gender and the Media (HU)

210 Jewish and Ethnic Narratives and Identities in the Media (HU)

Latin American, Caribbean, and U.S. Latin@ Studies

200 Special Topics in Latin American, Caribbean, and U.S. Latin@ Studies:

- *Topic*: Chican@/Latin@ Art and Culture: Politics and Resistance

201 Latin American, Caribbean, and U.S. Latin@ Arts and Culture (HU)

- *Topic*: Chican@/Latin@ Art and Culture: Politics and Resistance

Latino Studies

101 Introduction to Latino Studies (SS/CD)

267 The History of Latinos in the United States (HU/CD) (jointly offered with Hist)

279 Introduction to U.S. Latino/a Literature: (subtitle) (HU/CD) (jointly offered with English)

374 Survey of U.S. Latino/a Literature (CD) (jointly offered with English)

523 Studies in U.S. Latino/a Literature: (subtitle) (CD) (jointly offered with English)

L&S Natural Science

295 Seminar in the Natural Sciences (NS) (if not selected in Area V)

- *Topic*: Green Science and Urban Space

Lesbian, Gay, Bisexual, and Transgender Studies

200 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (HU)

275 Queer Migrations (HU/CD) (jointly offered with Ethnic)

Political Science

150 Multicultural America: Minority Voting Rights and Representation (CD) (if not selected above)

215 Ethnicity, Religion, and Race in American Politics (SS/CD)

Psychology

230 Social Psychology: Psychological Perspectives (SS)

319 Gay and Lesbian Psychology (SS)

320 Psychology of Women

Religious Studies

106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)

350 Advanced Topics in Religious Studies:

- *Topic*: Religion in Daily Life – Food, Drink, and Clothing

Social Work

300 Aged to Perfection: Introduction to the Study of Aging (OWCB/SS)

665 Cultural Diversity and Social Work (SS/CD)

Sociology

150 Multicultural America (SS/CD) (if not selected above)

193 First-Year Seminar (SS)

- *Topic*: Latinos in the City (SS/CD)
- *Topic*: Buffalo to Bingo: Changing American Indian Societies (SS/CD)

224 American Minority Groups (SS/CD)

233 Social Inequality in the United States (SS)

250 Sex and Gender (SS)

320 Social Change in American Indian Societies (SS/CD) (jointly offered with AIS)

321 Contemporary Issues of the American Indian (SS/CD) (jointly offered with AIS)

323 Perspectives on Latino Communities (SS/CD)

Spanish

371 Introduction to Latino Literature in English (HU/CD)

373 Topics in Latino Literature in English: (subtitle) (HU/CD)

Therapeutic Recreation

202 Disability: Society and the Person (SS)

Urban Planning

140 Issues in Contemporary Urban Planning (SS)

350 Social Justice, Urban Planning, and the New Multicultural America (CD)

Urban Studies

150 Multicultural America (SS/CD) (if not selected above)

Women's and Gender Studies

150 Multicultural America (SS/CD) (if not selected above)

192 First-Year Seminar (HU)

- *Topic:* Gender in American Consumer Culture
- *Topic:* Drawing Women's Lives: The Graphic Memoir

200 Introduction to Women's and Gender Studies: A Social Science Perspective (SS)

201 Introduction to Women's and Gender Studies: A Humanities Perspective (HU)

Area III. Global Perspectives on Culture and Community

Africology

205 The Poetry of African, African-American, and Caribbean Writers (HU/CD) (if not selected in Area II)

232 Survey of African Societies and Cultures (SS)

235 African Americans and South Africa (HU)

334 Survey of Black American and Black Brazilian Societies (SS)

Anthropology

102 Introduction to Anthropology: Culture and Society (SS)

104 Lifeways in Different Cultures: A Survey of World Societies (SS)

250 Women's Roles in Cross-Cultural Perspective (SS)

355 Globalization, Culture, and Environment (SS)

Arabic

111 Cultures and Civilizations of the Muslim Middle East (HU)

Art History

104 African, New World, and Oceanic Art and Architecture (HU)

105 Asian Art and Architecture (HU)

Celtic Studies

133 Celtic Crossings: Overview of the History and Cultures of the Celtic World (HU)

Comparative Literature

133 Contemporary Imagination in Literature and the Arts (HU)

135 Experiencing Literature in the 21st Century (HU)

- *Topic:* Magical Realism and the Fantastic in Literature and Film
- *Topic:* Youth Culture in the Middle East Through Literature, Art, and Film

192 First-Year Seminar (HU)

- *Topic:* The Bible in African Societies
- *Topic:* Immigration and Exile in the Literatures of the Americas

207 World Literature in Translation: Antiquity Through the 1600s (HU)

208 World Literature in Translation: The 17th to the 21st Century (HU)

230 Literature and Society (HU)

- *Topic:* Gender and Utopia
- *Topic:* "New World" Literature
- *Topic:* Women and Sexuality
- *Topic:* Nazi Germany: Victims, Perpetrators, and Bystanders
- *Topic:* The Holocaust

231 Literature and Religion (HU)

- *Topic:* Holocaust and the Arts: Literature and Music
- *Topic:* Holocaust: Children and War
- *Topic:* Holocaust in Literature and Film
- *Topic:* Holocaust in Poland
- *Topic:* Nazis in Western Europe
- *Topic:* The Quran as Literature

232 Literature and Politics (HU)

- *Topic:* Contemporary Women Writers and the Ethics of Violence
- *Topic:* Gender and the Historical Novel
- *Topic:* The Representation of Revolution
- *Topic:* Women and War in Latin America and the Caribbean

233 Literature and Film (HU)

- *Topic:* The Literature and Film of Globalization

309 Great Works of Modern Literature (HU)

- *Topic:* Cultural Identity and the Postcolonial Text

Criminal Justice

410 Comparative Criminal Justice (SS)

Economics

193 First-Year Seminar (SS)

- *Topic:* Growth and Development of China, Japan, and Korea

English

243 Introduction to Literature by Women (HU)

- *Topic:* Literature About Women of East and Southeast Asia

278 Introduction to World Literatures Written in English (HU)

- *Topic:* Literature from the Middle East

685 Honors Seminar (HU)

- *Topic:* African Fiction

FLL

216 Survey of Civilization (HU)

- *Topic:* Language, Culture, and Politeness

Geography

110 The World: Peoples and Regions (SS) (if not selected in Area V)

193 First-Year Seminar (SS)

- *Topic:* Exploring India – Societies, Cultures, and Environments

213 Geography of Asia (SS) (if not selected in Area V)

231 Geography of Islam (SS)

315 Globalization and Economic Development (SS)

Global Studies

101 Introduction to Global Studies I: People and Politics (SS)

202 Introduction to Global Studies III: Globalization and Technology (SS)

Hebrew Studies

238 Topics in Hebrew/Jewish Literature, Art, and Culture (HU)

- *Topic:* The Arab-Israeli Conflict

- *Topic:* Judaism, Christianity, Islam: Three Religions – One God
- *Topic:* Moses, Jesus, Mohammed
- *Topic:* The Ten Commandments – History, Ethics, and Society
- *Topic:* Hebrew Culture: From the Bible to Popular Movies
- *Topic:* Conflict and Frustration in Modern Hebrew Film

254 Studies in Hebrew Culture (HU)

- *Topic:* Arabs and Jews in the Middle East: Conflict or Peace
- *Topic:* The Holocaust
- *Topic:* Contemporary Israeli Film
- *Topic:* Introduction to Jewish Ethics

261 Representing the Holocaust in Words and Images (HU)

368 Jewish and Christian Responses to the Holocaust (HU)

History

175 East Asian Civilization to 1600 (HU)

176 East Asian Civilization Since 1600 (HU)

180 Latin American Society and Culture (SS)

192 First-Year Seminar (HU)

- *Topic:* Global Religions: Diversity and Dialogue
- *Topic:* History and Globalization

193 First-Year Seminar (SS)

- *Topic:* History and Globalization

200 Historical Roots of Contemporary Issues (SS)

- *Topic:* Latin America and Globalization
- *Topic:* The African Diaspora

210 The Twentieth Century: A Global History (SS)

280 Islamic Civilization: The Formative Period, ca. 500-1258 (HU)

281 Islamic Civilization: The Middle Period, ca. 1200-1805 (HU)

282 The Modern Middle East in the Nineteenth and Twentieth Centuries (HU)

284 Buddhism Across Asia (HU)

287 The Vietnam War (SS)

379 Introduction to Jewish History (HU)

398 Honors Seminar:

- *Topic:* History, Memory, and Reconciliation in East Asia (HU)

Jewish Studies

247 Topics in Jewish Literature, Art, and Culture (HU)

- *Topic:* Anti-Semitism from Biblical Times to the Present

261 Representing the Holocaust in Words and Images (HU) (jointly offered with Hebr St)

368 Jewish and Christian Responses to the Holocaust (HU) (jointly offered with Hebr St)

379 Introduction to Jewish History (HU)

Latin American and Caribbean Studies

101 Introduction to Latin American and Caribbean Studies (HU)

Latin American, Caribbean, and U.S. Latin@ Studies

324 Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre (jointly offered with Theatre)

Philosophy

204 Introduction to Asian Religions (HU)

Political Science

106 Politics of the World's Nations (SS)

175 Introduction to International Relations (SS)

371 Nationalism and Ethnic Conflict (SS)

Portuguese

192 First-Year Seminar (HU)

- *Topic:* History of Brazil
- *Topic:* Samba to Punk: Luso-Brazilian Music and Citizenship

225 Understanding Brazil (HU)

- *Topic:* African Presence in Brazilian Culture and Literature
- *Topic:* Race, Class, and Gender

360 Brazilian Culture (HU)

- *Topic:* Brazilian Music
- *Topic:* Brazilian Culture Through Film
- *Topic:* Music of Brazil and Portuguese-Speaking Countries

380 Luso-Brazilian Literature in Translation (HU)

- *Topic:* Race, Gender, and Military Struggles – Africa, Brazil, etc.
- *Topic:* The Lusophone Triangle: Portugal, Brazil, Africa

Religious Studies

101 Introduction to World Religions (HU)

Russian

192 First-Year Seminar (HU)

- *Topic:* Russia Today

Scandinavian Studies

192 First-Year Seminar (HU)

- *Topic:* Trolls, Gnomes, and Goblins: Scandinavian Myth and Legend

Sociology

103 World Society (SS)

235 Social Change in the Global Economy (SS)

Spanish

225 Understanding the Hispanic World: (subtitle) (HU)

380 Spanish Literature in Translation: (subtitle) (HU)

383 Spanish-American Literature in Translation: (subtitle) (HU)

391 Social and Historical Issues in the Hispanic World: (subtitle) (HU)

Theatre

324 Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre (jointly offered with LACUSL)

Area IV. Art, Culture, and Community

Art

100 American Art and Culture (A/CD) (LEC with CC content only)

105 Art & Design Lecture Series (A)

106 Art Survey (A)

150 Multicultural America (A/CD) (if not selected above)

Art Education

130 Multicultural Art and Visual Learning in Elementary Education (A/CD)

Dance

122 African Dance and Diaspora Technique I (A/CD)

313 History of Dance in the African Diaspora (A/CD)

320 Rituals and Culture (A)

360 Movement and Learning (A)

370 World Movement Traditions (A)

- *Topic:* Dances of the World
- *Topic:* Hip Hop 1/2/3
- *Topic:* Salsa/Merengue, Tai-Chi, Capoeira: Afro Brazilian Dance
- *Topic:* Capoeira: Afro Brazilian Dance

Film

150 Multicultural America (A/CD) (if not selected above)

302 Video in the Classroom (A)

Music

102 American Popular Music (A)

280 Special Studies in Music

- *Topic:* Music in American Culture (A/CD)

309 American Folk and Popular Music (A)

310 Introduction to World Musics (A)

Theatre

120 Performance and Popular Culture (A)

204 Participatory Theatre (A)

260 Storytelling (A)

- *Topic:* Elder Tales
- *Topic:* Milwaukee - Stories from Our Own Backyard
- *Topic:* Stories and the Cultural Voice
- *Topic:* Toby to Tupac - Stories and Songs in Popular Culture
- *Topic:* Discovering Your Personal Story

Area V. Science, Culture, and Society

American Indian Studies

105 Ethnobotany: Plants in Anishinaabe Culture (CD; if not selected in Area II)

106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD; if not selected in Area II)

Biological Sciences

103 Topics in Modern Biology (NS)

- *Topic:* Biology Through Art (NS)

- *Topic:* Discovering DNA: Our Society and Health (NS)

185 Introductory Biology for Teachers (NS+)

194 First-Year Seminar (NS)

- *Topic:* Forbidden Knowledge: Science and Censorship

206 Biology of Women (NS)

Chemistry

381 Honors Seminar (NS)

- *Topic:* Sustainable Earth: Environmental and Societal Development

Conservation and Environmental Science

210 Introduction to Conservation and Environmental Science

Geography

110 The World: Peoples and Regions (SS) (if not selected in Area III)

125 Introduction to Environmental Geography (NS)

140 Our Urban Environment: Introduction to Urban Geography (SS)

213 Geography of Asia (SS) (if not selected in Area III)

350 Conservation of Natural Resources (SS)

Health Sciences

245 Client Diversity in Health Sciences: An Interdisciplinary Approach (SS)

Course offered by the College of Health Sciences; also available as BMS, ComSDis, HCA, Kin, OccThpy, and TherRec.

History

229 History of Race, Science, and Medicine in the United States (HU/CD) (if not selected in Area II)

L&S Natural Sciences

295 Seminar in the Natural Sciences (NS) (if not selected in Area II)

- *Topic:* Seminar on Green Science and Urban Spaces

Nursing

101 Cultural Diversity in Healthcare (SS/CD)

380 Honors Seminar (SS)

- *Topic:* Negotiating Differences: Race and Culture in Contemporary Healthcare

Philosophy

244 Ethical Issues in Health Care: (subtitle) (HU)

Physics

194 First-Year Seminar (NS)

- *Topic:* Physics, Science, and Technology in Our Society: Friend or Foe?

Religious Studies

106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)

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College of Letters and Science

Childhood and Adolescence Studies

W. Hobart Davies, Professor, Department of Psychology, hobart@uwm.edu

The Childhood and Adolescence Studies (CAS) Certificate Program provides students with a multidisciplinary opportunity to focus on children and adolescents through course offerings in the social sciences, humanities, health sciences, social work, education, and other disciplines. A wide spectrum of courses will allow students to understand children and adolescents from a variety of perspectives, facilitating the implementation of effective strategies to improve and enrich the lives of children and adolescents.

The Childhood and Adolescence Studies Certificate is intended to enhance a bachelor's degree. The Program is open to all students seeking a bachelor's degree from UWM and to students who previously have received a bachelor's degree from UWM or any other accredited college or university.

Program Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits in approved childhood and adolescence studies courses as indicated below. Courses for the certificate may not be taken on a credit/no credit basis.

Core Courses, 6 cr

Psych 260	Child Psychology	3
Sociol 448	Sociology of Children and Adolescents	3

Elective Courses, 12 cr

Elective credits must be selected from the list of approved courses below. Students may petition the CAS Advisory Committee for approval of appropriate courses not on the approved list.

Other Requirements

Twelve of the 18 required credits must be earned in residence at UWM. Of these twelve residence credits, nine must be taken at the 300 level or above.

Of the 18 required credits, 12 must be in the College of Letters and Science, with at least six of these at the 300 level or above. Three credits must be elected from outside the College of Letters and Science. No more than nine credits from any one department may count toward the Childhood and Adolescence Studies Certificate.

A maximum of six credits in Independent Study may count toward program requirements.

Approved Courses

Letters and Science – at least 6 credits are required

Africol 451	Rites of Passage in Black Societies
Africol 565	Selected Texts/Topics in Africology: "Raising Children, 'Race-ing' Children" subtitle
CompLit 135	Experiencing Literature in the 21st Century: "Youth Culture in the Middle East Through Literature, Art, and Film" subtitle

English/FilmStd 312	Topics in Film Studies: "Troubled Teens" subtitle
FilmStd 212	Intermediate Topics in Film Studies: "Teens on TV" subtitle

French 426	Growing Up French
Honors 200	Honors Seminar: The Shaping of the Modern Mind - "Growing Up" subtitle

IntlSt 550	Senior Seminar in International Studies: "Global Youth Language and Culture" subtitle
Psych 205	Personality
Psych 660	Experimental Child Psychology
Sociol 246	Juvenile Delinquency
Sociol 248	Sociology of Education
Non-L&S Courses – at least 3 credits are required	
ComSDis 240	Normal Speech and Language Development
Crn Jst 671	Juvenile Justice
CurrIns 233	Introduction to Children's and Young Adult Literature
CurrIns 650	Reading Interests of Adolescents
CurrIns 651	Literature for the Young Child
Ed Pol 534	The Student at Risk (Causes)
Ed Pol 580	An Overview of Child/Youth Care (jointly offered with ExcEduc 580 and Soc Wrk 580)
Ed Pol 581	Youth Work Practice (jointly offered with ExcEduc 581 and Soc Wrk 581)
Ed Psy 330	Introduction to Learning and Development
Ed Psy 640	Human Development: Theory and Research
ExcEduc 580	An Overview of Child/Youth Care (jointly offered with Ed Pol 580 and Soc Wrk 580)
ExcEduc 581	Youth Work Practice (jointly offered with Ed Pol 581 and Soc Wrk 581)
ExcEduc 600	Survey of Exceptional Education
HCA 203	Human Life Cycle
InfoSt 645 (648)	Library Materials for Children
InfoSt 646 (658)	Library Materials for Young Adults
InfoSt 691	Special Topics in Information Science: "African American History in Children's Literature"; "GLBTQ Literature for Young Adults"; "Multicultural Children's Literature" subtitles
Nurs 203	Human Growth and Development Across the Life Span
Nutr 245	Life Cycle Nutrition
PH 206	Child and Adolescent Health
PH 306	Adolescent Health and Development
Soc Wrk 250 (350)	Human Behavior and the Social Environment
Soc Wrk 562	Child and Family Services
Soc Wrk 580	An Overview of Child/Youth Care (jointly offered with Ed Pol 580 and ExcEduc 580)
Soc Wrk 581	Youth Work Practice (jointly offered with Ed Pol 581 and ExcEduc 581)

Independent study courses focusing on children and adolescents may be accepted with the approval of the CAS Advisory Committee. If a core course is not offered in the years an undergraduate student is pursuing the certificate, the student can petition the CAS Advisory Committee to accept another course in its stead. Other courses not on this list but relevant to the study of children and adolescents may be accepted with the approval of the CAS Advisory Committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the CAS Advisory Committee. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

Awarding the Certificate

Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree will receive the certificate upon completion of the program requirements.

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Course in Chemistry

Peter Geissing, *Associate Professor of Chemistry, Coordinator*

Students following this curriculum are awarded the Bachelor of Science degree. This professional program has been approved by the American Chemical Society as providing a strong professional training in chemistry suitable for those who intend to go on to graduate school or to enter the chemical profession directly. Graduates of this program are awarded a certificate by the American Chemical Society; they also qualify for full membership in the Society upon graduation, without the three years of experience that normally are required. The Department of Chemistry and Biochemistry administers the program.

Admission. Students may declare the Course in Chemistry as their major when they have completed Chem 102 and 104, either have completed or currently are enrolled in Chem 343, Math 232, and Physics 209, and have earned a GPA of 2.500 or better on all chemistry courses attempted. Students are urged strongly to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in chemistry.

Curriculum Requirements. General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by Chem 102 and 104 (10 cr). Students without high school chemistry, or whose background in science is weak, may need to take Chem 100 first. Students intending to follow the Course in Chemistry should begin general chemistry in their first semester. Because study in chemistry is cumulative, postponing the start in chemistry courses will delay completion of the degree.

Mathematics and physics are essential in the education of a chemist. In addition, there are calculus and physics prerequisites to physical chemistry, which in turn is a prerequisite to advanced chemistry courses required for the degree. It is essential, therefore, to start the calculus sequence, along with the general chemistry, early in the program.

The Course in Chemistry also has specific requirements outside of the sciences. To graduate, students are required to have an overall GPA of 2.000 and a 2.500 GPA in chemistry courses other than Chem 106. A total of at least 18 credits in the humanities, social sciences, and arts is required. This course array supersedes the College of Letters and Science breadth requirements; courses must be selected to include the campus-wide GER distribution requirements (6 cr. each in humanities and social sciences, 3 cr in arts, and 3 cr in cultural diversity). Students also must complete two courses (at least 6 credits) in a single language (including American Sign Language) other than English at the 100 level or above with grades of C or higher. This requirement is satisfied by two years of a single language (including American Sign Language) other than English taken in high school. English 102 with a grade of C or better is required to help in developing written communication skills.

Requirements for the Course in Chemistry are as follows:

General Chemistry (Chem 102/104)	10
Analytical Chemistry (Chem 221)	4
Organic Chemistry (Chem 343, 344, 345)	8
Physical Chemistry (Chem 561, 562, 563)	8
Inorganic Chemistry (Chem 311)	3
Biochemistry (Chem 501)	3
Instrument Analysis (Chem 524)	3

Advanced Chemistry Laboratories (Chem 582, 584)	4
Advanced Inorganic Chemistry (Chem 511)	3
Capstone Requirement/Independent Research (Chem 691 or Chem 692 or Chem 697)	1 or 2
Calculus (Math 231, 232, 233, and Math 234)	16
Physics, calculus-based with lab (Physics 209/214, 210/215)	10
English 102 with grade of C or better or score level 4 on English placement exam	0-3
Humanities, social sciences, and arts	18
Two semesters or equivalent of a language other than English	6

The Course in Chemistry can be completed in four academic years, within the 120-credit requirement of the Bachelor of Science degree. However, without good pre-college preparation, some additional credits might be required. The student who must take additional mathematics before beginning calculus, or must take Chem 100 before general chemistry, or needs two college semesters of foreign language, or has difficulty in satisfying writing requirements, may require more than the 120-credit minimum. There is room in the program to handle some weakness in preparation, but it may require taking a heavy load of science and mathematics courses during the first two years and postponing some of the humanities/social sciences/arts courses until the third and fourth years.

A recommended curriculum for the Course in Chemistry is outlined below. The two semesters of physics may be started as soon as calculus is begun, and should be completed during the first two years. Most students finish Chem 343-345 (organic chemistry) and 221 (quantitative analysis) during the first two years, although some delay in these courses is not critical. Physical chemistry should be taken in the junior year.

The curriculum shown presumes high school language preparation equivalent to the first two semesters of college language study. If the foreign language requirement must be satisfied through college work, it would be best to postpone its start until the junior year, using those early electives for GER distribution. German, Russian, and French traditionally have been most useful in chemistry, but Japanese and Chinese are increasing in importance (see the Department of Foreign Languages and Literature). Students who must take additional writing courses to qualify for English 102 should do so early.

All students interested in the Course in Chemistry should see an advisor in the Chemistry and Biochemistry Department early in their program. This is particularly important for those who will need to deviate from the indicated curriculum in its early stages.

RECOMMENDED CURRICULUM FOR THE COURSE IN CHEMISTRY

Freshman Year, Sem 1		Cr
Chem 102	General Chemistry	5
Math 231	Calculus and Analytic Geometry	4
English 102	College Writing and Research	3
Elective		3
Total		15
Freshman Year, Sem 2		Cr
Chem 104	General Chemistry and Qualitative Analysis	5

Math 232	Calculus and Analytic Geometry	4	
Electives		6	
Total		15	
Sophomore Year, Sem 1			Cr
Chem 223	Elementary Quantitative Analysis	4	
Chem 343	Organic Chemistry	3	
Physics 209/214	Physics I (Calculus Treatment)	5	
Math 233	Calculus and Analytic Geometry	4	
Total		16	
Sophomore Year, Sem 2			Cr
Chem 344	Organic Chemistry Laboratory	2	
Chem 345	Organic Chemistry	3	
Math 234	Linear Algebra and Differential Equations	4	
Physics 210/215	Physics II (Calculus Treatment)	5	
Elective		1-3	
Total		15-17	
Junior Year, Sem 1			Cr
Chem 311	Introduction to Inorganic Chemistry	3	
Chem 501	Introduction to Biochemistry	3	
Electives		9	
Total		15	
Junior Year, Sem 2			Cr
Chem 561	Physical Chemistry I	3	
Electives		12	
Total		15	
Senior Year, Sem 1			Cr
Chem 562	Physical Chemistry II	3	
Chem 563	Physical Chemistry Laboratory	2	
Chem 524	Instrument Analysis	3	
Chem 582	Advanced Chemistry Laboratory I	2	
Capstone Course		1 or 2	
Electives		4-5	
Total		16	

Senior Year, Sem 2		Cr
Chem 511	Advanced Inorganic Chemistry	3
Chem 584	Advanced Chemistry Laboratory II	2
Electives		10
Total		15

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College of Letters and Science

Celtic Studies

Josepha Lanters, *Professor in English*, and Bairbre Ni Chiardha, *Lecturer in Celtic Studies, Co-Directors*
MER G42, (414) 229-2608, bairbre@uwm.edu

The Certificate Program in Celtic Studies provides for students in any field an integrated course of study across several curricular areas in the historical and contemporary cultures of the Irish, Scots, Welsh, Cornish, Manx, Breton, and Galician peoples. Students can concentrate on the Celtic languages, both spoken and written, or they may choose to investigate the broader themes of the Celtic world, such as art, archaeology, literature, history, folklore, music, and myth. Students also are encouraged to enrich their campus experience through participation in study abroad programs.

Eligibility

The Certificate Program in Celtic Studies is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements.

Requirements

To obtain the certificate, students must complete 18 credits in required courses with a minimum GPA of 2.750, including Celtic 133 and at least 9 credits in upper-division (numbered 300 and above) courses selected from Celtic courses and/or the list of approved electives. At least half the credits for the certificate must be taken in residence at UWM. All students are urged to participate in a study abroad program. Credits earned via study abroad through a UWM-sponsored program count as residence credits. No more than 9 credits from a single curricular area may count toward the certificate requirements, and students must select courses from at least three different curricular areas in completing their requirements. Students elect one of the following options:

OPTION A - Language Emphasis. This option requires the following three courses (9 credits) and at least 9 additional credits numbered 300 or above selected from Celtic courses and/or the approved Celtic studies electives list.

Required Courses

Celtic 133	Celtic Crossings: Overview of the History and Cultures of the Celtic World
Celtic 203	Third Semester Gaelic
Celtic 204	Fourth Semester Gaelic

OPTION B - Cultural Emphasis. This option requires the following two courses (6 credits) and at least 12 additional credits selected from Celtic courses and/or the approved Celtic studies electives list.

Required Courses

Celtic 133	Celtic Crossings: Overview of the History and Cultures of the Celtic World
Celtic 103	First Semester Gaelic

Recommended Course

Students in the cultural emphasis are encouraged, but not required, to take the following course:

Celtic 104	Second Semester Gaelic
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Approved Celtic Studies Electives

Students may select from all Celtic courses [see “Courses (CELTIC)” below] or any of the following courses offered in other areas.

Anthro 305	The Celtic World
Anthro 306	European Archaeology
Anthro 381	Honors Seminar: "The Celtic World" subtitle
Dance 370	World Movement Traditions: “Irish Dance History and Practice” and "Irish Step Dance" subtitles
English 192	First-Year Seminar: "Celtic Folk and Fairy Tales" subtitle
English 229	Introduction to Modern Literature: "Irish Modernism" subtitle
English 243	Introduction to Literature by Women: "Irish Women Writers"; "Contemporary Celtic Women Writers" subtitles
English 245	The Life, Times, and Work of a Literary Artist: "Flannery O'Connor" subtitle
English 247	Literature and Human Experience: "Literature from Northern Ireland" subtitle
English 263	Introduction to the Novel: "The Irish Tradition" and "The Irish Novel" subtitles
English 275	The Forms of Folk Literature: "Irish Myth and Folklore" subtitle
English 277	Introduction to Ethnic Minority Literature: "Irish American Literature"
English 285	Modern Irish Literature and Language
English 306	Survey of Irish Literature
English 325	The Art of Fiction: "The Irish Short Story" subtitle
English 344	Modern Drama: "Contemporary British and Irish Plays" subtitle
English 370	Folk Literature: "Folklore of the Celts" subtitle
English 464	Writers in Irish Literature: (subtitle)
English 518	Studies in Irish Literature: (subtitle)
English 519	Studies in Irish American Literature: (subtitle)
English 622	Seminar in Irish Literature: (subtitle)
Hist 200	Historical Roots of Contemporary Issues: "Ireland: A Celtic Nation"; "The Celtic Cultural Experience"; "Ireland's English Problem" subtitles
Hist 235	English History to 1688
Hist 236	Britain Since 1688: Rise and Decline of a Great Power
Hist 250	Topics in European History: "Peace and Conflict in Northern Ireland" subtitle
Hist 353	Ireland Since 1600: Colony to Independent State
Hist 370	Topics in the History of Religious Thought: "Christianity in Early England and Ireland" subtitle
Hist 371	Topics in European History: "Christianity in Early England and Ireland" subtitle
Portugs 499	Ad Hoc: "Galician Culture: An Overview" subtitle
Spanish 123	Regional Languages of Spain: First Semester - "Galician" subtitle
Spanish 124	Regional Languages of Spain: Second Semester - "Galician" subtitle
Spanish 377	Introduction to Galician Culture
Theatre 490	Topics in Theatre: "Irish Theatre: A Sense of Place" and "20th Century Irish Theatre and Consequence of Place" subtitles

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the certificate program committee.

Awarding the Certificate

All students will receive the certificate upon successful completion of the program requirements.

Courses

[Celtic Studies \(CELTIC\)](#)

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College of Letters and Science

Comparative Ethnic Studies

Rachel Buff, *Professor of History, Program Coordinator*
Holton Hall 313
(414) 229-6483
uwm.edu/comparative-ethnic-studies/

The Comparative Ethnic Studies Program offers both an undergraduate major through the Committee Interdisciplinary Major and an undergraduate certificate in comparative ethnic studies. For information on the comparative ethnic studies certificate, see the L&S Certificate Programs section of this catalog.

Comparative Ethnic Studies Major

The Comparative Ethnic Studies major provides the opportunity for students to explore questions of social identity and power using an interdisciplinary lens. Taught within the program as well as in departments across the curriculum, Comparative Ethnic Studies courses address questions of race and ethnicity, gender, class, and sexuality through a comparative frame. The major, although sharing the interdisciplinary character of the certificate program, allows students to explore these questions in depth, as students select an established track or create an individualized program in concert with the Comparative Ethnic Studies advisor.

Learning Outcomes

Students who complete the major will be able to do the following:

- Discuss the complexities of social identity for public policy as well as cultural formations;
- Provide interdisciplinary explanations for historical and contemporary conflicts based in race, ethnicity, gender, and sexuality;
- Identify and assess different theoretical frameworks for explaining social change and relationships between actors, institutions, and ideas of identity.

Course of Study

The CIM formal submajor in Comparative Ethnic Studies requires completion of at least 33 credits in approved Comparative Ethnic Studies and Comparative Ethnic-related courses. Students may count toward the major a maximum of 9 credits in a single curricular area outside of Comparative Ethnic Studies. A minimum of 18 credits must be completed in L&S courses, and at least 15 credits must be at the upper-division level (courses numbered 300 and above) taken in residence at UWM. Completion of the College's research experience in the major is required. Ethnic 550 or another suitable course approved by the coordinator satisfies this requirement. Students must attain at least a 2.500 GPA on all major credits attempted at UWM. In addition, the College requires that students earn a 2.500 GPA on all credits in the major, including transfer work.

The following are required:

Survey Courses, 6 cr – both of the following:

Ethnic 101 The Making of American Cultures: Africans, Europeans, and Indian Nations
Ethnic 102 Transnational Migrations: Asian-, Arab-, Euro-American, and Latino Identity

Comparative Methods, 3 cr – at least one of the following:

Ethnic 275 Queer Migrations
Ethnic 350 Advanced Topics in Comparative Ethnic Studies: (subtitle)

Ethnic 375 Global Violence, Disease, and Death
*** 150 Multicultural America (offered in the following curricular areas: Anthropology, Art, English, Film, History, Sociology, Urban Studies, Women's and Gender Studies)

Students may count a maximum of three courses from this group toward the major requirements.

Track Electives, 18 cr – Students must complete either Track A or Track B.

A. Hmong Studies: Students complete the following four courses and six additional credits selected in consultation with the coordinator.

Ethnic/Hmong 265 Hmong Americans: History, Culture, and Contemporary Life
Ethnic 250 Selected Topics in Ethnic Studies: (subtitle)
Hmong 350 Selected Topic in Hmong Studies: (subtitle) (Course under development)
Hist 287 The Vietnam War

B. Student-Created Focus: Students complete 18 credits selected in consultation with the coordinator from the list of approved courses.

Internship, 3 cr – select one of the following:

Ethnic 489 Internship in Ethnic Studies, Upper Division
Hmong 489 Internship in Hmong Studies, Upper Division

Capstone, 3 cr

Ethnic 550 Capstone in Comparative Ethnic Studies

Approved Electives

Africology

100 Black Reality: Survey of African-American Society
102 Survey of African-American Literature
111 Introduction to African-American History to 1865
112 Introduction to African-American History, 1865 to the Present
121 Introduction to African-American Politics
125 Economics of the Black Community
163 African-American Concepts of Self
205 The Poetry of African, African-American, and Caribbean Writers
210 The African-American Novel
215 Introduction to Black Social and Cultural Traditions
235 African Americans and South Africa
250 Black Women and White Women in the Contemporary United States
261 Survey of African-American Political Philosophy
300 Urban Violence
312 The Church in African-American Life
314 The School in African-American Life
319 African American Urban History
320 Black Cultures in Latin America and the Caribbean
322 Order and Disorder: The Quest for Social Justice
334 (234) Survey of Black American and Black Brazilian Societies
341 Black Politics and City Government
344 Global Black Social Movements
350 The Black Family
351 Sexuality, Gender, and Health in Africa and the Diaspora
369 Black Images and Mass Media
372 African-American Literary Movements: The Harlem Renaissance
411 Change in African-American Communities
412 Blacks and the United States Constitution
414 The Black Woman in America, Africa, and the Caribbean
416 Race and Social Justice in the United States
417 Race, Class, and Gender in Southern Africa
418 Race, Class, and Gender in Latin America and the Caribbean
420 The Political Economy of Slavery

450	Cultural Transmissions: Black Africa and Black America
451	Rites of Passage in Black Societies
Anthropology	
203	Religions of Hunting-Gathering and Horticultural Societies
213	American Indian Peoples of Wisconsin
225	The Aztec Empire
310	Archaeology of Middle America
311	The World of the Ancient Maya
314	American Indian Societies and Cultures
315	Peoples and Cultures of Mexico and Central America
320	Peoples and Cultures of Africa
322	Europe in Anthropological Perspective
325	Japanese Culture and Society
326	Peoples and Cultures of South Asia
328	Comparative Studies of Music, Race, and Gender in Nationalism
335	American Indians of the Southeast
355	Globalization, Culture, and Environment
441	Nature, Knowledge, and Technoscience in Anthropological Perspective
442	Humanitarianism in Global Perspective
443	Medicine and Pharmaceuticals in the Global Age
447	The Global Politics of Human Rights
Comparative Literature	
365	Literatures and Cultures of the Americas: (subtitle)
English	
209	Language in the United States
210	International English
276	Introduction to American Indian Literature: (subtitle)
277	Introduction to Ethnic Minority Literature: (subtitle)
278	Introduction to World Literatures Written in English: (subtitle)
279	Introduction to U.S. Latino/a Literature: (subtitle)
280	Introduction to Asian-American Literature: (subtitle)
281	Introduction to African-American Literature: (subtitle)
285	Modern Irish Language and Literature in Translation
332	Gay and Lesbian Literature
372	Survey of American Indian Literature
373	Survey of Ethnic Minority Literature
374	Survey of U.S. Latino/a Literature
375	Survey of Asian American Literature
376	Survey of African-American Literature to 1930
377	Survey of African-American Literature, 1930 to the Present
463	Writers in African-American Literature: (subtitle)
464	Writers in Irish Literature: (subtitle)
517	Studies in African-American Literature: (subtitle)
518	Studies in Irish Literature: (subtitle)
519	Studies in Irish-American Literature: (subtitle)
520	Studies in American Indian Literature: (subtitle)
521	Studies in Ethnic Minority Literature: (subtitle)
522	Studies in World Literature Written in English: (subtitle)
523	Studies in U.S. Latino/a Literature: (subtitle)
524	Studies in Asian-American Literature: (subtitle)
525	American Indian Literature, Culture, and Creative Arts
631	Seminar in African-American Literature: (subtitle)
632	Seminar in American Indian Literature: (subtitle)
Geography	

114	Geography of Race in the United States
309	Nationalities and Nations of the World
400	Geography of Population
410	Gendered Geographies
462	Cultural Geography of Latin America
History	
175	East Asian Civilization to 1600
176	East Asian Civilization Since 1600
180	Latin American Society and Culture
210	The Twentieth Century: A Global History
215	History of Capitalism
229	History of Race, Science, and Medicine in the United States
243	History of Women in American Society
246	Homosexuality in History
262	North American Indian History to 1887
263	North American Indian History Since 1887
267	The History of Latinos in the United States
268	History of the American West
269	Asian Americans in Historical Perspective
271	The 1960s in the United States: A Cultural History
272	The Blues: History and Culture
287	The Vietnam War
358	The Jews of Modern Europe: History and Culture
363	Germany: Hitler and the Nazi Dictatorship
364	The Holocaust: Anti-Semitism and the Fate of Jewish People in Europe, 1933-45
379	Introduction to Jewish History
380	Buddhism: A Cultural History
382	Southeast Asia: The Age of Imperialism and Revolution Since 1800
383	North Africa from the Arab Conquest to the Present
385	Political Islam to Zionism: Middle Eastern Intellectual History, 1789-1990
386	Africa: The Age of Empires to 1880
387	Africa: Imperialism and Independence Since 1880
392	The History of Southern Africa
393	History of Mexico
394	History of Japan to 1600
395	History of Japan Since 1600
435	Ethnic America: To 1880
436	Immigrant America Since 1880
445	African Americans from Slavery to Freedom
446	African Americans Since the Civil War
460	The History of Poverty in America
463	History of the American City
468	The American Feminist Movement
469	Manhood in America
473	History of Wisconsin Indians
474	Topics in North American Indian History: (subtitle)
Journalism, Advertising, and Media Studies	
111	Gender and the Media
112	Global Media
210	Jewish and Ethnic Narratives and Identities in Media
Linguistics	
430	Language and Society
432	Urban Dialects
Political Science	

215	Ethnicity, Religion, and Race in American Politics
388	Latino Politics
Psychology	
578	Psychology of Race, Ethnicity, and Health
Sociology	
233	Social Inequality in the United States
235	Social Change in the Global Economy
320	Social Change in American Indian Societies
321	Contemporary Issues of the American Indian
323	Perspectives on Latino Communities
324	Comparative Race Relations
423	Latino Immigration and Incorporation: (subtitle)

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College of Letters and Science

Religious Studies

- [Course of Study: Major](#)
- [Course of Study: Minor](#)

Judith Beall, *Adjunct Asst. Prof., Acting Director*

The interdisciplinary major in religious studies draws on the resources of UWM faculty members with a teaching and research interest in religion. This program provides students with a broad humanistic background in religion and an opportunity to develop special concentrations in specific areas of interest. There is no sectarian program of instruction. Rather, faculty members bring to their teaching the special academic characteristics of their own scholarly disciplines, and majors in the program draw upon a wide sample of those academic traditions. Thus, such subjects as the history and philosophy of religion and religion in art and literature are included in this program. Students choose from courses that consider religion in a wide array of cultural and historical contexts around the globe, including Buddhist, Christian, Classical Greek and Roman, Hindu, Islamic, Jewish, African, and American Indian religions.

Religious studies serves students seeking a broadly humanistic program, those who are pursuing a wide range of pre-professional education programs, those anticipating teaching careers at the secondary or higher educational level, and those who will undertake further study for the religious ministry.

Course of Study: Major

The religious studies major requires completion of at least 33 credits, including at least 18 in upper-division courses (numbered 300 and above) of which at least 15 must be taken in residence at UWM. In satisfying these requirements, students must select courses from at least three different curricular areas. The College requires that students attain at least a 2.500 GPA on all major credits attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. The required 33 credits must be distributed as follows:

I. CORE COURSES: (6-9 cr)

A. Recommended: ReligSt 101 Introduction to World Religions

B. Required Methods Course: One of the following courses (or equivalent) is required:

1. ReligSt 395 Seminar in the Study of Religion: Theories of Religion
2. Hist 594 Methods and Theory in the Historical Study of Religion: (subtitle)

C. Required Capstone Experience. All students must complete a research experience in their major. This requirement may be met by any one of the following options:

1. Hist 600 Seminar in History: (subtitle), with research conducted on a religion-related topic;
2. For students with additional major(s), upper-level research seminar in the additional major that focuses on a religion-related topic;
3. A 3-credit independent study on a religion-related topic;
4. Senior thesis in another program/department on a religion-related topic;
5. Research paper focused on a religion-related topic as approved by the director.

In all cases, the religious studies director must approve the topic to satisfy the research requirement. Majors are required to file the appropriate research/capstone approval form prior to completion of their research/capstone course.

II. ELECTIVES (27 cr)

A. All majors are required to complete at least 27 additional credits beyond the core courses. Nine elective credits must be distributed among three different religious traditions.* Twelve of these 27 credits must be numbered 300 or above. The list of approved electives is posted on the program's website: uwm.edu/religiousstudies/undergraduate-programs.

B. Relevant language courses above the second semester will be counted as electives toward the Religious Studies major. Relevant languages depend on the student's primary concentrations in religious studies but potentially include Arabic, Chinese, Japanese, Korean, Thai, Greek, Latin, Hebrew, German, Spanish, French, Italian, or other languages with approval of the director. Majors must file the appropriate forms with the director to receive approval for language courses.

* A religious tradition course must focus primarily [more than 50%] on one specific religion.

III. OPTIONAL CONCENTRATION

Religious Studies majors have the option of focusing their programs of studies on one or more religious traditions. To discuss this option, please contact the Program director.

Course of Study: Minor

The minor requires 18 credits in approved Religious Studies courses, including at least 9 upper-division (numbered 300 and above) credits taken in residence at UWM. Students must complete coursework from at least two different curricular areas. In addition, the minor must include courses dealing with two different religious traditions. (ReligSt 101 may not be used in fulfilling this requirement.) The College requires that students earn at least a 2.500 GPA on all UWM courses attempted for the minor. A 2.500 GPA also is required on all minor credits attempted, including any transfer work.

Double Major

It often is possible to complete a double major in Religious Studies and another subject. This is the case particularly when a student already has undertaken the major in the other field but has credits in religion courses as well. The student often can take courses that count for both Religious Studies and the other major.

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Digital Arts and Culture

Marc Tasman, *Senior Lecturer* in Journalism, Advertising, and Media Studies, Coordinator
BOL 570, (414) 229-2338, dac-info@uwm.edu

The Certificate Program in Digital Arts and Culture prepares students to creatively produce digital art and media content, critically analyze work produced by others, and theoretically understand cultural interactions between digital technologies and society. The certificate combines courses in the arts, humanities, and social sciences.

The certificate program is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements.

To obtain the certificate, students must complete a minimum of 24 credits with a GPA of 2.50 or above; at least 9 of these credits must be at the 300 level or above. At least 12 credits must be in courses from the College of Letters and Science, and at least 6 of the L&S credits must be at the 300 level or above. No more than 15 credits from a single curricular area may apply toward satisfaction of the certificate requirements. The following requirements must be met. All courses are 3 credits unless otherwise noted.

Required Courses – 12 cr minimum must be selected from among the following eight courses:

Art 118	Digital Arts: Culture, Theory, Practice
ArtHist/English/FilmStd 111	Entertainment Arts: Film, Television, and the Internet
Commun 313	Human Communication and Technology
English 439	Information Design
InfoSt 110	Introduction to Information Science and Technology
JAMS 101	Introduction to Mass Media
JAMS 113	Internet Culture
JAMS 336	Media Graphics

Conceptual Courses – 6 cr minimum

Anthro 302	Anthropology and Popular Culture
Anthro 340	Culture of Online Games and Virtual Worlds
Art 309	Issues in Contemporary Art: (topics vary; subject to approval)
ArtHist/English/FilmStd 111	Entertainment Arts: Film, Television, and the Internet (if not selected above)
ArtHist 472	History and Theory of New Media Art
Commun 313	Human Communication and Technology (if not selected above)
Commun 410	Organizational Communication Technology
Commun 413	Rhetoric and the Internet
Commun 440	Contemporary Problems in Freedom of Speech
CompLit 133	Contemporary Imagination in Literature and the Arts
CompLit 135	Experiencing Literature in the 21st Century
CompLit 233	Literature and Film: (subtitle)
English 192	First-Year Seminar: “WikiNation: Producing the Internet” subtitle

English 253	Science Fiction: (subtitle)
English 290	Introduction to Film Studies
English 291	Introduction to Television Studies
English 294	Game Culture
English 312	Topics in Film Studies: (subtitle)
English 328	Forms of Experimental Literature: (subtitle)
English 329	Film and Literature
English 380	Media and Society: (subtitle)
English 383	Cinema and Genre: (subtitle)
English 394	Theories of Mass Culture: (subtitle)
FilmStd 212	Intermediate Topics in Film Studies: “Participatory Culture: Audiences, Viewers, Fans” subtitle
FilmStd 290	Introduction to Film Studies
FilmStd 291	Introduction to Television Studies
FilmStd 312	Topics in Film Studies: “Cinema and Digital Culture”; “Science Fiction – Utopia and Dystopia” subtitles
FilmStd 329	Film and Literature
FilmStd 380	Media and Society: (subtitle)
FilmStd 383	Cinema and Genre: (subtitle)
FilmStd 394	Theories of Mass Culture
Global 202	Introduction to Global Studies III: Globalization and Technology
Global 351	Language, Media, and Social Practice in Global Communications
Global 500	Global Studies Capstone Seminar: “Global Communication” subtitle
Global 551	Global Communications Capstone: Future Trends
InfoSt 110	Introduction to Information Science and Technology (if not selected above)
InfoSt 120	Information Technology Ethics
InfoSt 310	Human Factors in Information Seeking and Use
InfoSt 675	Informational Technology and Organizations
InfoSt 691	Special Topics in Information Science: "Search Engine Society" subtitle
JAMS 101	Introduction to Mass Media (if not selected above)
JAMS 260	Contemporary Non-fiction Media
JAMS 262	Principles of Media Studies
JAMS 360 (560)	History of Mass Media
JAMS 361	Media Ethics
JAMS 559	Freedom of Expression in the Digital Age
JAMS 562 (662)	Media Studies and Culture
JAMS 645	Seminar in Health and the Media
Practicum Courses – 6 cr minimum	
Art 118	Digital Arts: Culture, Theory, Practice (if not selected above)
Art 212	Introduction to Digital Studio: A/V Strategies
Art 218	2D Design Strategies
Art 221	Introduction to Design
Art 253	Introduction to Photography
Art 277	Design for Digital Fabrication
ART 312	Intermediate Digital Studio
Art 316	Interactive Installation and Performance
Art 318	Electronics and Sculpture
Art 324	Web Design
Art 325	Web Design II
Art 327	Digital Media Workshop: (subtitle)
Art 393 (293)	Digital Printmaking I
English 202	Writing in the Humanities
English 214	Writing in the Professions: (subtitle)
English 328	Forms of Experimental Literature: (subtitle)

English 431	Topics in Advanced Communications: (subtitle)
English 435	Professional and Technical Communications
English 436	Technical Documentation
English 439	Information Design (if not selected above)
Film 380	Media Arts Module: (subtitle)
FineArt 313	Programming for Artists
Geog 215	Introduction to Geographic Information Science
Geog 525	Geographic Information Science
InfoSt 240	Web Design I
InfoSt 430	Multimedia Application Development
InfoSt 491	Advanced Topics in Information Science and Technology: "Flash" subtitle
InfoSt 685	Electronic Publishing and Web Design
JAMS 113	Internet Culture (if not selected above)
JAMS 204	News Writing and Technology
JAMS 231	Publication Design
JAMS 332	Introduction to Digital Documentary
JAMS 336	Media Graphics (if not selected above)
JAMS 356	Media Literacy
JAMS 380	Special Topics in Journalism, Advertising, and Media Studies: "Digital Storytelling" subtitle
JAMS 399	On-Campus Internship
Music 327	Analog and Digital Synthesis I
Music 328	Digital Synthesis and Systems II
Music 680	Special Studies in Music: "Interactivity and Improvisation" subtitle
Theatre 357	Digital Audio Workstations for Stage and Studio
Theatre 437 (317)	Sound Design and Technology
UrbStd 360	Perspectives on the Urban Scene: "Urban Activism and Social Media" subtitle
Independent study with any DAC faculty member	

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Committee.

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Ethics, Values, and Society (CEVS)

Blain Neufeld, Associate Professor in Philosophy, Coordinator
CRT 635, (414) 229-4719, neufeld@uwm.edu

The Certificate in Ethics, Values, and Society is an academic program that enables undergraduates to combine their study of ethics, politics, and social justice across disciplines and areas of study in the university. In particular, the Certificate enables students to combine (a) more practical and applied inquiries into ethical and social/political issues (perhaps pursued in the student's major) with (b) grounding in the theoretical foundations of such inquiries. The grounding in the main theories of ethics and political philosophy provided in the Foundational Philosophy Courses in the Certificate will add depth and richness to the student's studies in other, more applied and content-specific classes.

Certificate courses are organized around five themes with which most of the courses can be associated. Students are *encouraged* (not required) to select their Certificate courses with a thematic focus in mind:

1. **Institutions:** This theme concerns questions of ethics and justice in political, economic, legal, educational, and other institutions. Issues regarding international justice and human rights are also covered by this theme.
2. **Culture and Identity:** This theme explores and critiques conceptions of ethics and justice in relation to issues of culture and identity, including issues concerning class, race, gender, and sexual orientation.
3. **Environment:** This theme covers the just distribution and use of environmental resources, as well as the ethical treatment of non-human animals.
4. **Health:** This theme covers the just distribution and use of health resources, problems in bioethics, and related issues.
5. **Information Ethics:** This theme examines ethical issues regarding media and the use of information technology.

Program Eligibility

The Certificate in Ethics, Values, and Society is meant to enhance a bachelor's degree. The certificate is available to all students seeking a bachelor's degree from UWM and to students who previously have received a bachelor's degree from UWM or any other accredited college or university.

Program Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits (at least 6 courses) in approved CEVS courses, of which at least 12 credits must be in Letters and Science courses, with 6 of those at the 300 level or above. At least 12 credits must be earned in residence at UWM, and at least 9 of the credits taken in residence must be at the 300 level or above. No more than 12 credits from any one department may count toward the certificate. Courses for the certificate may not be taken on a credit/no credit bases. The following are required:

A. Foundational Philosophy Courses (6 credits): Select one course from each of the following sequences:

(A) Ethics

Philos 241

Introductory Ethics

Philos 341

Modern Ethical Theories

Philos 349 Great Moral Philosophers

(B) Social/Political Philosophy

Philos 242 Introduction to Social and Political Philosophy

Philos 355 Political Philosophy

Philos 384 The Philosophy of Law

B. Electives (9 credits; at least 3 courses): Select from among the following courses that focus substantially on themes of ethics, value, justice, and the like.

Africology 261 Survey of African American Political Philosophy

Africology 265 The Psychological Effects of Racism

Africology 329: Economic Growth and Sustainable Development in Africa

Africology 341: Black Politics and City Government

Africology 351: Sexuality, Gender, and Health in Africa and the Diaspora

Africology 416: Race and Social Justice in the United States

Anthro 440 Medical Anthropology

Anthro 104 Lifeways in Different Cultures

CompLit 230 Literature and Society: (w/appropriate subtitle)

CompLit 232 Literature and Politics: (w/appropriate subtitle)

CompLit 309 Great Works of Modern Literature: (w/appropriate subtitle)

CompLit 350 Topics in Comparative Literature: (w/appropriate subtitle)

CompLit 360 Seminar in Literature and Cultural Experience: (w/appropriate subtitle)

CompLit 464 Seminar in Comparative Literary Criticism

Econ 328 Environmental Economics

Ed Pol 501 Advanced Community Organizing

Geog 309 Nationalities and Nations

Geog 400 Population, Environment, and Development

Geog 464 Environmental Problems

Geog 564 Urban Environmental Change and Social Justice

Global 361 Environment and Sustainability

InfoSt 120 Information Technology Ethics

InfoSt 661 Ethics and the Information Society

Italian 258 Contemporary Italian Society and Culture

Italian 357 Topics in Italian Culture in Translation: (w/appropriate subtitle)

JAMS 361 Media Ethics

JAMS 381 Honor's Seminar: "Controlling Dissent" subtitle

Jewish/Hebr St 261 Representing the Holocaust in Words and Images

Jewish 321 The Holocaust and the Politics of Memory

Jewish/Hebr St 368 Responses to the Holocaust

Jewish 449 Modern Jewish Thought

Philos 235 Philosophical Aspects of Feminism

Philos 237 Technology, Values, and Society

Philos 243 Moral Problems

Philos 244 Ethical Problems in Healthcare

Philos 337 Environmental Ethics

Philos 435 Existentialism

Philos 535 Philosophical Topics in Feminist Theory

Philos 542 Punishment and Responsibility

Philos 562 Special Topics in Ethics and Political Philosophy

Sociol 450 Environmental Sociology

Trnsltn 411 Ethics and Procedures in Interpreting

WGS 150 Multicultural America

WGS 200 Introduction to Women's and Gender Studies: Social Science Perspective

WGS 201 Introduction to Women's and Gender Studies: An Humanities Perspective

WGS 300 Gender and Spirituality

WGS 301 Queer Theory

WGS 302 Gendered Bodies
WGS 303 Feminist Activism and Movements
WGS 401 Global Feminism
WGS 410 Feminist Theory

C. Capstone (3 credits): The capstone requirement is fulfilled through a 500-600 level undergraduate seminar focused on issues of ethics, value, and/or social justice. An appropriate seminar will be offered in the Philosophy Department at least once per academic year.

Awarding the Certificate

Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree will receive the certificate upon completion of the program requirements.

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College of Letters and Science

French and Francophone Studies

Faculty Coordinator:

Sarah Davies Cordova, Professor of French, Department of French, Italian & Comp. Lit.

Christine Wolf, Advisor, Garland Hall 111, (414) 229-4846, cawolf@uwm.edu

The Certificate Program in French and Francophone Studies encourages participation in UWM's foreign study programs in France (Paris, Amboise, La Rochelle, among others) and Canada (Montreal and Quebec) and fosters interaction with students from French-speaking countries enrolled in UWM programs.

The certificate program is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

Students must achieve a grade point average of 2.750 or higher in the courses that satisfy the program requirements, and all such courses must be graded. They cannot be taken on a credit/no credit basis.

Certificate students who are majoring or minoring in French must take at least 9 credits outside the French curricular area.

Credits earned at other institutions in equivalent FFS courses will be accepted in partial fulfillment of the requirements. Students must obtain the approval of the certificate program committee to apply more than 9 credits from courses at other institutions to the UWM program.

Students currently enrolled at UWM who fulfilled some of the program's requirements prior to its approval may have their credits applied retroactively toward the certificate.

To obtain a certificate in FFS with language proficiency, students must complete, as part of or in addition to the certificate requirements, 9 credits in language, literature, or culture courses taught in French and numbered 300 or above.

Students enrolled in the program must complete at least 18 credits from the list of courses (see below) approved for the certificate, including:

I. 3 credits in a French language course numbered 200 or above;

II. 3 additional credits in humanities;

III. 6 credits in social sciences;

IV. 6 credits in courses dealing with Europe;

V. 6 credits in courses dealing with Francophone areas outside of Europe;

VI. Of the courses taken to complete these requirements, 9 credits must be in courses numbered 300 or above.

Exit Survey

All students are required to complete an exit survey upon completion of their required coursework. The assessment process allows certificate students to reflect on their experiences while providing important information to help improve the program.

The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

Please note: The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

Approved Courses

The following courses are approved to satisfy requirements for the French and Francophone Studies Certificate. The Roman numerals within the parentheses following each course title indicate the requirement(s), I through VI, for which the course counts. See the program coordinator for the most current list.

Africol 205	The Poetry of African, African-American, and Caribbean Writers (II, V)	3
Africol 418	Race, Class, and Gender in the Caribbean (III, V)	3
Anthro 213	American Indian Peoples of Wisconsin (III, V)	3
ArtHist 340	Baroque Art in Italy, France, and Spain (III, V)	3
ArtHist 444	The Arts of France in the Seventeenth Century (III, V)	3
ArtHist 465	Dada and Surrealist Art (III, IV)	3
French 145	Views of France: (subtitle) (II)	3
French 203	Third-Semester French (I, II)	3
French 204	Fourth-Semester French (I, II)	3
French 210	French Immersion: Intermediate (I, II)	3
French 289	Internship in French (II, V)	1-6
French 290	Intermediate French Electives: (subtitle) (II, V)	3-12
French 299	Ad Hoc: (with appropriate subtitle) (II, V)	1-6
French 303 (215)	Conversation and Composition: Intermediate Level (I)	3
French 310	Contemporary French Usage (I)	1-2
French 311	French for International Business/Professional Communication: Oral Emphasis (I)	3
French 324 (327)	Contemporary French Language and Culture (I, V)	3
French 325	Intensive Grammar and Usage (I)	3
French 332 (322)	Approaches to Poetry and Fiction (II, V)	3
French 349	Studies in French Culture: (subtitle) (II, V)	2-4
French 357	Literature of the French-Speaking World in Translation: (subtitle) (II, V)	3
French 361	French for International Business/Professional Communication: Writing Focus (II)	3
French 392	Phonetics (I, II)	3
French 415	Introduction to Translation: French to English (V)	3
French 427	Advanced Written Expression (I, II)	3
French 428	Castles, Cathedrals, and Common People: The Foundation of French Culture (II)	3
French 429	Royalty, Reason, and Revolution: The Golden Age of French Culture (II)	3
French 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries (II)	3
French 431	Seminar in Literature of the Francophone World: (subtitle) (II, V)	3
French 432	Seminar in French and Francophone Culture: (subtitle) (II, V)	3

French 433	Seminar in French Literature: (subtitle) (II, V)	3
French 449	Studies in French Culture: (subtitle) (II, V)	2-4
French 450	Institutions and Culture of Contemporary France (II)	3
French 451 (351)	Cinema of the French-Speaking World: (subtitle) (II, V)	3
French 457	Topics in French and Francophone Studies in Translation: (subtitle) (II, V)	3
French 465	Introduction to Translation: English to French (II, V)	3
French 489	Internship in French (II, V)	1-6
French 499	Ad Hoc: (with appropriate subtitle) (II, V)	1-6
French 510	Seminar on Masterpieces of Literature Written in French: (subtitle) (II, V)	3
Hist 205	Europe from the Italian Renaissance to the French Revolution (III, IV)	3
Hist 242	Women and Gender in Europe: 1750 to the Present (III, IV)	3
Hist 355	Modern and Contemporary France (III, IV)	3
Hist 382	Southeast Asia: The Age of Imperialism and Revolution Since 1800 (III, V)	3
Hist 386	Africa: The Age of Empires to 1880 (III, V)	3
Hist 387	Africa: Imperialism and Independence Since 1880 (III, V)	3
Hist 398 (501)	Honors Seminar: (with appropriate subtitle) (III, IV, V)	3
Honors 200	Honors Seminar: (with appropriate subtitle) (II, III, IV, V)	3
Philos 432	History of Modern Philosophy (II, IV)	3
Philos 435	Existentialism (II, IV)	3
Pol Sci 300	Western European Politics (III, IV)	3
Pol Sci 327	Politics of the Middle East and North Africa (III, V)	3
Pol Sci 339	European Integration (III, IV)	3

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Film Studies

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Gilberto Blasini, *Associate Professor of English, Director*

The College of Letters and Science offers a unique major and minor in Film Studies. This interdisciplinary program is founded on a broad, international perspective on film, television, popular culture, and media forms, texts, and global industries.

After completing the required introductory courses in history, formal analysis, and theory, film studies majors and minors explore a variety of advanced topics including world cinema, the internet and media culture, theories of mass culture, film and literature, writing on film and television, classical and contemporary film theory, television criticism and theory, film genres, and other special topic courses to suit their interests and concentrations. In addition to courses stressing cultural, historical, and theoretical approaches, students can take advantage of a range of resources and opportunities to explore and deepen their understanding of contemporary and historically significant film and television, and take part in major festivals and symposia, most recently devoted to contemporary Asian cinema, Latin American and Caribbean film and culture, and global media and technology.

The major in film studies provides students with critical skills and multiple perspectives on historical and contemporary media forms. It promotes the study of film and television in their aesthetic, social, cultural, political, and technological contexts and expands students' understanding of cinema and television as essential elements of our global cultural environment.

Course of Study: Major

A total of 36 credits is required for the major, at least 18 in upper-level courses (numbered 300 or above), with at least 15 of them taken in residence at UWM. Students must attain a 2.500 GPA on all UWM credits attempted for the major. In addition, the College requires that students attain a 2.500 GPA on all major credits attempted, including any transfer work. Students must complete the requirements specified below.

Core Courses (12 cr)

ArtHist/FilmStd 205	History of Film I: Development of an Art	3
English/FilmStd 290	Introduction to Film Studies	3
English/FilmStd 390	Classical Film Criticism and Theory (offered fall semester only)	3
FilmStd 690 (590)	Seminar in Contemporary Film Theory (satisfies L&S research requirement; offered spring semester only)	3

Two courses (6 cr) selected from the following:

ArtHist/English/FilmStd 111	Entertainment Arts: Film, Television, and the Internet	3
ArtHist/FilmStd 206	History of Film II: Development of an Art	3
CompLit 233	Literature and Film: (subtitle)	3

English/FilmStd 286	Writing About Film and Television	3
English/FilmStd 291	Introduction to Television Studies (if not selected above)	3
English/FilmStd 293	Literature and Media: (subtitle)	3
English/FilmStd 294	Game Culture	
English/FilmStd 295	Women and Film	3
Film 201	Introduction to Experimental Media Arts	3
Film 202	Current Topics in Media Arts Production: (subtitle)	3
Film 203	Media Workshop: (subtitle)	3
Film 220	16mm Filmmaking II	3
Film 222	Introduction to Digital Filmmaking	3
FilmStd 212	Intermediate Topics in Film Studies: (subtitle)	3
FilmStd 299	Ad Hoc: (subtitle)	1-6
Italian 229	Italian Cinema	3
JAMS 260	Contemporary Non-Fiction Media	3
A maximum of 3 credits in Film Department courses (FILM) may count toward the intermediate-level course requirement.		
Advanced-Level (300 and above) Electives (18 cr): Six courses (minimum 18 cr.) from the approved list. At least 6 cr. must be selected from courses focusing on world/global/international cinema, selected from English/FilmStd 316, FilmStd 412, or other appropriate courses approved by the Director. The following is a partial list. Other variable content courses with appropriate subtitles may be approved on a semester-by-semester basis to count toward the major. See the list published in the <i>Schedule of Classes</i> under affiliated Film Studies courses, the Film Studies website, or the program advisor.		
ArtHist/FilmStd 305	Film Analysis I: Method and Theory	3
ArtHist/FilmStd 306	Film Analysis II: Method and Theory	3
ArtHist/FilmStd 307	Film Directors: (subtitle)	3
ArtHist/FilmStd 308	Film Styles: (subtitle)	3
CompLit 360	Seminar in Literature and Cultural Experience: "New Chinese Cinemas" subtitle	3
CompLit 461	Film-Fiction Interaction: (subtitle)	H
English/FilmStd 312	Topics in Film Studies: (subtitle)	3
English/FilmStd 316	World Cinema: (subtitle)	3
English/FilmStd 320	Studies in Film Authorship: (subtitle)	3
English/FilmStd 329	Film and Literature	3
English/FilmStd 330	Film and Drama: (subtitle)	3
English/FilmStd 380	Media and Society: (subtitle)	3
English/FilmStd 383	Cinema and Genre: (subtitle)	3
English/FilmStd 391	Television Criticism and Theory	3
English/FilmStd 392	Contemporary Film Criticism and Theory: (subtitle)	3
English/FilmStd 394	Theories of Mass Culture: (subtitle)	3
English/FilmStd 395	Feminist Film Criticism and Theory: (subtitle)	3
FilmStd/Jewish 350	Global Jewish Film and Television: (subtitle)	3
FilmStd 412	Global Cinemas – Cinematic Practices in the Context of Globalization: (subtitle)	3
FilmStd 489	Upper-Level Internship	1-6
FilmStd 499	Ad Hoc: (subtitle)	1-6
FilmStd 669	Screening Sexuality: (subtitle)	3
FilmStd 699	Advanced Independent Study	1-6
French 451	Cinema of the French-Speaking World: (subtitle)	3
German 311	History of German Film: (subtitle)	3
Italian 629	Major Film Directors: (subtitle)	3
JAMS 560	History of Mass Media	3
JAMS 562	Media Studies and Culture	3
JAMS 620	Global Media Systems	3

A maximum of 3 credits in JAMS courses may count toward the advanced-level course requirement.

Honors in the Major

Film Studies majors who have maintained at least a 3.500 GPA in courses for the major, a 3.500 GPA on all advanced (300-level and above) courses in the major, and a 3.000 GPA overall on all UWM courses attempted may apply to the Film Studies undergraduate advisor to graduate with "Honors in the Major."

Course of Study: Minor

The minor in film studies is open to all students in any UWM undergraduate degree program. To complete the minor, students are required to take 18 credits of Film Studies Program approved courses. Nine credits must be taken at the intermediate (200-299) level and must include English/FilmStd 290, Introduction to Film Studies, and either ArtHist/FilmStd 205, History of Film I: Development of an Art or ArtHist/FilmStd 206, History of Film II: Development of an Art. The other intermediate course must be selected from the list above. The remaining credits must be selected from advanced-level (300 and above) courses on the approved electives list. Students must attain a 2.500 GPA in UWM credits attempted for the minor. In addition, the College requires that students attain a 2.500 GPA in all minor credits attempted, including any transfer work.

Additional courses that count toward the major are offered by the following departments in the College of Letters and Science:

Art History

English

Foreign Languages and Linguistics

French, Italian, and Comparative Literature

Journalism, Advertising, and Media Studies

Elective lower division film production courses are offered by the Peck School of the Arts' Film Department.

Courses

[\(FILMSTD\)](#)

Faculty

Gilberto Blasini, Assoc. Prof., PhD, English, Director
University of California, Los Angeles

Gloria Kim, Lect., PhD, English, Assistant Director and Undergraduate Advisor
University of Rochester

Tasha Oren, Assoc. Prof., PhD, English

University of Wisconsin-Madison

Peter Paik, Assoc. Prof., PhD, Comparative Literature
Cornell University

Jocelyn Szczepaniak-Gillece, Asst. Prof., PhD, English
Northwestern University

Tami Williams, Assoc. Prof., PhD, English
University of California, Los Angeles

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Food Studies

The College of Letters and Science cooperates with the College of Health Sciences to offer an undergraduate certificate in Food Studies. The certificate is designed to help students become proficient at:

1. Investigating and analyzing food systems and practices in a variety of cultural, social, and geographical settings;
2. Presenting their critical reflections on the forces that surround these systems and practices in both written and oral form;
3. Using information (statistical, textual, first-hand accounts, etc.) as a basis for formulating plans for personally and socially responsible action pertinent to local and global food and health; and
4. Becoming active in the community by participating in activities that develop responsible and sustainable practices, promote cross-cultural understanding, and help people in disparate professions or academic fields understand the relationships the study of food has with their own specializations.

The program is administered by an advisory committee composed of faculty members from both the College of Letters and Science and the College of Health Sciences. For additional information, see the [Food Studies Certificate](#) description in the [Inter-School/College Programs](#) section of this catalog.

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Forensic Sciences

The College of Letters and Science, through the Departments of Anthropology and Chemistry and Biochemistry, cooperates with the College of Health Sciences Clinical Laboratory Sciences Program and the Helen Bader School of Social Welfare Criminal Justice Program to offer studies in forensic sciences. The following three certificates are available:

1. Certificate in Death Investigation
2. Certificate in Forensic Sciences
3. Certificate in Forensic Toxicology

For additional information, see the [Forensic Sciences Certificate Program](#) description in the Inter-School/College Programs section of this catalog.

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Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies

Cary Gabriel Costello, *Associate Professor, Sociology, BOL 738, Costello@uwm.edu*

Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies investigates the historical and contemporary experiences of people traditionally neglected in scholarship and courses. It explores questions about sexuality as well as identity, community, representation, diversity, assimilation, and discrimination that are both academically and socially significant. Work in this innovative field includes material and methods from many disciplines: English and foreign languages, health professions, anthropology, art history, biology, communications, economics, fine arts, history, music, nursing, political science, psychology, sociology, social welfare, and women's and gender studies.

The LGBT Studies Certificate Program provides a curricular structure for undergraduates interested in the interdisciplinary study of same-gender relationships, gender identity and expressions, and shifts in meaning assigned to sex, gender, and sexuality more generally, in past and present cultures. It is designed for students majoring in any field who wish to complement their study of a discipline with an additional concentration in lesbian, gay, bisexual, and transgender studies. Any student in good standing at the University of Wisconsin-Milwaukee who is seeking a bachelor's degree or who previously received a bachelor's degree from UWM or any other accredited college or university is eligible to participate in the certificate program. The program also is open to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree students, individuals must meet regular University admission requirements.

The LGBT Studies Certificate requires completion of 18 credits in approved courses, with a minimum GPA of 2.500, as follows:

LGBT 200	Introduction to LGBT Studies	3
WGS 301	Queer Theory	3
LGBT 599	Selected Topics in LGBT Studies: (subtitle)	3
Electives: 9 credits of approved LGBT Studies curricular area or cross-listed coursework, of which 3 credits must be in courses numbered 300 or above.		

Students are limited to a maximum of 6 credits in independent study and no more than 9 credits from any one department. At least half the credits must be taken in residence at UWM, and no courses may be taken on a credit/no credit basis.

Credits earned at other institutions in equivalent LGBT courses, as well as credits earned and approved through study abroad, are accepted in partial fulfillment of the requirements. Students must obtain the approval of the certificate program committee to apply more than nine credits from courses at other institutions to the program requirements.

Approved Electives

The following courses are approved to count toward the LGBT Studies Certificate. Additional courses may be found each semester in the *Schedule of Classes*. In addition, students are encouraged to consult the Program Coordinator and to petition for the inclusion of relevant courses as appropriate.

Africol 344	Political Movements and Organizations in the Afroworld
Africol 418	Race, Class and Gender in the Caribbean
Anthro 400	Human Sociobiology
Anthro 445	Psychological Anthropology

BMS 201	Sexually Transmitted Diseases and AIDS
BMS/ComSDis/HCA/ KIN/OccThpy/TherRec 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective
Commun 401	Communication in Marital and Family Relationships
Commun 402	Gender and Communication
Commun 681	Seminar in Communication in a World of AIDS
Econ 248	Economics of Discrimination
Ed Pol 532	Male Identity: Education and Development
English 629	Seminar in Literature and Sexuality: (subtitle)
Ethnic 275	Queer Migrations
Hist 141	The Family and Sex Roles in the Past
Hist 241	Women and Gender in Europe: 1350 to 1750
Hist 242	Women and Gender in Europe: 1750 to the Present
Hist 243	History of Women in American Society
Hist 246	Homosexuality in History
Hist 373	Topics in Gender and History: (subtitle)
Hist 469	Manhood in America
JAMS 111	Gender and the Media
KIN 351	Sociological Aspects of Health and Human Movement
Linguis 212	Language and Gender
Nurs 101	Cultural Diversity in Health Care
Philos 235	Philosophical Aspects of Feminism
Pol Sci 412	Constitutional Law: Civil Rights and Liberties
Pol Sci 464	Women and the Law
Pol Sci 471	Problems in Law Studies: "Law and Sexuality" subtitle
Psych 319	Gay and Lesbian Psychology
Psych 320	Psychology of Women
Soc Wrk 100	Introduction to Human Services
Soc Wrk 250	Human Behavior and the Social Environment
Soc Wrk 581	Youth Work Practice
Soc Wrk 665	Cultural Diversity and Social Work
Sociol 250	Sex and Gender
Sociol 255	Sociology of Sexuality
Sociol 260	The Family and Intimate Relationships
Sociol 341	Sociology of Deviant Behavior
Sociol 440	Sociology of the Family
Sociol 444	Sociology of the Body
Sociol 475	Seminar in Feminist Social Theory
WGS 200	Introduction to Women's Studies: A Social Science Perspective
WGS 201	Introduction to Women's Studies: A Humanities Perspective
WGS 302	Gendered Bodies: (subtitle)
WGS 401	Global Feminism
WGS 489	Feminism in the City: Internship in Women's Studies
WGS 500	Advanced Social Science Seminar in Women's Studies: (subtitle)

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Global Studies

The College of Letters and Science, together with several of UWM's professional schools, offers a Bachelor of Arts in Global Studies. This degree is designed to combine the acquisition of leadership, management, and communication skills with an in-depth understanding of global issues. Students in this program will be uniquely prepared for careers in an increasingly integrated world. The program is administered through the Center for International Education.

For additional information on the Global Studies degree, see the [Global Studies Degree Program](#) description in the [Inter-School/College Programs](#) section of this catalog.

The College of Letters and Science offers a minor in Global Studies.

Course of Study: Minor in Global Studies

The Global Studies Minor consists of at least 18 credits, distributed as follows:

Global Studies Core Courses

6 credits from the following course list are required. It is recommended that the core coursework be completed prior to Global Content coursework.

Global 101 Introduction to Global Studies I: People and Politics (SS)

Global 201 Introduction to Global Studies II: Economics and the Environment (SS)

Global 202 Introduction to Global Studies III: Globalization and Information Technology (SS)

Foreign Language

At least four university-level semesters of a single foreign language are required. Retrocredits may be used to fulfill this requirement. (Note that a placement test must be taken and at least one 3-credit, university-level foreign language course must be completed successfully in order to earn retrocredits, according to foreign language departmental requirements.)

Study Abroad

At least 3 credits of an overseas academic experience, or an internship outside of the U.S. approved by a Global Studies advisor, are required.

Global Content Electives

6 credits are required, chosen from the electives list below.

Distribution of Credits

A minimum of 9 credits for the minor must be taken at the 300 level or above. These credits can include foreign language or additional study abroad coursework. At least 9 credits must be completed in residence at UWM. Credits earned in a UWM study abroad or exchange program count toward this requirement. No more than 9 credits from another major, minor, or certificate program may be counted toward the Global Studies minor.

Graduation Requirements

The College requires that students achieve at least a 2.500 cumulative GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including transfer work. The program also requires students to complete an exit survey prior to graduation. See the Global Studies information in the Inter-School/College section of the catalog for details on completion of the exit survey.

Approved Global Content Electives

Additional electives may be approved by a Global Studies advisor.

Africol 232 Survey of African Societies and Cultures

Africol 311 African Religious Thought and Social Organizations

Africol 320 Black Cultures in Latin America and the Caribbean

Africol 329 Problems and Prospects of U.S./Africa Economic Relations

Africol 565 Selected Texts/Topics in Africology: (with appropriate subtitle)

AIS 362 System Failure: Globalization and Language Extinction (jointly offered with Anthro and Global)

Anthro 250 Women's Roles in Cross-Cultural Perspective

Anthro 3xx "Peoples and Cultures" series

Anthro 349 Seminar in Ethnography and Cultural Processes

Anthro 355 Globalization, Culture, and the Environment

Anthro 362 System Failure: Globalization and Language Extinction (jointly offered with AIS and Global)

Anthro 443 Medicine and Pharmaceuticals in the Global Age (jointly offered with Global)

Anthro 543 Cross-Cultural Study of Religion

Commun 350 Intercultural Communication

Commun 450 Advanced Intercultural Communication

Commun 550 International and Global Communication

Commun 631 Current Topics in Interpersonal Communication/Conflict Management: (with appropriate subtitle)

Commun 655 Cultural Training and Adjustment

Commun 675 Communication in International Mediation and Peacebuilding

CES 210 Introduction to Conservation and Environmental Science

CompLit 230 Literature and Society: (with appropriate subtitle)

CompLit 360 Seminar in Literature and Cultural Experience: (with appropriate subtitle)

Crm Jst 291 Current Issues in Criminal Justice: "International Terrorism" subtitle

Econ 256 Emerging Markets and Comparative Systems

Econ 351 Introduction to International Economic Relations

Econ 353 Economic Development

Econ 454 International Trade

Econ 455 International Finance

English 316 World Cinema: (subtitle)

Ethnic 250 Selected Topics in Ethnic Studies (with appropriate subtitle)

FilmStd 350 Global Jewish Film and Television: (subtitle) (jointly offered with Jewish)

FilmStd 412 Global Cinemas – Cinematic Practices in the Context of Globalization: (subtitle)

French 421 Undergraduate Seminar in French Studies (with appropriate subtitle)

French 426 Growing Up French

French 432 Seminar in French and Francophone Cultures: (with appropriate subtitle)

French 450 Institutions and Cultures of Contemporary France

Geog 213 Geography of Asia

Geog 225 The Language of Maps

Geog 309 Nationalities and Nations of the World

Geog 330 Europe: East and West
Geog 350 Conservation of Natural Resources
Geog 400 Geography of Population
Geog 462 Cultural Geography of Latin America
Geog 464 Environmental Problems
Geog 470 Geography of South Asia
Geog 540 Globalization and the City

German 334 Introduction to German Literature and Culture
German 391 German Literature/Culture in Relation to Social and Historical Issues: (with appropriate subtitle)
German 410 German Cultural History
German 411 Modern-Day Germany
German 415 Topics in German Civilization: (with appropriate subtitle)

Global 311 Contexts for Global Management
Global 321 The Global City in History
Global 351 Language, Media, and Social Practice
Global 362 System Failure: Globalization and Language Extinction (jointly offered with AIS and Anthro)
Global 371 Rethinking Global Security
Global 421 Social Justice in the Global City
Global 443 Medicine and Pharmaceuticals in the Global Age (jointly offered with Anthro)
Global 447 The Global Politics of Human Rights
Global 448 Intellectual Property in the Global Information Economy
Global 451 Access, Security, and Intercultural Contexts in Global Communication
Global 471 Strategies for Realizing Security
Global 541 (411) Cross-Cultural Management
Global 551 Global Communications Capstone: Future Trends
Global 571 Global Security Capstone: Future Trends
Global 699 Independent Study (1-3 cr)*

* With approval of Global Studies advisor.

Hebr St 254 Studies in Hebrew Culture: (with appropriate subtitle)

Hist 282 The Modern Middle East in the Nineteenth and Twentieth Centuries
Hist 283 Arab-Israeli Relations: The Search for Peace
Hist 287 The Vietnam War
Hist 345 The Modern Balkans: Nationalism, War, and Democracy
Hist 372 Topics in Global History: (with appropriate subtitle)
Hist 378 Revolution in China
Hist 382 Southeast Asia: The Age of Imperialism and Revolution Since 1800
Hist 392 The History of Southern Africa
Hist 393 History of Mexico
Hist 395 History of Japan Since 1600
Hist 434 The United States as a World Power in the 20th Century

Italian 229 Italian Cinema
Italian 245 Italian Fictions: (subtitle)
Italian 258 Contemporary Italian Society and Culture
Italian 265 Italian Women's Studies: (with appropriate subtitle)
Italian 312 Contemporary Italian Language and Culture
Italian 357 Topics in Italian Culture in Translation: (with appropriate subtitle)
Italian 457 Topics in Italian Literature and Culture in Translation: (with appropriate subtitle)
Italian 537 Topics in Italian Culture in Translation: (with appropriate subtitle)

Italian 629 Major Film Directors: (with appropriate subtitle)

JAMS 562 Media Studies and Culture

JAMS 620 Global Media Systems

PeaceSt 201 Introduction to Peace Studies and Conflict Resolution

Philos 204 Introduction to Asian Religions

Polish 236 Polish Culture in Its Historical Setting

Pol Sci 300 Western European Politics

Pol Sci 302 Politics of Eastern Europe

Pol Sci 310 Russian and Post-Soviet Politics

Pol Sci 316 International Law

Pol Sci 325 Latin American Politics

Pol Sci 327 Politics of the Middle East and North Africa

Pol Sci 330 Politics of International Economic Relations

Pol Sci 337 International Organizations and the UN (or UN Summer Seminar)

Pol Sci 339 European Integration

Pol Sci 340 Politics of Nuclear Weapons

Pol Sci 343 Asian International Relations

Pol Sci 346 U.S.-Latin American Relations

Pol Sci 359 Problems of American Foreign Policy

Pol Sci 362 Ethics and International Relations

Pol Sci 365 Theories and Methods in International Politics

Pol Sci 370 International Conflict

Pol Sci 371 Nationalism and Ethnic Conflict

Pol Sci 423 Conduct of American Foreign Affairs

Portugs 225 Understanding Brazil: (with appropriate subtitle)

Portugs 360 Brazilian Culture

Russian 225 Contemporary Slavic Civilization

Russian 245 Russian Life and Culture

Sociol 235 Social Change in the Global Economy

Sociol 290 International Migration: (with appropriate subtitle)

Sociol 452 Social Networks in Global Commerce

Spanish 225 Understanding the Hispanic World

Spanish 361 Spanish Culture

Spanish 363 Spanish-American Culture

Spanish 461 (365) Topics in Hispanic Culture: (with appropriate subtitle)

WGS 401 Global Feminisms

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German Studies

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The German Studies Certificate Program is designed to offer UWM students the opportunity to experience firsthand contemporary German life and culture by integrating a semester of study at the *Justus Liebig Universität* in Giessen with their coursework at UWM. This certificate program is unique in its requirement of a semester study abroad. While at *Justus Liebig Universität*, students take a sequence of courses that deal with the history and culture of Germany, completing 15 of the 27 credits required by the certificate program. Upon completion of the requirements, students are awarded a certificate, which evidences a concentration in coursework related to the culture, civilization, and language of Germany. The courses taken in Giessen provide the student with a broad exposure to social and cultural issues in German life and society. The program will be of particular interest to students who major in German, music, art, art history, literature, history, international studies, political science, and business.

Prior to the required semester abroad, students must have sophomore standing and demonstrate intermediate proficiency in German (as described in the ACTFL Provisional Proficiency Guidelines) by a written and oral test or by transcript evidence of successful completion of fourth-semester German at UWM. During their semester of study in Giessen, students pay UWM tuition and earn UWM credits. Their programs of study are overseen by a select group of faculty members of the *Justus Liebig Universität*.

To earn the certificate, students must complete satisfactorily a minimum of 27 credits in courses beyond prerequisite language courses with an average grade of B or better. Students propose their individual programs of study from the list of required and elective courses and submit their proposals to the German Studies Certificate Committee for approval.

Required Core Courses: 6 cr.

The following two courses must be completed prior to the semester of study in Giessen:

German 111	German Life and Civilization: Part I
German 112	German Life and Civilization: Part II

Electives: Minimum of 6 cr.

At least two courses must be completed from a list of approved electives. The list is updated periodically by the German Studies Certificate Committee. Courses from this list may be taken before or after the semester in Giessen.

ArtHist 366	German Painting 1800-1933
Geog 235	West Europe
German 360	German for the Global World
German 361	German for International Business Communication
German 410	German Cultural History
German 411	Modern-Day Germany
German 415	Topics in German Civilization: (Subtitle)

Hist 362	Germany: The Rise to World Power, 1815-1918
Hist 363	Germany: Hitler and the Nazi Dictatorship
Philos 433	Nineteenth-Century Philosophers
Pol Sci 333	Seminar in Comparative Politics: (Subtitle)
Pol Sci 334	German Politics and the New Europe

Courses at the *Justus Liebig Universität*: 15 cr.

1. Intensive German Workshop, 3 cr. This course is required and is offered in Giessen prior to the start of the *Giessen Sommersemester* (second semester). It runs six weeks and is taught by *JLU* faculty and tutors.
2. During the *JLU Sommersemester*, students register for *JLU* courses in the following areas to earn a total of 9-12 UWM credits: German a) art; b) literature; c) history; d) politics; e) society and social organizations; and f) geography.
3. During their period of study in Giessen, students may earn 3 of the required 15 credits in an independent study project involving a substantial written report specifically designed to relate the Giessen studies to the student's academic major at UWM.
4. Student study plans during the semester in Giessen require the approval of the German Studies Certificate Committee.

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Hmong Diaspora Studies

Chia Vang, Associate Professor, History, Coordinator, Holton Hall 324, (414) 229-1101, vangcy@uwm.edu

The Hmong Diaspora Studies Certificate Program provides undergraduate students with a multidisciplinary perspective on and knowledge of Hmong history, culture, and contemporary life. The scope of the program extends beyond U.S. borders. While the vast majority of people of Hmong ethnicity today live in southern China, pockets of Hmong people can be found in other parts of Asia, Europe, Oceania, and North and South America. As there is no Hmong nation state, people of Hmong ethnicity exist as minorities in all areas of the world. Their lives differ significantly depending on the social, cultural, economic, and political contexts of specific locations. In line with UWM's commitment to training global citizens, the Hmong Diaspora Studies Program enables students to compare and contrast the experiences of people of Hmong ethnicity throughout the world.

The Hmong Diaspora Studies Certificate is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted as a non-degree student, the individual must meet regular UWM admission requirements.

Program Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits in approved Hmong diaspora studies courses as indicated below. Courses for the certificate may not be taken on a credit/no credit basis.

1. Ethnic/Hmong 265 Hmong Americans: History, Culture, and Contemporary Life
2. 1 semester of Hmong language and/or literacy
3. 1 semester of Southeast Asian history selected from the following:

Hist 287	The Vietnam War
Hist 382	Southeast Asia: The Age of Imperialism and Revolution Since 1880
Hist 402	Topics in Asian History: (with appropriate subtitle; consult program coordinator)

4. Nine additional credits selected from the list of approved courses, at least 6 of which must be selected from courses with a primary focus on Hmong cultural groups.

Of the 18 required credits, 12 must be taken in the College of Letters and Science, at least six of them at the 300 level or above. No more than nine credits from any one curricular area may count toward the certificate. Twelve of the 18 required credits must be earned in residence at UWM. Of these 12 credits, nine must be taken at the 300 level or above. A maximum of six credits in independent study may count toward program requirements.

Approved Elective Courses

Primary Focus on Hmong Cultural Groups

English 192	First-Year Seminar: "Hmong American Life Stories" subtitle
English 277	Introduction to Ethnic Minority Literature: "Hmong-American Literature" subtitle

Ethnic 265	Hmong Americans: History, Culture, and Contemporary Life
Ethnic 350	Advanced Topics in Comparative Ethnic Studies: "Hmong Diasporic Communities" subtitle
Ethnic 299	Ad Hoc: (with Hmong-related subtitle)
Ethnic 499	Ad Hoc: (with Hmong-related subtitle)
Ethnic 699	Advanced Independent Study
FLL 103	First Semester of an Uncommonly Taught Language: "Hmong" subtitle
FLL 104	Second Semester of an Uncommonly Taught Language: "Hmong" subtitle
FLL 107	First Semester Hmong Literacy
FLL 108	Second Semester Hmong Literacy
FLL 203	Third Semester of an Uncommonly Taught Language: "Hmong" subtitle
FLL 204	Fourth Semester of an Uncommonly Taught Language: "Hmong" subtitle
Hist 297	Study Abroad: "Exploring Laos – History and Culture" subtitle
Hist 373	Study Abroad: "Exploring Laos – History and Culture" subtitle
Hmong xxx	All courses in the Hmong curricular area

Secondary Focus on Hmong Cultural Groups

Anthro 150*	Multicultural America
Anthro 250	Women's Roles in Cross-Cultural Perspective
Anthro 323	Peoples and Cultures of Southeast Asia
ArtHist 386	Art, Ritual, and Ethnicity in China
English 150*	Multicultural America
English 192	First-Year Seminar: "Southeast Asian American Life Stories" subtitle
Ethnic 102	Transnational Migrations: Asian-, Arab-, Euro-American, and Latino Identity
Ethnic 250	Selected Topics in Ethnic Studies: (with appropriate subtitle)
Hist 150*	Multicultural America
Hist 269	Asian Americans in Historical Perspective
Hist 287	The Vietnam War (if not selected above)
Hist 372	Topics in Global History: (with appropriate subtitle)
Hist 382	Southeast Asia: The Age of Imperialism and Revolution Since 1880 (if not selected above)
Hist 402	Topics in Asian History: (with appropriate subtitle) (if not selected above)
Hist 436	Immigrant America Since 1880
Sociol 150*	Multicultural America
WGS 150*	Multicultural America

** Students may count credits in just one of these courses toward the certificate.*

Independent study courses focusing on Hmong cultural groups may be accepted with the approval of the certificate program committee. Other courses not on this list but relevant to the study of Hmong people in the U.S. and other parts of the world may be accepted with the approval of the certificate program committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements with the approval of the certificate program committee. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the creation of the program may have their credits applied retroactively to the certificate program.

Awarding the Certificate

Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and non-degree students will receive the certificate upon completion of the program requirements.

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Latin American and Caribbean Studies

Jean Hudson, *Associate Professor of Anthropology , Interim Coordinator*
Alida Cardós Whaley, *Advisor NWQ B2484, (414) 229-4703, alida@uwm.edu*

The Certificate in Latin American and Caribbean Studies is open to all students seeking a bachelor's degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the certificate program are awarded the certificate at the time of graduation. Students who already possess the bachelor's degree and non-degree students receive the certificate upon completion of the program requirements.

Requirements

Proficiency in a language (other than English) widely spoken in Latin America or the Caribbean is required. The Center for Latin American and Caribbean Studies will determine which languages will satisfy the certificate. This requirement may be fulfilled by either: 1) successful completion (with a grade of C or above) of any upper-level (numbered 300 or above) course in the target language; or 2) successful completion of a language proficiency examination. Exceptions to this requirement must be approved by the LACS Certificate Committee.

Students must complete 21 credits in Latin American and Caribbean content courses, 12 of which must be at the 300 level or above. The 21 credits include one required course, LACS 101: Introduction to Latin American and Caribbean Studies (3 cr). Students must take courses in at least two curricular areas, although three areas are recommended. No more than 12 credits in any one curricular area may be counted towards the certificate program, and no more than 3 credits may be in independent study courses. In addition to any Latin American content courses taken in a semester-length, UWM-approved study abroad program in Latin America or the Caribbean, an additional three credits for participating also may be counted, if courses are taken within an immersion setting (as determined by the Center for Latin American and Caribbean Studies). A 2.750 GPA or better must be achieved in all UWM coursework and in all certificate credits. At least 12 credits of the Latin American/Caribbean content courses must be completed at UWM.

Courses that meet the certificate requirements include, but are not limited to, those in the following list. For the most current list of Latin American and Caribbean content courses, see the Center for Latin American and Caribbean Studies, NWQ B 2484, or log on to www4.uwm.edu/clacs.

Africology

205 The Poetry of African, African-American, and Caribbean Writers

299 Ad Hoc: "Sex in the Caribbean" subtitle

311 African Religious Thought and Social Organization

320 Black Culture in Latin America and the Caribbean

334 Survey of Black American and Black Brazilian Societies

414 The Black Woman in America, Africa, and the Caribbean

418 Race, Class, and Gender in the Caribbean

Anthropology

225 The Aztec Empire

309 Archaeology of Central and South America

310 Archaeology of Middle America

311 The World of the Ancient Maya

315 Peoples and Cultures of Mexico and Central America

316 Peoples and Cultures of South America

317 Peoples and Cultures of Brazil

318 Peoples and Cultures of the Caribbean

328 Comparative Studies of Music, Race, and Gender in Nationalism

Art History

104 African, New World, and Oceanic Art and Architecture

251 Introduction to the Art and Architecture of Latin America

367 Latin American Modernisms

372 Pre-Columbian Art of South America

373 Pre-Columbian Art of Mesoamerica

375 Art of the Aztec Empire

474 Mayan Art

499 Ad Hoc: "Modern Art of Latin America" subtitle

Atmospheric Sciences

297 Study Abroad: "Mexico - Air Pollution and Ancient Cultures" subtitle

497 Study Abroad: "Mexico - Air Pollution and Ancient Cultures" subtitle

Biological Sciences

297 Study Abroad: "Ecology of Tropical Streams in Costa Rica" subtitle

497 Study Abroad: "Ecology of Tropical Streams in Costa Rica" subtitle

Comparative Literature

135 Experiencing Literature in the 21st Century: "Women and War in Latin America and the Caribbean" subtitle

230 Literature and Society: "Cowboys, Gauchos, and Other Narratives of the Frontier" subtitle

232 Literature and Politics: "Gender and the Historical Novel"; "Women and War" subtitles

350 Topics in Comparative Literature: "Literary and Artistic Perspectives on Prostitution" subtitle

360 Seminar in Literature and Cultural Experience: "Narratives in Torture" subtitle

365 Literatures and Cultures of the Americas: "Comparative Caribbeans" subtitle

Conservation and Environmental Science

297 Study Abroad: "Ecology of Tropical Streams in Costa Rica" subtitle

497 Study Abroad: "Ecology of Tropical Streams in Costa Rica" subtitle

Dance

370 World Movement Traditions: "Argentinian Tango" subtitle

Economics

193 First-Year Seminar: "Prosperity, Poverty, and Economic Justice" subtitle

353 Economic Development

English

297 Study Abroad: "Mexico and Cuba - Comparative Globalization" subtitle

316 World Cinema: "Caribbean Cinema"; "Latin American Cinema"; "Mexican Cinema"; "Latina and Latin American Women Directors"; "Mexican and Cuban Cinema" subtitles

320 Studies in Film Authorship: "Cuban and Mexican Filmmakers" subtitle

366 Non-Fiction Prose: "Caribbean Nonfiction" subtitle

463 Writers in African-American Literature: "Caribbean Literature" subtitle

497 Study Abroad: "Mexico and Cuba - Comparative Globalization" subtitle

625 Seminar in Literary History: "Caribbean Literary History" subtitle

Film Studies

316 World Cinema: "Caribbean Cinema"; "Latin American Cinema"; "Latina and Latin American Women Directors"; "Mexican Cinema"; "Mexican and Cuban Cinema" subtitles

Geography

297 Study Abroad: "Urban Environmental Changes in Guatemala" subtitle

421 Geography of Latin America

422 Geography of South America

462 Cultural Geography of Latin America

497 Study Abroad: "Urban Environmental Changes in Guatemala" subtitle

654 Tropical Field Course (Belize; Panama)

History

180 Latin American Society and Culture

388 Latin America: The Colonial Period

389 Latin America: The National Period

390 Latin America in the Age of Revolution, 1898 to the Present

391 History of the International Relations of Latin America

393 History of Mexico

400 Topics in Latin American and Caribbean History: (all subtitles)

Latin American and Caribbean Studies

101 Introduction to Latin American and Caribbean Studies

Political Science

320 Politics of Developing Countries

325 Latin American Politics

326 Brazilian Politics and Society

346 U.S.-Latin American Relations

373 Societal Change in Contemporary Latin America: (all subtitles)

Portuguese

103 First-Semester Portuguese

104 Second-Semester Portuguese

110 Accelerated Portuguese

192 First-Year Seminar: "History of Brazil" subtitle

203 Third-Semester Portuguese

204 Fourth-Semester Portuguese

225 Understanding Brazil: (subtitle)

297 Study Abroad: "The African Presence in Brazil" subtitle

299 Ad Hoc: "Accelerated Portuguese" subtitle
310 Composition and Conversation
360 Brazilian Culture: (subtitle)
380 Luso-Brazilian Literature in Translation: (subtitle)
457 Seminar in Brazilian Literature
497 Study Abroad: "The African Presence in Brazil" subtitle
499 Ad Hoc: "Brazilian History and Culture" subtitle

Spanish

192 First-Year Seminar: "Virgins/Whores - Myths, Legends, and Women of the Hispanic World"; "Latin American Women Writers and Feminism" subtitles
203 Third-Semester Spanish
204 Fourth-Semester Spanish
210 Intensive Course in Spoken Spanish III
211 Intensive Course in Spoken Spanish IV
308 Advanced Writing and Reading
315 Spanish Immersion Experience
318 Advanced Speaking and Listening
319 Advanced Speaking and Listening for Heritage Speakers
332 Business and Legal Spanish
338 Spanish for Health Professionals
341 Introduction to Hispanic Linguistics
347 Introduction to Translation: Spanish to English
348 Introduction to Translation: English to Spanish
349 Introduction to Interpreting
350 Introduction to Literary Analysis
383 Spanish American Literature in Translation: (subtitle)
391 Social and Historical Issues in the Hispanic World: "Latin America - Past and Present" subtitle
441 History and Dialectics of the Spanish Language
442 Business and Legal Spanish II

443 Spanish Phonetics and Phonology

444 Spanish Syntax and Morphology

446 Hispanic Sociolinguistics

447 Seminar in Advanced Translation: Spanish to English

448 Seminar in Advanced Translation: English to Spanish

461 (365) Topics in Hispanic Culture: "The Spanish Renaissance and Its Cultures, 16th and 17th Centuries"; "Exotic Stories from the Hispanic World - The Pleasure of Words" subtitles

470 Survey of Hispanic Literature and Civilization

472 Survey of Spanish-American Literature and Civilization

507 Seminar on Spanish-American Literature: (all subtitles)

571 (453) Seminar on Spanish-American Colonial Literature and Civilization: (all subtitles)

575 (455) Seminar on Eighteenth- and Nineteenth-Century Spanish-American Literature and Civilization: (all subtitles)

577 (457) Seminar on Modern Spanish-American Literature and Civilization: (all subtitles)

Urban Planning

692 Special Topics in Urban Planning: "Latino Cities" subtitle

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Latin American, Caribbean, and U.S. Latin@ Studies

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- [Faculty](#)

Nancy Bird-Soto, *Associate Professor of Spanish*, and Raoul Deal, *Senior Lecturer, Cultures & Communities*, Co-coordinators

Alida Cardós Whaley, Advisor, Northwest Quadrant, Bldg. B. Rm. 2484, (414) 229-4703, alida@uwm.edu

Note: *The @ ending ("a" at the center of "o") offers a simultaneous presentation of both the feminine and masculine word endings of Latina and Latino and allows the reader or speaker to choose one, both, or a variation of the gendered forms.*

The curriculum of *Latin American, Caribbean, and U.S. Latin@ Studies* is designed to ensure that students acquire foundational knowledge of U.S. Latin@, Latin American, and Caribbean history and cultures; develop analytical and critical thinking skills; learn the comparative approach to studies of cultures; and gain insight into Latin@, Latin American, and Caribbean cultures from a variety of perspectives. Students take introductory courses in Latin American/Caribbean and U.S. Latin@ Studies and two integrated courses that focus on similarities and differences among people of both areas. In addition, students choose their elective courses from many different departments, and they must select at least two courses each from clusters 1 and 2.

1. Artistic Expression
2. Social and Natural Sciences
3. Language and Communication Skills

A final research project will serve as a culminating experience in the major. Students will learn and demonstrate research skills in examining an issue or a problem that is relevant to the major.

Course of Study: Major

Students are required to complete a minimum of 33 credits in the major, at least 15 of which must be taken at the advanced level (300 and above) in residence at UWM. The College requires that all students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. The following are required:

Core Courses (15 credits)

Both of the following introductory courses:

LACS 101	Introduction to Latin American and Caribbean Studies	3
Latino 101	Introduction to Latino Studies	3

Two of the following integrative courses with both Latin@ and Latin American-Caribbean content:

CompLit 365	Literatures and Cultures of the Americas: (subtitle)	
CurrIns 550	Using Children's Literature to Explore Latin America/Latino Cultural Heritage	
English 316	World Cinemas: (with appropriate subtitle)	
English 394	Theories of Mass Culture: "Latino and Latin American Popular Culture" subtitle	
Hist 372	Topics in Global History: (with appropriate subtitle)	
LACUSL 200	Selected Topics in Latin American, Caribbean, and U.S. Latin@ Studies: (subtitle)	
LACUSL 300	Advanced Topics in Latin American, Caribbean, and U.S. Latin@ Studies: (subtitle)	

LACUSL/Theatre 324	Theatre in the Americas: Latin American, Caribbean, and Latin@ Theatre
LACUSL 699	Independent Latin American, Caribbean, and U.S. Latin@ Integrated Studies
Latino/Sociol 423	Latino Immigration and Incorporation: (subtitle)

One of the following capstone courses:

LACUSL 680	Senior Research Project (3 cr)
LACUSL 699	Advanced Independent Study

In semesters when LACUSL 680 is not offered, students may complete the capstone requirement by taking LACUSL 699, Advanced Independent Study, with an appropriate faculty member from the LACUSL associated faculty. L&S guidelines require that the student: 1) conduct independent research; 2) evaluate and integrate prior research; and 3) present the findings in a professional manner and context; and that the sponsoring faculty member provide clear guidelines on how performance will be evaluated. The student also may substitute an existing course in one of the curricular codes represented by the major's electives, provided that it satisfies the L&S research requirement for that major and provided that the major research project undertaken as part of that course has a distinctly LACUSL topic.

Electives (18 credits). Electives may be selected from integrated courses as well as from the three course clusters listed below. Students must take at least two courses from Cluster 1, at least two from Cluster 2, and up to two from Cluster 3. At least three different departmental curricular codes must be represented among the electives. A course taken to satisfy the Integrative requirement may not count as an elective. A maximum of 3 credits in an internship (LACUSL 289 or LACUSL 489) may count as an elective for the major.

1. Artistic Expression

ArtHist 104	African, New World, and Oceanic Art and Architecture
ArtHist 251	Introduction to the Art and Architecture of Latin America
ArtHist 367	Latin American Modernisms
ArtHist 373	Pre-Columbian Art of Mesoamerica
ArtHist 375	Art of the Aztec Empire
CompLit 365	Literatures and Cultures of the Americas: (subtitle)
CurrIns 550	Using Children's Literature to Explore Latin American/Latino Cultural Heritage
Dance 414	Dance History: African Dance Through the Diaspora
English 279	Introduction to U.S. Latino/a Literature
English 316	World Cinemas: (with appropriate subtitle)
English 374	Survey of U.S. Latino/a Literature
English 394	Theories of Mass Culture: (with appropriate subtitle)
English 523	Studies in U.S. Latino/a Literature
LACUSL/Theatre 324	Theatre in the Americas: Latin American, Caribbean, and Latin@ Theatre
Portugs 225	Understanding Brazil
Portugs 360	Brazilian Culture: (subtitle)
Portugs 380	Luso-Brazilian Literature in Translation
Portugs 457	Seminar in Brazilian Literature
Spanish 371	Introduction to Latino Literature in English
Spanish 373	Topics in Latino Literature in English: (subtitle)
Spanish 472	Survey of Spanish-American Literature and Civilization
Spanish 507	Seminar on Spanish-American Literature: (subtitle)
Spanish 575	Seminar on 18th- and 19th-Century Spanish-American Literature and Civilization: (with appropriate subtitle)
Spanish 577	Seminar on Modern Spanish-American Literature and Civilization: (with appropriate subtitle)

2. Social and Natural Sciences

Africol 320	Black Cultures in Latin America and the Caribbean
Africol 334	Survey of Black American and Black Brazilian Societies
Africol 414	The Black Woman in America, Africa, and the Caribbean
Africol 418	Race, Class, and Gender in the Caribbean
Anthro 225	The Aztec Empire
Anthro 309	Archaeology of Central and South America
Anthro 310	Archaeology of Middle America

Anthro 311	The World of the Ancient Maya
Anthro 315	Peoples and Cultures of Mexico and Central America
Anthro 497	Study Abroad Peru: Peru Past and Present, Archaeological Perspectives
Atm Sci 297/497	Study Abroad Mexico: Air Pollution and Ancient Cultures
Bio Sci 297/497	Study Abroad Panama: Tropical Biology
Econ 353	Economic Development
Ed Pol 212	Educational Issues in Spanish-Speaking Communities
Ed Pol 460	The Chicano Experience
Ed Pol 560	Education and Hispanics
Ethnic 102	Transnational Migrations: Asian-, Arab-, Euro-American, and Latino Identity
Ethnic 245	Indians, Artists, and Conquistadores: The U.S. Southwest
Geog 421	Geography of Latin America
Geog 482	Cultural Geography of Latin America
Hist 180	Latin American Society and Culture
Hist 267	History of Latinos in the United States
Hist 290	Topics in Global History: "Ethnicity and Media: U.S., Latin America, and Caribbean" subtitle
Hist 372	Topics in Global History: "Latino and Latin American/Caribbean Cities" (previously offered as UrbPlan 692); "History of Media" subtitles
Hist 393	History of Mexico
Hist 400	Topics in Latin American and Caribbean History: (with appropriate subtitle)
Hist 404	Topics in American History: "Tale of Two Cities – Milwaukee and Los Angeles" subtitle
LACUSL 200	Selected Topics in Latin American, Caribbean, and U.S. Latin@ Studies: (subtitle)
LACUSL 300	Advanced Topics in Latin American, Caribbean, and U.S. Latin@ Studies: (subtitle)
Pol Sci 325	Latin American Politics
Pol Sci 326	Brazilian Politics and Society
Pol Sci 346	U.S.-Latin American Relations
Sociol 323	Perspectives on Latino Communities
3. Language and Communication Skills. Students are allowed to count up to two courses from this cluster. Courses from this cluster are not required.	
Anthro/Linguis 570	Issues in Bilingualism
Commun 350	Intercultural Communication
Commun 550	International and Global Communication
Commun 675	Communication in International Mediation and Peacebuilding
CurrIns 542	History and Politics of Second Language Education
English 404	Language, Power, and Identity
Ethnic 200	Racial Minorities in the U.S.
French 303	Conversation and Composition: Intermediate Level
French 311	French for International Business/Professional Communication: Oral Emphasis
French 325	Intensive Grammar and Usage
French 361	French for International Business/Professional Communication: Writing Focus
French 401	French for Reading Knowledge
JAMS 450	Race and Ethnicity in the Media
Linguis 420	Introduction to Second Language Acquisition
Portugs 310	Composition and Conversation
Portugs 446	The Portuguese-Speaking World: Sociolinguistic Perspectives
Sociol 324	Comparative Race Relations
Spanish 120	Spanish for Health Professionals I
Spanish 121	Spanish for the Health and Social Services
Spanish 308	Advanced Writing and Reading
Spanish 318	Advanced Speaking and Listening
Spanish 319	Advanced Speaking and Listening for Heritage Speakers

Spanish 332	Business and Legal Spanish I
Spanish 338	Spanish for Health Professionals I
Spanish 341	Introduction to Hispanic Linguistics
Spanish 347	Introduction to Translation: Spanish to English
Spanish 348	Introduction to Translation: English to Spanish
Spanish349	Introduction to Interpreting
Spanish 350	Introduction of Literary Analysis
Spanish 388	Health Issues in the Hispanic World
Spanish 441	History and Dialects of the Spanish Language
Spanish 442	Business and Legal Spanish II
Spanish 446	Hispanic Sociolinguistics
Spanish 449	Advanced Court Interpreting
Spanish 595	Spanish for Reading Knowledge

A 3-credit internship course may count toward elective credit:

LACS 289	Internship, Lower Division
LACS 489	Internship, Upper Division
LACUSL 289	Internship, Lower Division
LACUSL 489	Internship, Upper Division
Latino 289	Internship, Lower Division
Latino 489	Internship, Upper Division

With approval of program coordinator, a relevant course not currently listed above may be substituted.

Faculty

(A complete list of LACUSL faculty members is available at uwm.edu/latin-american-caribbean-us-latino-studies/our-people)

Maria-Antonieta Avila, Asst. Prof., PhD Curriculum and Instruction

University of Texas

Nancy Bird-Soto, Assoc. Prof., PhD, Spanish and Portuguese

University of Wisconsin-Madison

Gilberto Blasini, Assoc. Prof., PhD, English

University of California, Los Angeles

Dir., Film Studies Program

Brenda Cárdenas, Assoc. Prof., PhD, English

University of Michigan-Ann Arbor

Sarah Davies Cordova, Prof., PhD, French, Italian, and Comparative Literature

University of California, Los Angeles

Christopher Davis-Benavides, Prof., MFA, Art & Design

University of Wisconsin-Madison

Raoul Deal, Sr. Lect., MFA, Cultures and Communities

Universidad Nacional Autónoma de México

César Ferreira, Prof., PhD, Spanish and Portuguese

University of Texas at Austin

Simone Ferro, Prof., MFA, Dance

University of Iowa

Enrique Figueroa, Assoc. Prof., PhD, Urban Planning

University of California, Davis

Jean Hudson, Assoc. Prof., PhD, Anthropology

University of California, Santa Barbara

Michelle Lopez-Ríos, Assoc. Prof., MFA, Theatre

University of Houston

Aims McGuinness, Assoc. Prof., PhD, History

University of Michigan

Kristin Pitt, Assoc. Prof., PhD, French, Italian, and Comparative Literature

University of Wisconsin-Madison

Sandra Pucci, Assoc. Prof., PhD, Linguistics

University of Southern California

Joseph Rodríguez, Assoc. Prof., PhD, History

University of California, Berkeley

Paru Shah, Assoc. Prof., PhD, Political Science and Latino Studies

Rice University

Natasha Borges Sugiyama, Assoc. Prof., PhD, Political Science

University of Texas

Erin Winkler, Assoc. Prof., PhD, Africology

University of California, Berkeley

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Special Areas of Study

Literature in Translation

A literature-in-translation course ordinarily involves the study in English translation of assigned literary works from a single foreign language. Courses in which English translations of literary works from more than one foreign language are assigned and studied may be offered by a department in which two or more foreign languages are taught or by the Comparative Literature program. Literature-in-translation courses are offered for students who do not have a command of the respective foreign languages and who wish to acquaint themselves with the literature in those languages. Each course is taught by an instructor who knows the original language(s) well and is able to discuss knowledgeably the relative strengths and weaknesses of the translations used in the course.

All the courses listed below carry credit as electives. The courses in classics may be used to fulfill the requirements for the classical civilization concentration. Courses in Italian may be used to fulfill the requirements for option B of the major in Italian. None of these courses carries foreign language credit.

In the list below, courses are identified only by curricular area, number, and title. For the specific content and prerequisites of each course, see its listing under the originating department elsewhere in this catalog.

Classic 192	First-Year Seminar: (with appropriate subtitle)
Classic 201	Introduction to Greek Life and Literature
Classic 202	Introduction to Roman Life and Literature
Classic 260	Classical Utopias
Classic 301	The Life and Literature of Classical Athens: Herodotus and Dramatists
Classic 302	War and Politics in Ancient Greece
Classic 303	The Life and Literature of the Roman Empire
Classic 304	The Graeco-Roman World: (subtitle)
Classic 375	Origins and Survivals of Classical Myth
Classic 390	Egyptian Mythology
CompLit 133	Contemporary Imagination in Literature and the Arts
CompLit 135	Cross-Cultural Literary Forms: (subtitle)
CompLit 207	World Literature in Translation: Antiquity Through the 1600s
CompLit 208	World Literature in Translation: The 17th to the 21st Century
CompLit 230	Literature and Society: (subtitle)
CompLit 231	Literature and Religion: (subtitle)
CompLit 232	Literature and Politics: (subtitle)

CompLit 233	Literature and Film: (subtitle)
CompLit 240	Norse Mythology
CompLit 241	Viking Literature in Translation: The Runes, <i>Eddas</i> , and Sagas
CompLit 309	Great Works of Modern Culture: (subtitle)
CompLit 320	Mediaeval Literature and Culture: (subtitle)
CompLit 321	Renaissance Literature and Culture: (subtitle)
CompLit 333	Dante's <i>Divine Comedy</i> in Translation
CompLit 360	Seminar in Literature and Cultural Experience: (subtitle)
CompLit 410	Classical Backgrounds of Modern Literature: (subtitle)
CompLit 444	Myths, Legends, and Poems of the Celts
CompLit 533	Seminar in Trends in Modern Literature: "Development of the Arabic Novel" subtitle
French 145	Views of France: (subtitle)
French 257	Literature of the French-Speaking World in Translation: (subtitle)
French 357	Literature of the French-Speaking World in Translation: (subtitle)
French 457	Topics in French and Francophone Literature in Translation: (subtitle)
German 160	Masterpieces of German Literature in Translation: (subtitle)
German 270	German Myths and Legends: (subtitle)
German 301	German Authors in Translation: (subtitle)
German 305	German Life and Literature: (subtitle)
HebrSt 231	Introduction to the Old Testament/Hebrew Bible
HebrSt 232	Survey of the Literature of the Post-Biblical Period
HebrSt 234	Survey of Modern Hebrew and Jewish Literature in Translation
HebrSt 235	The <i>Dead Sea Scrolls</i> and the Bible
HebrSt 236	The Biblical World
HebrSt 274	Ancient Egyptian Civilization
HebrSt 331	Topics in Biblical Literature: (subtitle)
HebrSt 332	Women in the Bible
HebrSt 381	Honors Seminar: (subtitle)
HebrSt 417	Hebrew Children's Literature in Translation
HebrSt 418	Modern Hebrew Drama in Translation
HebrSt 419	Contemporary Israeli Poetry in Translation
Italian 145	Views of Italy: (subtitle)
Italian 155	Masterpieces of Italian Literature in Translation

Italian 265	Italian Women's Studies: (subtitle)
Italian 333	Dante's <i>Divine Comedy</i> in Translation
Italian 357	Topics in Italian Culture in Translation: (subtitle)
Polish 259	Survey of Polish Literature in Translation: Baroque Through Romanticism
Polish 260	Survey of Polish Literature in Translation: 1863 to the Present
Portugus 380	Luso-Brazilian Literature in Translation: (subtitle)
Russian 140	Introduction to Russian Literature in Translation
Russian 235	Survey of Nineteenth-Century Russian Literature in Translation
Russian 236	Survey of Twentieth-Century Russian Literature in Translation
Russian 240	Soviet Literature in Translation
Russian 350	Dostoyevsky and Tolstoy in Translation: Major Works
Russian 360	Bulgakov, Pasternak, and Solzhenitsyn in Translation
Russian 385	Honors Seminar: (subtitle)
Spanish 380	Spanish Literature in Translation: (subtitle)
Spanish 381	Honors Seminar: (with appropriate subtitle)
Spanish 383	Spanish American Literature in Translation: (subtitle)

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Latino Studies

Joseph A. Rodriguez, *Professor, History, Coordinator, HLT 325, joerod@uwm.edu*

The Latino Studies Certificate Program is designed for students who have an interest in Latino studies, regardless of major or college affiliation. It utilizes an interdisciplinary approach to examining the experiences, cultures, and social conditions of Latinos in the United States.

The program is open to any University of Wisconsin-Milwaukee undergraduate who has completed at least 15 credits, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the certificate program are awarded the certificate at the time of graduation. Students who already possess the bachelor's degree and non-degree students receive the certificate upon completion of the program requirements.

To obtain the certificate, students must complete 21 credits in approved Latino courses, including 12 credits at the 300 level and above, with a minimum grade point average of 2.500. Students must select courses from at least three curricular areas, including Latino 101. No more than 12 credits in a single curricular area may count toward the certificate, and a maximum of 3 credits of independent study may be applied to the 21 credit requirement. At least 12 credits for the certificate must be completed in residence at UWM, with at least 9 of the residence credits at the 300 level and above. For additional program information, contact the coordinator.

Required Courses (3 cr)

Latino 101 Introduction to Latino Studies 3

Elective Courses (18 cr, including 12 credits numbered 300 and above)

*Only one of English 374 and Spanish 371 may count toward the minimum 21 credits required for the certificate.

(Consult the Certificate coordinator for approval to count additional appropriate courses not listed below.)

CurrIns 542	History and Politics of Second Language Education
CurrIns 550	Using Children's Literature to Explore Latin American/Latino Cultural Heritage
Ed Pol 212	Educational Issues in Spanish-Speaking Communities
Ed Pol 460	The Chicano Experience
Ed Pol 560	Education and Hispanics
English 279	Introduction to U.S. Latino/a Literature: (subtitle)
English/FilmStd 316	World Cinema: "Latina and Latin American Women Directors" subtitle
English 374*	Survey of Latino/a Literature
English 394	Theories of Mass Culture: "Latino and Latin American Popular Culture" subtitle
English 523	Studies in U.S. Latino/a Literature: (subtitle)
Ethnic 250	Selected Topics in Ethnic Studies: "Women as Migrant Workers" subtitle
Hist 200	Historical Issues of Contemporary Issues: "U.S.-Mexico Borderlands" subtitle

Hist 267	The History of Latinos in the United States
Hist 372	Topics in Global History: "History of Media: Latin American and U.S. Latino Worlds" subtitle
LACUSL 200	Special Topics in Latin American, Caribbean, and U.S. Latino Studies
LACUSL 300	Advanced Topics in Latin American, Caribbean, and U.S. Latino Studies
LACUSL/Theatre 324	Theatre in the Americas: Latin American, Caribbean, and Latino/a Theatre
Latino 199	Independent Study
Latino 201	Special Topics in U.S. Latino Studies: (subtitle)
Latino 301	Advanced Topics in U.S. Latino Studies: (subtitle)
Latino/Pol Sci 388	Latino Politics
Latino 699	Advanced Independent Study
Sociol 193	First-Year Seminar: "Latinos and the City" subtitle
Sociol 323	Perspectives on Latino Communities
Sociol 423	Latino Immigration and Incorporation: (subtitle)
Spanish 319	Advanced Speaking and Listening for Heritage Speakers
Spanish 371*	Introduction to Latino Literature in English
Spanish 373	Topics in Latino Literature in English: (subtitle)

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Ancient Mediterranean Studies

Elisabetta Cova, *Associate Professor of Classics, Department of Foreign Languages and Literature, Coordinator*
CRT 814, (414) 229-3239, covae@uwm.edu

The Ancient Mediterranean Studies Certificate Program at UWM provides undergraduate students with an interdisciplinary program for the study of the cultures and societies of ancient Greece and Rome and fosters interaction among faculty members with a teaching or research interest in the classical world. Drawing on the resources of specialists working in this field at UWM, the program offers students a coordinated core of courses clustered around the disciplines of Classics, History, and Art History, and also draws on the resources of several other related areas and disciplines, such as Anthropology, Comparative Literature, English, Hebrew Studies, Philosophy, and Political Science.

While the program requires some study of the ancient languages, proficiency in Latin and Greek is not required for certification. Students, however, may obtain a certificate in Ancient Mediterranean Studies with Language Proficiency if they complete, as part of or in addition to the certificate requirements, 9 credits in Latin or Greek courses numbered 300 and above or pass a proficiency exam. Students also are encouraged to take advantage of the opportunities for study abroad, including fieldwork in archaeology, which may be used to fulfill certificate requirements.

The program is open to all students seeking a bachelor's degree from UWM and to students who previously received a bachelor's degree from UWM or any other accredited college or university. The program coordinator interviews interested students to ascertain the appropriateness of the program to their academic goals and to inform them of program requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree receive the certificate upon completion of the program requirements.

Requirements

Students enrolled in the Certificate in Ancient Mediterranean Studies (CAMS) Program must complete a minimum of 24 credits, distributed as follows:

Core Requirements (18-20 credits)

1. 6 credits in History, chosen from Hist 201, 202, 303, 304, 307, and 308; Hist 370 and 371 can be taken with approval from the coordinator.
2. 6 credits in Art History, chosen from ArtHist 101 and/or 300-level or above ArtHist courses from the approved list.
3. Two semesters at any level in one of the following languages: Latin, Greek, or Biblical Hebrew (6-8 credits, depending on the course).

In addition to the core requirements, students also must complete 6 credits from the list of approved courses (usually found in Anthropology, Art History, Classics, Hebrew Studies, History, and Philosophy), at least 3 of which must be in an approved CAMS course at the 300 level or above or in any Latin or Greek course not used to fulfill the language requirement. Other courses may count toward the certificate at the discretion of the Program's Advisory Committee. Students may petition to include courses with appropriate content that do not appear on the list.

Students must achieve a grade point average of 3.000 or higher in the courses that satisfy the Program requirements, and all such courses must be graded rather than taken on a credit/no credit basis. Of the 24 required credits, at least 9 credits must be taken at the advanced level (numbered 300 and above) in residence at UWM. At least 12 credits must be taken

in courses in the College of Letters and Science, with at least 6 of these at the advanced level.

Guidelines for Substitutions

Generally, substitutions for core requirements will not be allowed except in cases when an equivalent course has been taken at another university. In such cases, the student must petition the CAMS advisory committee and provide the following documentation: a formal statement of justification, a syllabus, and a transcript.

Approved Courses

Anthro 103	Digging Up the Past: Approaches to Archaeology	3
Anthro 305	The Celtic World	3
Anthro 306	European Archaeology	3
Anthro 307	World Archaeology: Foundation of Civilization	3
ArtHist 101	Ancient and Medieval Art and Architecture	3
ArtHist 220	The Beginning of Medieval Art	3
ArtHist 312	Minoan and Mycenaean Art and Archaeology	3
ArtHist 313	Greek Art and Archaeology	3
ArtHist 314	Art and Archaeology of the Ancient Near East	3
ArtHist 315	Art and Archaeology of Ancient Egypt	3
ArtHist 316	Roman Art and Archaeology	3
ArtHist 324	Early Christian and Byzantine Art and Architecture	3
ArtHist 327	Art and Architecture of Islamic Spain	3
ArtHist 412	Cities and Sanctuaries of Ancient Greece	3
ArtHist 413	Greek Sculpture	3
ArtHist 414	Greek Vase Painting	3
ArtHist 416	Roman Architecture	3
Celtic 350	Advanced Topics in Celtic Studies: "The Archaeology of Ireland" and "The Archaeology of Britain" subtitles	3
Classic 101	Latin and Greek in English Words	3
Classic 170	Classical Mythology	2
Classic 171	Classical Mythology: An Audiovisual Supplement	1
Classic 192	First-Year Seminar: "Ancient Greek and Roman Love Poetry" subtitle	3
Classic 201	Introduction to Greek Life and Literature	3
Classic 202	Introduction to Roman Life and Literature	3
Classic 260	Classical Utopias	3
Classic 274	Ancient Egyptian Civilization	3
Classic 297	Study Abroad: "Cultural Diversity of Ancient Campania" subtitle	3
Classic 299	Ad Hoc: "Egyptian Hieroglyphics" and "Jason and Medea" subtitles	3
Classic 301	The Life and Literature of Classical Athens: Herodotus and Dramatists	3
Classic 302	War and Politics in Ancient Greece	3
Classic 303	The Life and Literature of the Roman Empire	3
Classic 304	The Greco-Roman World: (all subtitles)	3
Classic 351	Ancient Greek Religion	3
Classic 370	Hittite Myth and History	3
Classic 375	Origins and Survivals of Classical Myth	3
Classic 381	Honors Seminar: (all subtitles)	3H
Classic 390	Egyptian Mythology	3
Classic 497	Study Abroad: "Cultural Diversity of Ancient Campania" subtitle	3
CompLit 207	World Literature in Translation: Antiquity Through the 1600s	3
Greek 103	First Semester Greek	4

Greek 104	Second Semester Greek	4
Greek 199	Independent Study	1-3
Greek 205	Third Semester Greek	4
Greek 306	Readings in Ancient Greek Literature: (all subtitles)	4
Greek 372	The New Testament	1-2
Greek 501	Readings in Classical Greek Prose: (all subtitles)	3
Greek 502	Readings in Ancient Greek Poetry: (all subtitles)	3
Greek 699	Directed Reading	1-3
Hebr St 105	Introduction to Biblical Hebrew	3
Hebr St 106	Introduction to Biblical Hebrew II	3
Hebr St 131	Introduction to Biblical Studies	3
Hebr St 231	Introduction to the Old Testament/Hebrew Bible	3
Hebr St 232	Survey of the Literature of the Post-Biblical Period	3
Hebr St 233	Introduction to the New Testament	3
Hebr St 235	The Dead Sea Scrolls and the Bible	3
Hebr St 236	The Biblical World	3
Hebr St 238	Topics in Hebrew/Jewish Literature: "Searching for the Historical Jesus" subtitle	3
Hebr St 249	History of Jewish Civilization: Biblical Period	3
Hebr St 250	History of Jewish Civilization: The Greek and Roman Periods	3
Hebr St 305	Advanced Hebrew I	3
Hebr St 306	Advanced Hebrew II	3
Hebr St 331	Topics in Biblical Literature: "Prophets and Prophecy in the Hebrew Bible" subtitle	3
Hebr St 332	Women in the Bible	3
Hebr St 474	Introduction to the Mishna	3
Hebr St 476	Introduction to the Targum	3
Hist 201	The Ancient World: The Near East and Greece	3
Hist 202	The Ancient World: The Roman Republic and Empire	3
Hist 203	The History of Medieval Europe: The Early Middle Ages	3
Hist 274	Ancient Egyptian Civilization	3
Hist 280	Islamic Civilization: The Formative Period, ca. 500-1258	3
Hist 303	A History of Greek Civilization: The Greek City-State	3
Hist 304	A History of Greek Civilization: The Age of Alexander the Great	3
Hist 307	A History of Rome: The Republic	3
Hist 308	A History of Rome: The Empire	3
Hist 370	Topics in the History of Religious Thought: "Judaism in the Ancient World," "Paganism in the Ancient World," "Early Christianity" subtitles	3
Hist 371	Topics in European History: "Rome in the Age of Constantine – Society and Culture" subtitle	3
Hist 398	Honors Seminar: "Medicine and Healing in Ancient Greece and Rome" and "Pagans and Christians in the Roman Empire" subtitles	3
Honors 200	Honors Seminar: The Shaping of the Modern Mind – "Nostalgic Fictions: The Odyssey and Its Afterlife" and "Cleopatra: Passion, Power, and Political Fantasy" subtitles	3
Latin 103	First Semester Latin	4
Latin 104	Second Semester Latin	4
Latin 150	Intensive Latin	4
Latin 199	Independent Study	1-3
Latin 205	Third Semester Latin	4
Latin 306	Readings in Latin Literature: (all subtitles)	4
Latin 501	Readings in Latin Prose: (all subtitles)	3
Latin 502	Readings in Latin Poetry: (all subtitles)	3

Latin 508	Latin Prose Composition	3
Latin 699	Directed Reading	3
Linguis 211	Origin of Words	3
Philos 430	History of Ancient Philosophy	3
Philos 550 (450)	Plato	3
Philos 551 (451)	Aristotle	3
Philos 681	Seminar in Advanced Topics: “Aristotle’s Natural Philosophy” subtitle	3

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College of Letters and Science

Middle Eastern and North African Studies

Caroline Seymour-Jorn, *Associate Professor of Comparative Literature, Coordinator*
Christine Wolf, *Advisor, Garland Hall 111, (414) 229-4846, cawolf@uwm.edu*

The Certificate Program in Middle Eastern and North African Studies is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as a non-degree student, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

The certificate program offers students a background in Middle Eastern and North African languages, cultures, history, and civilization. The program requires one year of Arabic or Hebrew language courses and a historical survey course. Upper-level courses offer students the opportunity to explore Middle Eastern literature, history, politics, religion, and art in greater depth. Courses totaling 23 credits must be completed with a GPA of 2.750 or better. At least one half of the work for the certificate must be taken at UWM. The Committee for Middle Eastern and North African Studies administers the program and advises students.

In addition to taking courses related to the Middle East and North Africa, students have opportunities to meet and study with Middle Eastern scholars who regularly visit UWM through a number of institutional partnerships with Middle Eastern universities. Students also may take advantage of study abroad programs that offer credit for academic work in the Middle East and North Africa.

Following are the detailed requirements for the certificate. For the content and prerequisites of each course, see its listing under the originating department elsewhere in this catalog.

I. 8 credits (or equivalent) in a single Middle Eastern Language sequence from either Arabic or Hebrew.

Arabic 101	First Semester Arabic	4
Arabic 102	Second Semester Arabic	4
Hebr St 101	First Semester Hebrew	4
Hebr St 102	Second Semester Hebrew	4
Hebr St 105	Introduction to Biblical Hebrew I	4
Hebr St 106	Introduction to Biblical Hebrew II	4

II. At least one course selected from the following survey courses:

Hist 280	Islamic Civilization: The Formative Period, ca. 500-1258	3
Hist 281	Islamic Civilization: The Middle Period, ca. 1200-1805	3
Hist 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3

III. At least 12 additional credits selected from the approved electives list, of which at least 9 must be at the 300 level or above.

Students must include among their credits selected for section III at least one course in Hebrew studies and one course in Arabic studies.

Anthro 327	Peoples and Cultures of the Middle East	3
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Anthro 641	Seminar in Anthropology: (with appropriate subtitle)	3
Arabic 111	Cultures and Civilizations of the Muslim Middle East	3
Arabic 201	Third Semester Arabic	3
Arabic 202	Fourth Semester Arabic	3
Arabic 299	Ad Hoc: (with appropriate subtitle)	1-6
Arabic 301	Fifth Semester Arabic	3
Arabic 302	Sixth Semester Arabic	3
Arabic 499	Ad Hoc: (with appropriate subtitle)	1-6
ArtHist 315	Art and Archaeology of Ancient Egypt	3
ArtHist 324	Early Christian and Byzantine Architecture	3
ArtHist 326	Heretics and Iconoclasts: The Art and Architecture of the Christian East	3
ArtHist 327	The Arts of Islam	3
ArtHist 435	Art and Architecture Along the Western Silk Road	3
Classic 390	Egyptian Mythology	3
CompLit 533	Seminar in Trends in Modern Literature: "Development of the Arabic Novel" subtitle	3
English 247	Literature and Human Experience: (with appropriate subtitle)	3
French 357	Literature of the French-Speaking World in Translation: (with appropriate subtitle)	3
French 431	Seminar in Literature of the Francophone World: (with appropriate subtitle)	3
French 432	Seminar in French and Francophone Cultures: (with appropriate subtitle)	1-3
Hebr St 201	Third Semester Hebrew	3
Hebr St 202	Fourth Semester Hebrew	3
Hebr St 205	Intermediate Biblical Hebrew I	3
Hebr St 206	Intermediate Biblical Hebrew II	3
Hebr St 231	Survey of the Books of the Old Testament in Translation	3
Hebr St 235	The Dead Sea Scrolls and the Bible	3
Hebr St 238	Topics in Hebrew/Jewish Literature, Art, and Culture: (with appropriate subtitle, e.g., "Judaism, Christianity, and Islam")	3
Hebr St 254	Studies in Hebrew Culture: (with appropriate subtitle)	3
Hebr St 255	The Politics of American Jewish Identity	3
Hebr St 261	Representing the Holocaust in Words and Images	3
Hebr St 268	Jewish and Christian Responses to the Holocaust	3
Hebr St 274*	Ancient Egyptian Civilization	3
Hebr St 299	Ad Hoc: (with appropriate subtitle)	1-6
Hebr St 301	Modern Hebrew Literature I in Hebrew	3
Hebr St 302	Modern Hebrew Literature II in Hebrew	3
Hebr St 303	Modern Hebrew Literature I in English	3
Hebr St 304	Modern Hebrew Literature II in English	3
Hebr St 321	The Holocaust and the Politics of Memory	3
Hebr St 332	Women in the Bible	3
Hebr St 381	Honors Seminar: (subtitle)	3H
Hebr St 418	Modern Hebrew Drama in Translation	3
Hebr St 419	Contemporary Israeli Poetry in Translation	3
Hist 274*	Ancient Egyptian Civilization	3
Hist 280**	Islamic Civilization: The Formative Period, ca. 500-1258	3
Hist 281**	Islamic Civilization: The Middle Period, ca. 1200-1805	3
Hist 282**	The Modern Middle East in the Nineteenth and Twentieth Centuries	3
Hist 283	Arab-Israeli Relations: The Search for Peace	3
Hist 319	The Era of the Crusades	3
Hist 370	Topics in the History of Religious Thought: (with appropriate subtitle, e.g., "Judaism in the Ancient World")	3
Hist 386	Africa: The Age of Empires to 1880	3

Hist 387	Africa: Imperialism and Independence Since 1880	3
Hist 401	Topics in Middle Eastern History: (subtitle)	3
Hist 600	Seminar in History: (with appropriate subtitle)	3
Hist 892	Colloquium in Medieval Islam: (subtitle; when carrying undergraduate credit for undergraduate students)	3
IntlSt 350	Regional Seminar in International Studies: (with appropriate subtitle)	3
IntlSt 450	Internship in International Studies: (with appropriate subtitle)	2-6
IntlSt 550	Senior Seminar in International Studies: (with appropriate subtitle)	3
Jewish 261	Representing the Holocaust in Words and Images	3
Jewish 268	Jewish and Christian Responses to the Holocaust	3
Philos 452	Special Topics in Ancient and Medieval Philosophy: (with subtitle "Maimonides")	3
Philos 461	Islamic Philosophy and Mysticism	3
Philos 507	Special Problems in Philosophy of Religion: (with appropriate subtitle)	3
Pol Sci 327	Politics of the Middle East and North Africa	3
Pol Sci 329 (660)	African Politics	3
Pol Sci 371	Nationalism and Ethnic Conflict	3

* Jointly offered; may be taken under only one area.

** If not taken under Section II.

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Military Science

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-

Army ROTC

The ROTC program provides University students with leadership, management, and tactical skills that enable transition to military duty.

ROTC is not a major field of study. Rather, it is a program in which students pursue a baccalaureate degree and take leadership, management, and other military-oriented courses that qualify them to accept a commission as an officer in the U.S. Army, Army Reserve, or National Guard upon graduation. The program provides a general knowledge of the contemporary role of the Army in support of national objectives and affords a practicum in leadership and management skills. Credits earned in military science courses apply toward graduation requirements.

The Army ROTC program is divided into two parts, the basic course (freshman and sophomore years) and the advanced course (junior and senior years). Both courses are administered at Marquette University. Students enrolled in ROTC must pay a one-time, \$25 part-time studies application fee. Credit hours earned at Marquette University are transferred to UWM student transcripts and count towards GPA and elective credit.

The Army ROTC program offers scholarship opportunities to qualified students. Scholarships vary in length and pay a predetermined amount for tuition, books, and fees. Students also may be members of reserve or national guard units while taking the advanced course under the Simultaneous Member Program. Advanced course students receive \$100 per month for up to 20 months.

Basic Course. Students enrolled in the ROTC basic course have no military obligation.

Advanced Course. Successful completion of the ROTC advanced course leads to a commission as a Second Lieutenant upon graduation from UWM in the Regular Army, Army Reserve, or National Guard. In addition to fulfilling program requirements, advanced-course students attend an advanced camp for six weeks at Fort Lewis, Washington, during the summer between the junior and senior years.

To qualify for entry into the advanced course, students must either complete successfully the basic course and the Army ROTC basic camp at Fort Knox, Kentucky, or receive constructive credit for the basic course for veteran status or high school ROTC experience.

Veterans and students with high school ROTC experience may be given constructive credit for the ROTC basic course, as determined on an individual basis by the professor of military science, enabling them to enter the advanced course at the beginning of the junior year.

For more information about enrolling in either the basic or the advanced course, contact the Marquette University Department of Military Science, 1508 W. Clybourn St., Milwaukee, WI 53233, (414) 288-7195.

Air Force ROTC

UWM students have the opportunity to participate fully in the Air Force Reserve Officers Training Corps (AFROTC) Program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, UWM offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers four-, three-, and two-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course, in addition to a four-week summer field-training program between their second and third years in the program. Two-year students complete only the professional officer course, but have a five-week summer field-training program before entering the professional officer course.

General qualifications:

- Be a full-time student;
- Be a United States citizen (for scholarship appointment);
- Be in good physical condition;
- Be of good moral character;
- For pilot or navigator training, fulfill all commissioning requirements before age 26 1/2;
- For scholarship recipients, fulfill all commissioning requirements before age 27 on June 30 in the estimated year of commissioning; and
- For non-scholarship students, fulfill all commissioning requirements before age 30.

General Military Course. The first- and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks and uniforms are provided free. The general military course is open to all students at UWM without advance application and does not obligate students to the Air Force in any way.

Field Training. AFROTC Field Training is offered during the summer months at selected Air Force bases throughout the U.S. and provides leadership and officership training in a structured military environment. Major areas of study include physical training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

Professional Officer Course. The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon college graduation. All students in the professional officer course receive a nontaxable subsistence allowance of \$200 per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

Leadership Laboratory. Leadership laboratory is a cadet-centered activity. It is largely cadet planned and directed, in line with the premise that it provides leadership training experience that will improve a cadet's ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information and other services that will increase the performance

and motivation of other cadets.

AFROTC College Scholarship and Scholarship Action Programs. These programs provide scholarships to selected students participating in AFROTC. While participating in AFROTC, students receive \$200 per month along with paid tuition, fees, and a fixed textbook reimbursement. To be eligible for either of these programs, students must:

- Be a U.S. citizen;
- Be at least 17 years of age on the date of enrollment and under 27 years of age on June 30 of the estimated year of commissioning;
- Pass an Air Force physical exam;
- Be selected by a board of Air Force officers;
- Have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic (applicants must not be conscientious objectors);
- Achieve a passing score on the Air Force Officer Qualifying Test; and
- Maintain a quality grade point average.

High school students can apply for scholarships late in their junior year or early in their senior year; pre-applicant questionnaires are available from high school guidance counselors or any Air Force recruiting office. Completed pre-applicant questionnaires should be mailed as soon as possible (to meet the earliest selection board) but will not be accepted if mailed after December 1 of the year before entering college. For students already enrolled at UWM, three- and two-year scholarships are available. Applications are submitted directly to the Department of Aerospace Studies at Marquette University.

For more information, contact the Department of Aerospace Studies at Marquette University, (414) 288-7682.

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College of Letters and Science

Pre-Medical Studies

Patricia Cobb, *Senior Student Services Coordinator, L&S Pre-Medical Advisor*, HLT 141, (414) 299-3922, pacobb@uwm.edu

The Certificate Program in Pre-Medical Studies is founded on the belief that science knowledge alone does not prepare students to become effective physicians. Students need to have insight into and sensitivity to the emotional, cultural, and environmental factors that motivate the behaviors of the people who will be their patients. They must have a genuine concern for them as individuals, and an ability to communicate with them in ways that respect their beliefs and attitudes. The development of the student's humanistic side is a high priority in the education of future physicians through this certificate program.

To obtain the certificate, students must have earned a baccalaureate degree, either previously or concurrently with the awarding of the certificate. Students may enter the certificate program as new freshmen, as continuing students if they have earned a 3.250 GPA overall and in the required science/math courses, and as post-baccalaureate students who have earned an undergraduate GPA of 3.000 (3.250 is preferred) on their first degree. To remain in the program in good standing, students must maintain a 3.250 GPA overall and in required science/math courses. Students who fall below a 3.250 in either GPA in any semester are granted one semester of probation in which to raise the GPA above 3.250. If they do not do so, they are dropped from the program but may re-enter at any time that the GPA once again meets or exceeds 3.250.

General Credit Requirements

Students will complete approximately 21 credits beyond the minimum requirements for admission to medical school in meeting the requirements of the Certificate in Pre-medical Studies. At least 35 credits, including at least 8 of the minimum of 15 advanced credits required, must be taken at UWM.

Required Courses

Students must complete all prerequisite courses for admission to medical school. These include:

Bio Sci 150, 152	Foundations of Biological Sciences I & II
Bio Sci 325 (260)	Genetics
At least one Biological Science advanced-level course with lab selected from:	
Bio Sci 315/316	Cell Biology/Laboratory in Genetics and Cell Biology
Bio Sci 370/372	Animal Physiology/Animal Physiology Laboratory
Bio Sci 383	General Microbiology
Bio Sci 401/402	Immunology/Immunological Techniques
Chem 102, 104	General Chemistry and Qualitative Analysis
Chem 343, 344, 345	Organic Chemistry
English composition at the 102 level or above	
English, any other course, for three credits	
Math 116, 117	College Algebra and Trigonometry
or	
Math 211	Survey in Calculus and Analytic Geometry
or	
Math 221	Honors Calculus I
or	
Math 231	Calculus and Analytic Geometry
Physics 120, 121, 122, 123	General Physics I and II (Non-Calculus Treatment)

or
Physics 209, 210, 214, 215 Physics I and II (Calculus Treatment)

or

Physics 219, 220 Physics I and II: Calculus-Based, Studio Format

In addition, students must complete the following courses:

Anthro 104 Lifeways in Different Cultures: A Survey of World Societies

One of the following three courses:

Chem 501 Introduction to Biochemistry (or other advanced-level biochemistry course)

or

Physics 305 (405) Medical Physics

or

Physics 306 Biophysics

Commun 103 Public Speaking

Hist 229 History of Race, Science, and Medicine in the U.S.

PH 101 Introduction to Public Health

One of the following three courses:

Philos 241 Introductory Ethics

or

Philos 243 Moral Problems (for 3 credits)

or

Philos 244 Ethical Issues in Healthcare

Psych 101 Introduction to Psychology

Required Enriching Experiences

1. Participation in an independent study or research project in a natural science, psychology, or other approved area (students may earn 3 cr through departmental 699 or other research course);
2. Participation in the UWM/Milwaukee County Medical Society Mentor Program; and
3. Certification of 112 hours of volunteer work or employment in a healthcare setting (students may earn 3 credits toward the degree through Ed Pol 202, Volunteers for Credit, to obtain this certification).

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Public and Nonprofit Administration

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- [Courses: Public Administration \(PUB ADM\)](#)
- [Faculty](#)

Douglas Ihrke, PhD, Professor, *Chair and Director of Nonprofit Administration*
Alumni House 381, Phone: (414) 229-3167, Fax: (414) 229-2353

John Bohte, PhD, Professor, *Director of Public Administration*
Bolton Hall, Room 620, Phone: (414) 229-4328

The public and nonprofit administration unit (PNA) houses several graduate programs, but also offers some courses at the undergraduate level. PNA oversees the following graduate programs:

- Master of Science in Nonprofit Management and Leadership
- Master of Public Administration
- Graduate Certificate in Nonprofit Management

PNA partners with the Department of Urban Planning to offer a coordinated Master of Public Administration/Master of Urban Planning program. Additionally, PNA partners with the Helen Bader School of Social Welfare to offer a joint Master of Science in Criminal Justice and Master of Public Administration.

Undergraduate courses in public administration will provide a background for students interested in pursuing graduate degrees in the field as well as for those who wish to enhance their studies in another program with an understanding of the administration of public and nonprofit programs.

Courses

[Public Administration \(PUB ADM\)](#)

Faculty

John Bohte, Assoc. Prof., PhD
Texas A&M University
Director, Public Administration

Grace Schultz, Asst. Prof., PhD
Georgia State University

Marcus Ethridge, Prof. Emeritus, PhD

Douglas M. Ihrke, Prof., PhD, Chair

Northern Illinois University

Director, Nonprofit Administration

Affiliate Faculty

Shale A. Horowitz, Prof., PhD

University of California, Los Angeles

James A. Peoples, Prof., PhD

University of California, Berkeley

William Vélez, Prof., PhD

Yale University

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Pre-Chiropractic

Dana Northrup, *Academic Advisor, Student Academic Services, Pre-Chiropractic Advisor*, (414) 229-4654, northrup@uwm.edu.

UWM offers all of the prerequisite coursework necessary for students to apply to Doctor of Chiropractic (DC) programs throughout the country.

There are no DC programs in the state of Wisconsin. It is important for a student to explore the DC programs in which they are interested because admissions requirements vary from institution to institution. The pre-chiropractic advisor works with students to make those connections early in their undergraduate years. Many DC programs admit students into their programs after the completion of 90 credit hours as an undergraduate. However, to practice in the state of Wisconsin, students must complete a BA/BS degree prior to starting their DC program OR attend a DC program that offers a bachelor's degree completion option.

UWM has guaranteed admission articulation agreements with:

- Palmer College of Chiropractic
- Cleveland Chiropractic College
- Northwestern Health Sciences University

Entrance to a chiropractic program is very competitive. Although specific admission requirements may vary among programs, the following minimum standards are universal:

- 90 completed undergraduate credits
- Overall GPA of 3.00 or higher
- 30+ credits at the 300+ level
- 24 credits in the natural sciences, half with lab work

Recommended coursework includes:

- One year (two semesters) general biology with lab (Bio Sci 150 and 152)
- One year (two semesters) general chemistry with lab (Chem 102 and 104)
- One year (two semesters) organic chemistry with lab (Chem 343, 344, and 345)
- One year (two semesters) physics with lab (Physics 120/121 and 122/123 or Physics 209/214 and 210/215)

Other common course requirements include (but are not limited to) the following: anatomy and physiology, cell biology, biochemistry, math statistics, nutrition, kinesiology, genetics, microbiology, immunology, and toxicology.

Due to the variance in admission requirements, it is strongly recommended that students consult with the pre-chiropractic advisor every semester.

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Pre-Dentistry

Jennifer Hack, *Student Academic Services, Pre-Dental Advisor, HLT 150, (414) 229-5873, jlrahmer@uwm.edu, uwm.edu/letters-science/programs?discipline=Pre-Dental*

Students wishing to become dentists should consult the advisor early in their undergraduate career for help in planning a program. Later, the advisor also can assist students in applying to schools of dentistry.

Most schools of dentistry require a minimum of three years of undergraduate work. Pre-dental students who decide to become degree candidates must fulfill all degree requirements.

The 90 credits required for admission to most schools of dentistry include the following courses: 1 year of English; 2-2.5 years of chemistry, including inorganic chemistry, organic chemistry, and biochemistry; 1 year of biology (more is advised); 1 year of physics. Most dental schools require mathematics at least through pre-calculus. All science courses must include laboratory work.

Science Courses That Satisfy Dental School Admission Requirements

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
At least one advanced course in biological sciences:		
Bio Sci 315	Cell Biology	3
Bio Sci 325	Genetics	3
Bio Sci 383	Microbiology	4
Chemistry Courses:		
Chem 102	General Chemistry	5
Chem 104	General Chemistry and Qualitative Analysis	5
Chem 343	Organic Chemistry	3
Chem 344	Organic Chemistry Laboratory	2
Chem 345	Organic Chemistry	3
Chem 501	Biochemistry	3
Physics Courses:		
Physics 120	General Physics I (Non-Calculus Treatment)	4
Physics 121	General Physics Laboratory I (Non-Calculus Treatment)	1
Physics 122	General Physics II (Non-Calculus Treatment)	4
Physics 123	General Physics Laboratory II (Non-Calculus Treatment)	1
or		
Physics 209	Physics I (Calculus Treatment)	4
Physics 210	Physics II (Calculus Treatment)	4
Physics 214	Lab Physics I (Calculus Treatment)	1
Physics 215	Lab Physics II (Calculus Treatment)	1
or		
Physics 219	Physics I: Calculus-Based, Studio Format	5
Physics 220	Physics II: Calculus-Based, Studio Format	5

Students must achieve satisfactory scores on the Dental Admission Test (DAT). The advisor can provide information

regarding the administration of this test. In addition, students are advised to take elective credits to ensure a broad liberal education.

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Pre-Forestry (Wildlife Management)

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The University of Wisconsin-Milwaukee does not offer a degree in forestry or wildlife management. However, the subjects listed below correspond closely to the requirements of the first two years of forestry and wildlife management curricula in institutions offering such degree programs.

Students are advised to confer with the pre-forestry advisor no later than the second semester of the freshman year about the specific requirements of the natural resources institution to which they plan to transfer. This should enable them to plan a course of study for the sophomore year at UWM that will satisfy these specific requirements.

Since many schools require attendance at a camp during the summer following the sophomore year, students are advised to consult at an early date with the institution to which they plan to transfer.

Completion of Chem 100 and Math 105 (or appropriate placement scores) is the prerequisite for beginning the chemistry courses required for the pre-forestry program.

Recommended Curriculum for the Pre-Forestry Program

FRESHMAN YEAR

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
Chem 102 & 104	General Chemistry/Qualitative Analysis	10
English 102	College Writing and Research	3
or		
English 206	Technical Writing	3
Math 116/117	College Algebra/Trigonometry	5
or		
Math 211	Survey in Calculus and Analytic Geometry	4
Pol Sci 104	Introduction to American Government and Politics	3
Total		28-30

SOPHOMORE YEAR

Commun 101	Introduction to Interpersonal Communication	3
or		
Commun 103	Public Speaking	3

CompSci 132	Introduction to Computers and Programming	2
Econ 103	Principles of Microeconomics	3
Econ 104	Principles of Macroeconomics	3
Geo Sci 100	Introduction to the Earth	3
or		
Geog 120	Our Physical Environment	3
Psych 101	Introduction to Psychology	3
or		
Sociol 101	Introduction to Sociology	3
Electives ¹		6-9
Total		27-30

¹ Possible electives include the following courses (Contact the program coordinator for information on other elective courses.):

Bio Sci 310	General Ecology	3
Bio Sci 325 (260)	Genetics	3
Bio Sci 407	Plant Systematics and Evolution	3
Bio Sci 408	Dendrology	3
Bio Sci 500	Plant Physiology	3
Bio Sci 511	Ichthyology	3
CES 471	Principles of Natural Resources Management	3
Geog 475	Geography of Soils	3
or		
Geo Sci 401	General Soil Science	3
MthStat 215	Elementary Statistical Analysis	3

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Pre-Law

Gwyn Wallander, *Senior Student Services Coordinator, Student Academic Services, Pre-Law Advisor*, HLT 114, (414) 229-6017, gwyn@uwm.edu

Unlike other pre-professional programs, there is no specific curriculum or set of courses required of pre-law students. The law relates to many aspects of human activity, and law schools look for diversity in the educational background of their students. However, some broad generalizations can be made about the most desirable kind of pre-law training.

Students should develop a high degree of competence in reading and writing the English language and in the skills of critical analysis and logical reasoning. Courses in literature, composition, communication, mathematics, and philosophy are obvious components in a rigorous pre-law curriculum. Pre-law students also should obtain a sound grounding in the economic, social, and political institutions of the United States, and an introductory course in accounting may strengthen their application to some law schools. It should be noted that these general guidelines are not intended to suggest or dictate the choice of academic major; that choice should emerge from the student's own field of interest.

Virtually all law schools require that applicants take the Law School Admission Test (LSAT), given four times yearly, usually during the months of June, October, December, and February. Information about and applications for this test may be obtained from the pre-law advisor or from any law school. Ideally, the LSAT should be taken in June or October, one year prior to the fall of intended admission. December is the latest date the LSAT can be taken for meeting admission application deadlines, which may be as early as January 15.

Two factors play primary roles in determining admission to law schools: academic performance as measured by the grade point average and score on the LSAT. The quality and rigor of the undergraduate program also will be considered. Minority group students are encouraged to see the pre-law advisor about making application to the Council on Legal Education Opportunity (CLEO) summer institutes.

Information on application procedures and the Law School Admission Test may be obtained from the pre-law advisor in Letters and Science advising. Law school bulletins and other publications are available for reference.

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Pre-Medicine

Patricia Cobb, *Senior Student Services Coordinator, Student Academic Services, Pre-Medical Advisor, HLT 131, (414) 229-3922, pacobb@uwm.edu, uwm.edu/letters-science/programs?discipline=Pre-Med*

Students wishing to become physicians should consult the pre-medical advisor early in their undergraduate career for help in planning a program. An appointment with the advisor each semester is recommended strongly. In addition to providing a long-term academic plan, your advisor will provide you with information about the non-academic components necessary to become a competitive applicant for medical school; and, how and when to apply for medical school.

Students must plan to complete a bachelor's degree prior to entering medical school. Fewer than 3% of applicants, nationwide, are admitted without a degree.Â

Almost all medical schools require that applicants take the Medical College Admission Test (MCAT). Pre-medical students normally should arrange to take this test at the end of their junior year. The pre-medical advisor can provide information regarding the administration of this test.

Most medical schools consider the following as minimal preparation for admission: 1 year of English; mathematics at least through pre-calculus; 2-2 ½ years of chemistry, including inorganic chemistry, organic chemistry, and biochemistry; 1 year of biology (more is advised); 1 year of physics. For most medical schools, science courses must include laboratory work.

Effective 2015, the MCAT added a social/behavioral science component and additional chemistry. To be well prepared for the MCAT, students are advised to complete Psych 101, Sociology 101, and PH 101 (as well as other courses selected in consultation with the premed advisor) and Chemistry 501 (biochemistry). Other classes, such as Communication, are more frequently being strongly recommended or required by various medical schools.

Some medical schools specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, pre-medical students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly. A list of all medical college admission requirements is located in the College advising office.

Science Courses That Satisfy Medical School Admission Requirements:

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
One advanced course in Bio Sci with lab		4-5
Chem 102	General Chemistry	5
Chem 104	General Chemistry and Qualitative Analysis	5
Chem 343	Organic Chemistry	3
Chem 344	Organic Chemistry Laboratory	2
Chem 345	Organic Chemistry	3
Chem 501	Introduction to Biochemistry	3 (required at UW-Madison Medical School)
Math		4 (required at the Medical College of Wisconsin)
Physics 120	General Physics I (Non-Calculus Treatment)	4
Physics 121	General Physics Laboratory (Non-Calculus Treatment)	1

Physics 122	General Physics II (Non-Calculus Treatment)	4
Physics 123	General Physics Laboratory (Non-Calculus Treatment)	1
or		
Physics 209	General Physics I (Calculus Treatment)	4
Physics 210	General Physics II (Calculus Treatment)	4
Physics 214	Lab Physics I (Calculus Treatment)	1
Physics 215	Lab Physics II (Calculus Treatment)	1
or		
Physics 219	Physics I: Calculus-Based, Studio Format	5
Physics 220	Physics II: Calculus-Based, Studio Format	5
Statistics	Any statistics course	3 (required at UW-Madison Medical School)

Although the courses listed above are mandatory for admission to almost all American medical schools, the rest of the program can be whatever the student wishes. Students are not required to major in biology or chemistry in order to gain admission to medical school.

Students who pursue this field of study also may be interested in the Pre-Medical Certificate Program described elsewhere in this catalog.

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Pre-Optometry

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UWM offers all of the prerequisite coursework necessary for students to apply to accredited optometry programs in the United States. There currently are no optometry schools in Wisconsin; the closest one is in Chicago, Illinois. Undergraduate preparation for optometry requires a strong foundation in the sciences and mathematics and a background in the humanities and social sciences.

Although it is possible to enter an optometry program after completing the necessary science and math courses before earning the bachelor's degree, it is a very rare situation. The majority of students accepted into optometry programs have completed their bachelor's degree.

Entrance to an optometry program is very competitive. Applicants must take the Optometry Admission Test (OAT). The OAT is a standardized examination designed to measure general academic ability and comprehension of scientific information. At least one year of college education, which should include courses in biology, general chemistry, organic chemistry, and physics, is required prior to taking the OAT. Most students, however, elect to complete two or more years of college prior to taking the exam.

Although specific admission requirements may vary among programs, recommended coursework includes:

- One year (two semesters) general biology with lab (Bio Sci 150 and 152)
- One year (two semesters) Anatomy and Physiology (Bio Sci 202 and 203)
- Microbiology
- Biochemistry
- One year (two semesters) general chemistry with lab (Chem 102 and 104)
- One year (two semesters) organic chemistry with lab (Chem 343, 344, and 345)
- One year (two semesters) physics with lab (Physics 120/121 and 122/123 or Physics 209/214 and 210/215)
- Calculus
- Statistics
- Psychology 101

Other common course requirements include (but are not limited to and may vary by program): anatomy and physiology, cell biology, molecular biology, and immunology.

Due to the variance in admission requirements, it is recommended that students consult with the Pre-Optometry Advisor every semester.

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Pre-Physician Assistant

Dorrie Van Kerkvoorde, *Senior Academic Advisor, Student Academic Services, Pre-PA Advisor*, (414) 229-4654, unertl@uwm.edu, uwm.edu/letters-science/programs?discipline=Pre-Physican+Assistant.

Students wishing to become a physician assistant should consult the pre-PA advisor early in their undergraduate career for help in planning a program. An appointment with the advisor each semester is strongly recommended. Later, the advisor also can assist students in the application process.

The vast majority of PA programs in the country are highly competitive master's degree programs and take 2-3 years to complete once admitted to the professional program. Many, but not all, PA schools require that applicants take the Graduate Record Exam (GRE). Significant clinical exposure to patient care is required to become a competitive candidate for most PA programs. Students are strongly encouraged to work or volunteer in a healthcare setting on an ongoing basis.

Requirements for admission to PA schools vary widely. However, many PA schools consider the following as minimal preparation for admission: 1 year of English; mathematics through pre-calculus and statistics; 2-3 years of chemistry, including inorganic and organic chemistry and biochemistry; and several biology courses (see below). Physics is rarely required.

Many PA schools specify additional courses as part of the minimal preparation for admission. Therefore, pre-PA students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly.

Courses That Typically Satisfy PA School Admission Requirements:

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
Bio Sci 202*	Anatomy and Physiology I	4
Bio Sci 203*	Anatomy and Physiology II	4
Bio Sci 101	General Survey of Microbiology	4
or		
Bio Sci 383	General Microbiology	4
Chem 102	General Chemistry	5
Chem 104	General Chemistry and Qualitative Analysis	5
Chem 343	Organic Chemistry	3
Chem 344	Organic Chemistry Laboratory	2
Chem 345	Organic Chemistry	3
Chem 501	Introduction to Biochemistry	3
Psych 101	Introduction to Psychology	3
HS 222**	Medical Terminology	3
Math – a semester of pre-calculus or calculus		4
Statistics – any statistics course		3

Although the courses listed above are often required for admission to almost all PA schools, the rest of the program can be whatever the student wishes. Students are not required to major in Biological Sciences or Chemistry in order to gain

admission to PA school.

* Some PA schools may have a three- to five-year expiration date on anatomy and physiology coursework. Please consult with the pre-PA advisor and PA schools of choice regarding your individual circumstances.

** Some PA schools may have a five-year expiration date on medical terminology coursework. Please consult with the pre-PA advisor and PA schools of choice regarding your individual circumstances.

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Pre-Pharmacy

Laura Stark, *Senior Academic Advisor, Student Academic Services, Pre-Pharmacy Advisor, (414) 229-4654, starkl@uwm.edu*

UWM offers all of the prerequisite coursework necessary for students to apply to professional pharmacy schools/colleges throughout the country. The University also offers a unique course for pre-pharmacy students entitled "Introduction to the Practice of Pharmacy." This course combines lectures with clinical rotations through a variety of actual pharmacy settings.

There are three pharmacy programs in the state of Wisconsin, one at the University of Wisconsin-Madison, one at Concordia University of Wisconsin (Mequon, WI), and a new three-year program opening fall 2017 at the Medical College of Wisconsin (Wauwatosa, WI).

Entrance to pharmacy school is very competitive and requires strong grades and satisfactory scores on the Pharmacy College Admission Test (PCAT). Although specific admission requirements may vary among schools, the following minimum science requirements are universal:

- One year (two semesters) general biology with lab (Bio Sci 150 and 152);
- One year (two semesters) general chemistry with lab (Chem 102 and 104);
- One year (two semesters) organic chemistry with lab (Chem 343, 344, and 345);
- One semester physics with lab (Physics 120/121 or Physics 209/214); and
- One semester of calculus (Math 231 or Math 221 or Math 211).

Other common course requirements include (but are not limited to) the following:

- English 101 and 102 (see advisor for additional information relating to UW-Madison's pharmacy program);
- Anatomy and physiology (Bio Sci 202 and 203);
- Microbiology (Bio Sci 101 and/or 383);
- Biochemistry (Chem 501);
- Statistics (MthStat 215 or Bio Sci 465);
- Coursework in social sciences (Econ 103 or 104, Anthro 102 or Sociol 101, Psych 101);
- Coursework in humanities (e.g., history, philosophy);
- Coursework in communication (Commun 101, 103, 105, 350); and
- Coursework designated as satisfying the cultural diversity requirement.

Due to the variance in admission requirements, it is very important that students consult with the pre-pharmacy advisor

every semester.

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Pre-Podiatry

Patricia Cobb, *Senior Student Services Coordinator, Student Academic Services, Premedical Advisor*, HLT 131, (414) 229-3922, pacobb@uwm.edu, uwm.edu/letters-science/programs?discipline=Pre-Podiatry

Students wishing to become doctors of podiatric medicine (DPMs) should consult the pre-medical advisor early in their undergraduate career for help in planning a program. An appointment with the advisor each semester is recommended strongly. Later, the advisor also can assist students in the application process.

DPMs, also known as podiatrists, diagnose and treat disorders, diseases, and injuries of the foot and lower leg to keep this part of the body working properly. Podiatrists may prescribe drugs, order physical therapy, set fractures, and perform surgery as a routine part of their practice. Most podiatrists are in general practice; some specialize in surgery, orthopedics, primary care, or public health.

To practice podiatry, further education and training are required beyond the bachelor's degree. Upon completion of a bachelor's degree, students will enter a DPM program (Doctor of Podiatric Medicine). DPMs are licensed caregivers and can prescribe drugs and perform surgery.

The DPM is a four-year program after completion of the bachelor's degree. Most states then require a three year residency after the DPM is earned. Thus, you can expect to spend seven to eight years in school and hands-on training after college before you become a full-fledged podiatrist.

UWM offers a special admission track to the Rosalind Franklin University-Dr. William M. Scholl College of Podiatric Medicine. Students who successfully complete the admissions requirements are offered early review and preferential admission to the Doctor of Podiatric Medicine (DPM) program. In some instances, students can enter the DPM program after only three years of undergraduate study and transfer their first year of the DPM program back to UWM to complete their Bachelor's degree. Students who elect to follow a more traditional four-year plan, are still given the preferential admissions status.

There are only nine accredited schools of podiatry in the United States. While the stated admissions requirements may be just slightly below those for medical school, it is just as competitive to get into a podiatry program as it is to get into medical school because of the limited number of spaces available nationwide. You can make yourself an attractive candidate by keeping your grades as high as possible, compiling a portfolio of relevant experiences through volunteer work or part-time jobs, and honing your communication skills to prepare for the admissions interview, practicing for the MCAT standardized test, and building relationships with professors and supervisors who can provide letters of recommendation.

Suggested Classes:

- One year of general Biology with lab (Bio Sci 150, 152)
- One year of General Chemistry with lab (Chem 102, 104)
- One year of Organic Chemistry with lab (Chem 343, 344, 345)
- One year of Physics with lab (Physics 120/121 and 122/123)
- 6 credits of English (English 101, 102)
- Public Speaking (Commun 103)
- Introduction to Psychology (Psych 101)

It is also recommended that students take a few additional upper-level social/behavioral science courses.

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Other Pre-Professional Health Study

Students interested in chiropractic medicine, optometry, physician assistant, and podiatry careers can fulfill the admission requirements of these professional programs in the College of Letters and Science. Information concerning these requirements and the admission tests for the professional schools is available in the Student Academic Services office. Call (414) 229-4654 to schedule an appointment with the appropriate advisor.

See also the Colleges of Health Sciences and Nursing for information on health studies programs that students can complete at UWM.

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Pre-Veterinary Medicine

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uwm.edu/letters-science/programs?discipline=Pre-Veterinary

Students wishing to become veterinarians should consult the pre-vet advisor early in their undergraduate career for help in planning a program. Later, the advisor also can assist students in the application process.

Hands-on experience is a very important factor of the admissions decision at most schools of veterinary medicine. Students are strongly encouraged to participate in voluntary or paid vet-related activities. Working with a veterinarian also will help you decide if veterinary medicine is the career for you.

Applicants to most schools of veterinary medicine must complete a minimum of 60 credits of college coursework prior to the start of their first semester in veterinary school. These 60 credits must include the required courses listed below and 17-20 elective credits. Pre-vet students who decide to earn a bachelor's degree must fulfill all degree requirements. A majority of students admitted to American schools of veterinary medicine hold a baccalaureate degree. An especially well-prepared student occasionally is admitted at the end of the junior year, but pre-vet students should plan to fulfill all degree requirements.

All American schools of veterinary medicine require that applicants take the Graduate Record Examination (GRE). Pre-vet students normally should arrange to take this test at the end of their junior year. The pre-vet advisor can provide information regarding the administration of this test.

Some schools of veterinary medicine specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, pre-vet students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly.

Required Coursework for Admission to Schools of Veterinary Medicine:

Bio Sci 150	Foundations of Biological Sciences I	4
Bio Sci 152	Foundations of Biological Sciences II	4
Bio Sci 325	Genetics	3
Chem 102	General Chemistry	5
Chem 104	General Chemistry and Qualitative Analysis	5
Chem 343	Organic Chemistry	3
Chem 344	Organic Chemistry Laboratory	2
Chem 345	Organic Chemistry	3
(Some vet schools will accept Chem 341/342 instead of 343/344/345.)		
Chem 501	Biochemistry	3
Physics 120	General Physics I (Non-Calculus Treatment)	4
Physics 122	General Physics II (Non-Calculus Treatment)	4
(Some vet schools may require a physics lab, e.g., Physics 121 or 123.)		
Statistics (MthStat 215 or any Statistics course)		3
English (English 101, 102, or appropriate score on placement exam)		6
(Even if a student tests out of English, some vet schools require an additional writing course.)		

Although the courses listed above are mandatory for admission to almost all American schools of veterinary medicine,

the rest of the program can be whatever the student wishes. Students are not required to major in biology in order to gain admission to vet school.

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Russian and East European Studies

Faculty Coordinator: Christine Evans, *Assistant Professor of History*
Christine Wolf, *Advisor, Garland Hall 111, (414) 229-4846, cawolf@uwm.edu*

Students completing this program of study earn the Certificate in Russian and East European Studies. The certificate program is designed for students majoring in any field, but specifically for those majoring in Russian, political science, history, geography, and international studies, as well as for non-majors. Its purpose is to enable students interested in the Russian and East European area to take a coordinated series of courses and to receive a formal certificate signifying this specialization.

The Russian and East European Studies Certificate Program is open to all students seeking a bachelor's degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

To obtain the certificate, students must complete at least 18 credits including the requirements in either of the following two tracks:

Track One

1. 9 credits in upper-division courses from the appended list of courses in area history, political science, geography, and foreign languages and literature, or substitutes as approved by the committee.
2. Demonstrated mastery of one of the languages of the region, as measured by the committee. In the past, this level of proficiency was usually achieved by successfully completing 4 semesters of classroom study in the language.
Note: Should a student already have a demonstrated mastery of one of the languages in the area without needing formal coursework, he/she will be required to complete 9 additional credits in courses approved for the certificate.

Track Two

1. 9 credits in upper-division courses from the appended list of courses in area history, political science, geography, and foreign languages and literature, or substitutes approved by the committee.
2. An additional 6-9 credits in courses covering the area from the appended list of courses, or substitutes approved by the committee.

In both tracks, students must complete at least 18 credits in courses approved for the certificate, including at least 9 advanced (numbered 300 and above) credits completed successfully at UWM.

In both tracks, students must achieve a minimum grade point average of 2.750 in all courses taken for the certificate, including language courses.

Students should be aware that not all certificate courses are taught regularly. They are advised, therefore, to plan well ahead in choosing courses needed for the certificate. A maximum of 3 credits in advanced independent study courses (699) may be applied toward completion of certificate requirements. Other appropriate courses taught by the area

faculty, but not on the list, may be taken with the approval of the faculty coordinator. When necessary, requests for other substitute courses will be considered by the committee, provided they are made well in advance of graduation.

Exit Survey

Students in both tracks are required to complete an exit survey upon completion of their required coursework. The assessment process allows certificate students to reflect on their experiences while providing important information to help improve the program.

The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

Please note: The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

Courses Approved for the Certificate Program:

Ethnic 250	Selected Topics in Ethnic Studies: “Ethnic Processes and Nationalism – Russia and the Former U.S.S.R.” subtitle and other appropriate subtitles	3
Geog 330	Europe: East and West	3
Hist 239	Poland and Its Neighbors, 1795-1914	3
Hist 295	Historical Encounters (with Russian and/or East European subtitle)	3
Hist 340	Early Russia Through Ivan the Terrible, Peter the Great, and Catherine the Great	3
Hist 341	Imperial Russia	3
Hist 343	Russia Since 1917	3
Hist 345	The Modern Balkans: War and Democracy	3
Hist 346	Poland and Its Neighbors, 1914-1945	3
Hist 348	Poland and Its Neighbors, 1945 to the Present	3
IntlSt 550	Senior Seminar in International Studies (with appropriate subtitle)	3
Polish – all courses		
Pol Sci 302	Politics of Eastern Europe	3
Pol Sci 310	Russian and Post-Soviet Politics	3
Pol Sci 312	Politics of Authoritarian Regimes	3
Pol Sci 333	Seminar in Comparative Politics (with Russian and/or Eastern European subtitle)	3
Russian – all courses		

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Scandinavian Studies

Veronica Lundback, *Lecturer, German, Department of Foreign Languages and Literature, Coordinator; CRT 896, (414) 229-4547, lundback@uwm.edu*

The Scandinavian Studies Certificate Program is open to all students seeking a bachelor's degree from UWM and to students who previously received a bachelor's degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree receive the certificate upon completion of the program requirements.

To complete the certificate, students must earn a minimum GPA of 3.000 in 18 credits of Scandinavian Studies courses, as listed below.

The majority of the certificate requirements may be completed at Mälardalen University, UWM's sister university in Sweden. Students attending Mälardalen University pay UWM tuition and take courses on the Swedish language and Scandinavian culture. Students also may take courses in pursuit of their other academic interests, either in Swedish or in English.

Scandinavian Languages: 6 credits

ScndvSt 101 (German 180)	First Semester Swedish	3
ScndvSt 102 (German 180)	Second Semester Swedish	3
ScndvSt 203 (German 180)	Third Semester Swedish	3
ScndvSt 204 (German 180)	Fourth Semester Swedish	3

Scandinavian Studies: 12 credits (may include additional language courses)

Courses may also be selected from the approved list (below) or from other appropriate courses identified and approved by the program coordinator.

CompLit 240	Norse Mythology	3
Geog 239	Geography of Scandinavia	3
German 114	Scandinavian Life and Culture	3
German 115	Seminar on Scandinavian Culture: (subtitle)	3
German 270	German Myths and Legends: "The Vikings" subtitle	3
German 699	Independent Study: "Hans Christian Andersen" and/or "Nineteenth Century Scandinavian Literature" subtitles (Additional appropriate courses may be offered under this rubric.)	3
Hist 371	Topics in European History: "History of the Vikings" subtitle	3
Philos 433	Nineteenth Century Philosophy	3
or		
Philos 435	Existentialism	3
or		
Philos 453	Special Topics in the History of Modern Philosophy: (with appropriate subtitle)	3

Scandinavian studies courses completed elsewhere, with the approval of the program coordinator, will be accepted in partial fulfillment of the requirements of the certificate.

Courses

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Spanish for Health Professionals

M. Estrella Sotomayor, *Senior Lecturer, Spanish and Portuguese, Coordinator, CRT 702*, mes@uwm.edu

The Spanish for Health Professionals (SHP) Certificate is designed to provide undergraduate students with the linguistic skills and cultural sensitivity that they need to help Spanish-speakers negotiate the healthcare system successfully. Specifically, the goal of the program is to prepare students with the following:

- expertise in the language of healthcare, in Spanish, including colloquial Spanish;
- understanding of cultural differences that impact the delivery of healthcare services to Hispanics;
- knowledge of the healthcare concerns of many different groups of Spanish-speakers.

Though housed in the College of Letters and Science, this interdisciplinary program will include coursework from the College of Health Sciences and the Schools of Nursing and Social Welfare in addition to courses from several L&S departments. The curriculum is built around a core of two specialized Spanish courses appropriate for individuals in any area of healthcare or whose work brings them in contact with structures in the healthcare system. A wide spectrum of elective courses will allow students to tailor the certificate to their individual needs and interests.

The program also contains a strong element of learning outside the classroom. One of the required courses in the program (Spanish 338) has a service-learning component that provides students with an immersion experience at the local level. Another (Spanish 388) requires a number of hours of shadowing a professional medical translator or interpreter throughout the semester. Additionally, students will be encouraged to participate in study abroad programs to provide them with an immersion experience at an international level. These external learning opportunities will reinforce students' classroom experiences, enhance their understanding of the populations they will be serving, increase their language proficiency to make them more marketable for well-paying jobs, and reward them with the satisfaction of knowing they will be providing a much-needed service to the largest minority group in our society.

The focus of this program is not to train translators or interpreters, but rather to give healthcare professionals a sufficiently well-developed vocabulary of health-related terms in Spanish that will allow them to communicate with Spanish-speaking patients, to build trust with those patients, and to understand issues unique to non-English speakers trying to negotiate the healthcare system.

Eligibility

The Spanish for Health Professionals Certificate is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to individuals who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree candidates, individuals must meet regular University admissions requirements.

Program Requirements

There are two tracks in the Certificate, a language-intensive track for students in health professions areas who are interested in working with Hispanic populations and a health-focused track for students with some Spanish competency who desire familiarity with the health-related vocabulary in Spanish. To obtain the certificate, students must complete at least 18 credits in courses approved for the Spanish for Health Professionals certificate, with at least 12 credits taken in residence at UWM and a minimum of 9 of the residence credits taken in L&S courses at the advanced level (courses numbered 300 and above). A maximum of 6 credits in a combination of independent study, internship, and study abroad courses may count toward the certificate. Students must earn a 2.500 GPA in all certificate courses, including transfer

work, and in the courses for the certificate taken at UWM. Courses for the certificate may not be taken on a credit/no credit basis. The certificate requirements are as follows:

Spanish for Health Professionals, Language-Intensive Track

(Not available to Spanish majors and minors; they must select the health-focused track.)

Required Courses (18 cr)

Spanish 308	Advanced Writing and Reading	3
Spanish 318/319	Advanced Speaking and Listening	3
Spanish 338	Spanish for Health Professionals I	3
Spanish 388	Health Issues in the Hispanic World	3
Electives	6 credits from any courses in the electives group listed for the health-focused track.	

Spanish for Health Professionals, Health-Focused Track

The Health-Focused Track requires completion of at least 18 credits as follows:

Required Courses (6 cr)

Spanish 338	Spanish for Health Professionals I	3
Spanish 388	Health Issues in the Hispanic World	3

Elective Courses (12 cr)

Students must complete at least 9 credits in ONE (1) of the following clusters. The remaining 3 cr can be taken from any cluster or the general electives.

Health Communication

Commun 381	Health Communication	3
Commun 481	Interpersonal Issues in Health Communication	3
Commun 581	Health Communication Interventions	3
JAMS 645	Health and the Media	3

Pharmaceuticals, Medicine, and Drugs

Anthro 443	Medicine and Pharmaceuticals in the Golden Age	3
HCA 212	Drugs Used and Abused	3
Psych 454	Psychopharmacology and Addiction	3

Health Care Delivery Policy

Econ 450	Health Economics	3
HCA 502	Healthcare Delivery Systems: National and International Perspectives	3
Philos 244	Ethical Issues in Health Care: (subtitle)	3
Urb Std 639	Healthcare and Public Policy in the United States	3

Health: A Social Science Perspective

Anthro 440	Medical Anthropology	3
ComSDis 210	Survey of Communication Disorders (SS*)	3
Psych 555	Health Psychology	3
Sociol 282	Sociology of Aging	3
Sociol 331	Sociology of Healthcare	3

Health: A Natural Science Perspective

Bio Sci 350	Human Parasitology	4
BMS 232	Introduction to Nutrition (NS*)	3
HS 101	Introduction to Health and Disease	2

* As determined by the certificate program coordinator.

General Elective Courses

BMS/Kin 260	Introduction to Complementary and Alternative Medicine	3
HCA 307	Epidemiology for the Health Sciences	3
Nurs 101	Cultural Diversity in Healthcare (CD SS)	3
Nurs 110	Introduction to Global Health	3
PH 101	Introduction to Public Health	3

Study abroad courses in Spanish-speaking countries may be accepted with the approval of the Certificate Program Committee. Other courses not on this list but relevant to Spanish for Health Professionals may be accepted with the

approval of the Certificate Program Committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Committee. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

Awarding the Certificate

Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and non-degree students will receive the certificate upon completion of the program requirements.

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Adult/University-Level TESOL (Teaching English to Speakers of Other Languages)

Sandra Pucci, Associate Professor, Linguistics, CRT 537, (414) 229-6166, pucci@uwm.edu

The Adult/University-Level TESOL Undergraduate Certificate Program is designed to meet the needs of students who wish to teach English as a Second Language (ESL) to adults or university-level students abroad. The program is open to undergraduates with at least junior standing, to post-baccalaureate special students, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular University admission requirements. Graduate students or post-baccalaureate non-degree students should pursue instead the "Adult/University-Level TESOL Graduate Certificate." Training in the graduate certificate program is more rigorous, and some credits earned can be transferred to the Linguistics Department MA program.

Admission

Students who wish to apply to the program should submit the following materials to the TESOL Certificate Program coordinator in the Department of Linguistics:

- a. Adult/University-Level TESOL Undergraduate Certificate Program application form (available from the TESOL Certificate Program Coordinator);
- b. Transcripts of all college-level academic work, with evidence of a GPA of 2.500 or better;
- c. A statement of purpose; and
- d. Two letters of recommendation from persons knowledgeable about the applicant's recent academic and/or work experience.

Applicants who are not native speakers of English also should submit scores of least 550 on the TOEFL exam and 45 on the TSE.

Credits and Courses

Students are required to complete the six courses (18 credits) plus teaching internship (3 credits) outlined below. All credits must be completed with a GPA of 3.0 or better.

Linguis 350	Introduction to Linguistics
Linguis 410	Literacy, Grammar, and Methodologies in ESL Education
Linguis 420	Introduction to Second Language Acquisition
English/Linguis 565	Introduction to Adult/University-Level TESOL

À

One of the following two courses:

Linguis 430	Language and Society
Anthro/Linguis 570	Issues in Bilingualism

One elective selected from the following:

English 404	Language, Power, and Identity
Linguis 415	First Language Acquisition

Linguistics 460	Sounds and Sound Systems
Linguistics 464	Word and Sentence Structure
Linguistics 468	Language in Its Various Forms: (subtitle)
Linguistics 470	Historical/Comparative Linguistics
Linguistics 560	Advanced Phonology
Linguistics 564	Advanced Syntax

The following practicum course:

English/Linguistics 569 Practicum in Teaching ESL to Adult Learners

The teaching practicum is completed at one of the institutions affiliated with the certificate program. The site of the internship may be chosen by the student, but it must be approved by the certificate program staff. The student is expected to complete between 60 and 80 hours of supervised teaching over a period of a semester.

Undergraduate students concurrently completing a bachelor's degree receive the certificate upon completion of their degree requirements; post-baccalaureate special students and non-degree students receive the certificate upon completion of the required coursework and internship.

Students who previously have taken any of the required courses while enrolled as non-degree undergraduate students or students in other undergraduate programs at UWM may transfer the credits earned into the certificate program, so long as the courses have been taken within the last five years. Students who have taken comparable undergraduate-level courses at other institutions may be allowed to transfer in up to 6 credits of coursework, upon approval of the certificate program coordinator.

There is a time limit of three years from initial enrollment for completion of the certificate.

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Translation and Interpreting Studies

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Translation and Interpreting Studies (TIS) offers a Master of Arts in Language, Literature, and Translation (MA) with a concentration in Translation or in Interpreting; or a graduate Certificate in Translation or in Interpreting. TIS also offers coordinated degrees: MA with a concentration in Translation/Master of Library and Information Science, and an MA with a concentration in Translation/Master of Business Administration. Finally, TIS offers five-year BA/MA programs with undergraduate majors in French, German, or Global Studies, and an MA degree with a concentration in Translation. Undergraduate students interested in translation, or those who are proficient in a language other than English and would like to supplement their majors with career-relevant work related to translation, may enroll in Translation courses numbered below 700. For further information on translation, contact Lorena Terando, CRT 807, (414) 229-5968, terando@uwm.edu.

[Courses \(TRNSLTN\)](#)

Faculty and Staff

Viktorija Bilic, Asst. Prof., PhD
Heidelberg University, Germany

Amy Olen, Lect., PhD
University of Texas, Austin

Kate Scholz, Lect., MA
University of Minnesota

Lorena Terando, Assoc. Prof., PhD
State University of New York at Binghamton

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Urban Studies

Urban Studies is a major offered by the Urban Studies Program. It provides the opportunity for students to explore scholarship on cities, suburban communities, and metropolitan regions with an interdisciplinary lens. See the Urban Studies section of the catalog for more details concerning this major program.

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College of Letters and Science

Urban Studies Certificate

James Harris, *Associate Director, Urban Studies Programs, Coordinator, BOL 702, (414) 229-4629, jmh@uwm.edu*

The Certificate in Urban Studies provides the undergraduate student with a coordinated core of courses that focus on urban issues and policy alternatives examined from a variety of humanistic, social scientific, and professional perspectives. Particular emphasis is placed on the impact of gender, racial, and ethnic diversity within the context of urban policy choices and delivery. This certificate will be of interest especially to those students considering careers in urban areas and as a supplement to majors in the arts and sciences or professions.

The urban studies certificate program is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements.

Program Requirements

1. Completion of 18 credits in approved urban studies courses with a minimum GPA of 2.500.
2. Completion of Urb Std 250 (Exploring the Urban Environment), Urb Std 193 (First-Year Seminar), or Urb Std 360 (Perspectives on the Urban Scene).
3. Of the 18 credits, 6 must be in the humanities and 6 in the social sciences, and 9 must be at the 300 level or above taken in residence at UWM. It is recommended that the student also complete one course in the natural sciences.
4. No more than 9 credits from any one department outside Urban Studies may count toward the certificate.
5. A maximum of 6 credits in independent study may be taken. In the senior year, a student may plan an independent study course to synthesize previous work in urban studies.
6. An internship in Urb Std 289 or 489 is recommended highly.
7. While students may elect courses outside the College of Letters and Science to count toward the certificate, at least 12 credits must be completed in L&S courses, at least 6 of these at the 300 level or above.
8. Credits earned at other institutions in equivalent urban studies programs and accepted by UWM as transfer credits may count in partial fulfillment of the certificate requirements.

Urban Studies Approved Courses

The following courses in the College of Letters and Science are approved to count toward the Urban Studies Certificate. Each semester, the Advisory Committee will review and approve variable content course sections for the Certificate. Contact the Urban Studies Program for the most current list of approved courses.

Africol 300	Urban Violence
Africol 319	History of Blacks in the American City
Africol 341	Black Politics and City Government
Africol 372	African American Literary Movements: Harlem Renaissance
Anthro 022	Ancient Cities of the Americas
Anthro 431	Urban Anthropology
Arch 584	Urban Landscape Architecture
ArtHist 106	Art Cities of Europe
ArtHist 360	Modern Architecture II: The Rise of Modern Architecture
ArtHist 361	Modern Architecture III: Contemporary Architecture

ArtHist 412	Cities and Sanctuaries of Ancient Greece
ArtHist 425	Romanesque Architecture
ArtHist 426	French Gothic Architecture
ArtHist 429	English Medieval Architecture
ArtHist 431	Renaissance Architecture in Italy
ArtHist 458	A Comparative History of Architecture and Urbanism: (subtitle)
ArtHist 459	American Architecture
ArtHist 461	Early Modern Architecture in the Midwest
ArtHist 462	Frank Lloyd Wright
CompLit 230	Literature and Society: (subtitle)
CompLit232	Literature and Politics: (subtitle)
Crj Jst 370	Criminal Justice Administration
Crj Jst 372	Criminal Justice Policy and Community
Dance 370	World Movement Traditions: "Hip Hop" subtitle
Econ 323	Urban Economics
Ed Pol 113	The Milwaukee Community
Ed Pol 114	Community Problems
Ed Pol 203	Communities and Neighborhoods in America
Ed Pol 401	Foundations of Community-Based Organizations
Ed Pol 500	Sociology and the Policy of Urban Communities and Schools
Ed Pol 503	Foundations of Community-Based Organizations
Ed Pol 507	Action Research on Milwaukee Institutions
English 248	Literature and Contemporary Life: "Mapping the City" subtitle
English 394	Theories of Mass Culture
Geog 114	Geography of Race
Geog 140	Our Urban Environment: Introduction to Urban Geography
Geog 297	Study Abroad: "Urban Environmental Changes in Guatemala" subtitle
Geog 440	City Systems and Metropolitan Areas
Geog 443	Cities of the World: Comparative Urban Geography
Geog 497	Study Abroad: "Urban Environmental Changes in Guatemala" subtitle
Geog 520	Physical Geography of the City
Geog 540	Globalization and the City
Geog 564	Urban Environmental Change and Social Justice
Geo Sci 465	Advanced Environmental Geology
Geo Sci 466	Advanced Environmental Geology Laboratory
German 647	Seminar on Themes and Motifs in German Literature: "Cities of the German-Speaking World" and "Stories from Urban Landscapes of Ireland and Germany" subtitles
Global 321	The Global City in History
Global 421	Cities in the Global Economy
Hist 192	Freshman Seminar: "Living in Ancient Rome" and "The Burbs: History of American Suburbs" subtitles
Hist 200	Historical Roots of Contemporary Issues: "Making of the American Ghetto" subtitle
Hist 303	A History of Greek Civilization: The Greek City-State
Hist 307	A History of Rome: The Republic
Hist 308	A History of Rome: The Empire
Hist 371	Topics in European History: "Rome in the Age of Constantine – Society and Culture" subtitle
Hist 404	Topics in American History: "The Wire" subtitle
Hist 436	Immigrant America Since 1880
Hist 440	History of the American Working Classes
Hist 450	Growth of Metropolitan Milwaukee
Hist 460	The History of Poverty in America
Hist 463	History of the American City

Hist 595	The Quantitative Analysis of Historical Data
Hist 600	Seminar in History: “American Suburban History” and “Milwaukee and the World” subtitles
Linguis 432	Urban Dialects
Philos 237	Technology, Values, and Society
Philos 355	Political Philosophy
Pol Sci 213	Urban Government and Politics
Pol Sci 387	Seminar in American Politics: “Municipal Finance” subtitle
Pol Sci 413	Governing Metropolitan Areas
Pol Sci 450	Urban Political Problems
Pol Sci 452	Administrative Law
Soc Wrk 205	Social Welfare: A Societal Imperative
Soc Wrk 206	Society, Poverty, and Welfare Programs
Soc Wrk 630	Women, Poverty, and Welfare Reform
Sociol 193	Freshman Seminar: “College in the City” subtitle
Sociol 224	American Minority Groups
Sociol 307	Industrial Sociology
Sociol 323	Perspectives on Latino Communities
Sociol 324	Comparative Race Relations
Sociol 325	Social Change
Sociol 330	Economy and Society
Sociol 377	Urbanism and Urbanization
Sociol 450	Environmental Sociology
Sociol 472	Population and Society
Sociol 495	Seminar in Sociology: “International Urban Sociology” subtitle
Sociol 603	Urban Minority Communities
Sociol 604	Research in Urban Minority Communities: (subtitle)
Sociol 610	Reproduction of Minority Communities
Theatre 305	The Theatre Experience: “Out and About in Milwaukee” subtitle
UrbPlan	All U and U/G courses
Urb Std	All U and U/G courses
WGS 489	Internship in Women’s Studies

Awarding of Certificate

Students currently involved in baccalaureate studies who complete the requirements of the program successfully will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon successful completion of the program requirements.

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Women's and Gender Studies

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Carolyn J. Eichner, *Associate Professor of History and Women's and Gender Studies, Chair*

Women's and Gender Studies is an academic discipline that critically evaluates gender from an interdisciplinary perspective and challenges many traditional assumptions and theories about women that have excluded them from positions of power. It examines the practice and expression of gender in different societies and at different historical moments; it explores the various origins and articulations of gender differentiation; it traces the influence of gender expectations on individuals and it studies the interactions of gender and other differences in social, political, and cultural contexts. The feminist pedagogy used in Women's and Gender Studies courses empowers all students to become active learners and social change agents through discussion, written work, collaborative projects, and practical involvement beyond the classroom.

Students completing a BA with a major in Women's and Gender Studies will be able to analyze competing perspectives and integrate various bodies of knowledge across traditional academic boundaries. They learn to identify and assess gender-based assumptions and biases and to recognize their consequences on an individual, social, and cultural level. Students develop critical thinking skills as they examine the process of acquiring knowledge and learn to question not only the answers, but the questions as well. Women's and Gender Studies courses complement and enhance the training students receive in liberal arts and the professions. They may be taken to fulfill General Education requirements or as part of the offerings in many departments.

Women's and Gender Studies prepares students for careers in non-profit organizations, business, the creative arts, education, government and public policy, journalism, law, medicine, publishing, science, the social sciences, social work, and many other fields. Students who major or minor in Women's and Gender Studies are equipped for graduate study in many fields, including the social sciences, humanities, and professions. They may combine their interest in Women's and Gender Studies with many of the certificate programs offered at UWM or with another departmental major.

Students who are interested in the major or minor should consult with Women's and Gender Studies to make a formal declaration. For additional information, please contact Women's and Gender Studies, located in CRT 535, by phone at (414) 229-5918, or on the web at <http://uwm.edu/womens-gender-studies/>.

Course of Study: Major

The Women's and Gender Studies major requires 36 credits drawn from Women's and Gender Studies core and cross-listed classes. Students must complete six credits in humanities courses and six credits in social sciences courses approved for Women's and Gender Studies credit. It is recommended that students also complete three credits in the natural sciences and three credits in the fine arts. At least 15 credits in the major must be taken in upper-division

(numbered 300 or above) courses in residence at UWM. Completion of WGS 411 and either WGS 500 or 501 satisfies the L&S research requirement. Students must maintain a GPA of at least 2.500 in UWM major courses attempted. In addition, the College requires that students attain a 2.500 GPA in all major courses attempted, including any transfer work. Majors should consult regularly with their advisor in Women's and Gender Studies about their course of study.

The major requires completion of the following courses offered through Women's and Gender Studies:

WGS 200*	Introduction to Women's and Gender Studies: A Social Science Perspective	3
or		
WGS 201**	Introduction to Women's and Gender Studies: A Humanities Perspective	3
WGS 211	Foundations of Women's and Gender Studies Writing and Research	3
WGS 401*	Global Feminism	3
WGS 410**	Feminist Theory	3
WGS 411 (400)*	Women's and Gender Studies Research Methods	3
WGS 489*	Internship in Women's and Gender Studies	1-3
or		
WGS 699	Independent Reading (taken in the senior year)	1-3
or		
Any upper-level (numbered 300 and above) WGS or Women's and Gender Studies-related course approved by the Women's and Gender Studies Chair or Assistant Chair (undergraduate advisor)		
WGS 500*	Advanced Social Science Seminar in Women's and Gender Studies	3
or		
WGS 501**	Advanced Humanities Seminar in Women's and Gender Studies	3
or		
Philos/WGS 535	Philosophical Topics in Feminist Theory: (subtitle)	3

* Counts toward the major's social science requirement

** Counts toward the major's humanities requirement

An additional 15 credits, to reach a total of 36 credits, selected from WGS courses and/or cross-listed courses offered by other departments are required. Numerous courses in a wide variety of disciplines have been approved for cross-listing with Women's and Gender Studies. Disciplines include, but are not limited to, Africology; anthropology; art history; biological sciences; communication; comparative literature; economics; English; ethnic studies; film studies; Hebrew studies; history; Italian; journalism, advertising, and media studies; linguistics; philosophy; political science; psychology; sociology; Spanish; urban planning; nursing; business administration; art; music; criminal justice; social work; and education. For information about courses that currently are cross-listed, please contact Women's and Gender Studies.

Honors in the Major

Women's and Gender Studies majors who have maintained at least a 3.000 GPA overall, 3.500 GPA in all courses attempted for the major, and a 3.500 GPA in advanced-level (numbered 300 and above) courses that count toward the major are eligible to graduate with honors in the major. Students who believe they may qualify to graduate with honors in the major should apply to the Assistant Chair of Women's and Gender Studies.

Course of Study: Minor

Students who minor in Women's and Gender Studies are required to take 18 credits drawn from Women's and Gender Studies and cross-listed courses, at least 9 credits of which must be completed in upper-division (numbered 300 or above) courses in residence at UWM. Students are required to complete six credits in humanities courses and six credits in social science courses approved for Women's and Gender studies credit. In addition, students must attain a 2.500 GPA in all minor courses attempted, including any transfer work. The following courses are required for the minor:

WGS 200*	Introduction to Women's and Gender Studies: A Social Science Perspective	3
or		
WGS 201**	Introduction to Women's and Gender Studies: A Humanities Perspective	3
WGS 401*	Global Feminism	3
WGS 410**	Feminist Theory	3

* Counts toward the major's social science requirement

** Counts toward the major's humanities requirement

Courses

[Women's and Gender Studies \(WGS\)](#)

Cross-Listed Courses

Numerous courses in a wide variety of disciplines have been approved for cross-listing with Women's and Gender Studies. For information about currently cross-listed courses, please contact Women's and Gender Studies.

Faculty and Teaching Staff

Carolyn Eichner, Assoc. Prof., PhD, History, Chair

University of California, Los Angeles

Krista Grensavitch, Assoc. Lect., Dissertator, History and MA, Women's Studies

University of Wisconsin-Milwaukee

Xin Huang, Asst. Prof., PhD, Women's Studies

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Cheryl Kader, Sr. Lect., PhD, English

University of Wisconsin-Milwaukee

Gwynne Kennedy, Assoc. Prof., PhD, English

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Anna Mansson McGinty, Assoc. Prof., PhD, Geography

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Kathleen Miller-Dillon, MA, Sociology, Assistant Chair

University of Wisconsin-Milwaukee

Andrea Westlund, Assoc. Prof., PhD, Philosophy

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Criminal Justice

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Study in the field of criminal justice examines the component parts of criminal justice – police, courts, and corrections – and seeks to gain an understanding of the interdependencies among them. Courses emphasize the role of criminal justice agencies in society, particularly in relation to the impact of alternative criminal justice policies on society and social problems.

Admission

In addition to normal University admission requirements, students submit a separate application for admission to the criminal justice major when they have achieved junior standing. A cumulative GPA of at least 2.0 on all previous college work and completion of Crm Jst 150 are required for admission. Applications may be obtained from the Helen Bader School of Social Welfare Student Information Center, 11th floor of Enderis Hall.

Course of Study

Criminal justice intended majors spend their first two years building a liberal arts foundation and fulfilling proficiency requirements. Freshmen and sophomores may begin to take courses offered in the Helen Bader School of Social Welfare.

The major in criminal justice requires a minimum of 36 credits in criminal justice courses, and 27 credits in social science courses, for a minimum of 63 credits for the major. The Department requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work, to meet graduation requirements.

Required Courses

Crm Jst 110	Introduction to Criminal Justice	3
Crm Jst 271	Police Process	3
Crm Jst 273	Corrections Process	3
Crm Jst 275	Criminal Court Process	3
Crm Jst 305	Crime and Criminal Justice Policy	3
Crm Jst 370, 380, 410	Administrative Elective	3
or 671		
Crm Jst 662	Methods of Social Welfare Research	3
Crm Jst 663	Criminal Justice Capstone Seminar	3

(Soc Wrk 100 and Soc Wrk 206 count as electives in the criminal justice major.)

Social Science Requirements. A total of 27 credits in the social sciences is required, to include the following distribution:

1. 15 credits taken in a single area of concentration from one of the following: anthropology, economics, history, political science, psychology, or sociology. (Courses must be approved as General Education social sciences.) At least 6 of these credits must be at the upper division (300 level or above).
2. 12 credits taken in at least two other social sciences from the list above, outside the area of concentration. Other social sciences such as geography, philosophy, etc., are not included in the social sciences for the major, nor do they count in the 68-credit rule.

Fieldwork

Upon approval of the Criminal Justice Field Coordinator, the student may earn up to 6 credits for authorized field placements with various criminal justice agencies including police departments, court-related agencies, and correctional institutions.

Criminal Justice Minor

Students interested in a minor in criminal justice can pursue one of two tracks: a standard track or crime analysis track.

The standard minor track requires a minimum of 19 credits in criminal justice courses:

Crm Jst 110	Introduction to Criminal Justice	3
Crm Jst 150	Introduction to Research in Criminal Justice	1
Crm Jst 271	Police Process	3
Crm Jst 273	Correctional Process	3
Crm Jst 275	Criminal Court Process	3

The remaining 6 credits must be earned in courses at the 300 level or above. Credits earned in Crm Jst 311 (Field Experience) and Crm Jst 599 (Independent Reading) do not count toward the minimum number of credits required for the standard minor track.

The crime analysis minor track consists of 18 credits, with the following courses (or equivalents approved by the department chairperson) required:

Crm Jst 110	Introduction to Criminal Justice	3
Crm Jst 480	Criminal Evidence and Investigation	3
Crm Jst 510	Introduction to Crime Analysis	3
Crm Jst 520	Analysis-Oriented Technology: Spatial Data Analyses; Crime Mapping; ArcGIS	3
Crm Jst 530	Data-Driven Policing	3
Crm Jst 311	Field Experience Practicum	3

A minimum of 15 credits must be taken in residence at UWM.

Certificate Program in Forensic Sciences

The Criminal Justice Program in the Helen Bader School of Social Welfare cooperates with the Departments of Anthropology and Chemistry in the College of Letters and Science and the Biomedical Sciences Program in the College of Health Sciences to offer studies in forensic sciences. Certificates can be earned in Death Investigation, Forensic

Sciences, and Forensic Toxicology. For additional information, see the complete "Forensic Sciences" program description in the Inter-School/College section of this catalog.

Crime Analysis

The Department of Criminal Justice offers a specialization and a post-baccalaureate certificate in Crime Analysis. A sequence of courses will lead to a specialization in this growing area. Preparation includes a foundation in criminal justice and research methods; specialized coursework in crime analysis, analysis-oriented technology, and data-driven policing; and field placement in an agency setting with practicing professionals.

Course of Study: Specialization or Certificate in Crime Analysis

The specialization/certificate in Crime Analysis consists of 21 credits, with the following courses (or equivalents) required:

Crm Jst 110	Introduction to Criminal Justice	3
InfoSt 110	Introduction to Information Science and Technology	3
or		
InfoSt 120	Information Technology Ethics	3
Crm Jst 480	Criminal Evidence and Investigation	3
Crm Jst 510	Introduction to Crime Analysis	3
Crm Jst 520	Analysis-Oriented Technology: Spatial Data Analyses; Crime Mapping; ArcGIS	3
Crm Jst 530	Data-Driven Policing	3
Crm Jst 311	Field Experience Practicum	3

Students must complete all coursework within the sequence. A minimum of 15 credits must be taken in residence at UWM.

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Military Science

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Military Science Program

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Army ROTC

UW-Milwaukee students have the opportunity to participate in the Army Reserve Officers Training Corps (AROTC) at Marquette University. The AROTC program provides university students with leadership, management, technical, and tactical skills that will enable them to start their journey as commissioned officers in the United States Army, Army Reserve, or Army National Guard.

Army ROTC is not a major field of study. It is a program in which students pursue a baccalaureate degree of their choice and take AROTC courses in military-oriented subject matter. AROTC provides a general knowledge of the contemporary role of the Army in support of national objectives and a practicum in management and leadership skills. Credits earned in military science courses apply toward graduation requirements.

The Army ROTC program offers competitive two-, three-, and four-year scholarships to qualified students. Currently, the scholarships offered for UWM students cover full tuition and fees **or** room and board, \$1,200 a year for books, and a \$300-\$500 monthly stipend.

General Eligibility. To be eligible for an AROTC scholarship, students must:

- Be a United States citizen;
- Be a full-time student;
- Have no major civil convictions;
- Not be a conscientious objector;
- Be medically qualified;
- Have a minimum 2.5 GPA; and
- Have a minimum ACT score of 19 or SAT score of 950.

The Army ROTC program is divided into two parts: the basic course (freshman and sophomore years) and the advanced course (junior and senior years). The freshman year course currently is being offered at UWM; the remainder of the courses are offered at Marquette University. Credit hours earned at Marquette University are transferred to UWM student transcripts and count towards GPA and elective credit.

Basic Course. In the basic course, cadets learn basic military skills and receive the foundation for leadership and management skills that are expanded during the advanced course. The basic course is open to all full-time UWM students without any obligation to the Army.

Advanced Course. During the advanced course, cadets learn more extensive leadership and management skills, and they are placed into various leadership positions in the battalion. Cadets also develop skills and attributes that are

essential for all commissioned officers in the U.S. Army.

In addition to completing the military science courses, advanced-course students are required to attend the Advanced Leadership Course at Fort Lewis, Washington, during the summer between the junior and senior years. During this five-week camp, cadets are expected to apply all of the skills that they have learned in the AROTC program. In addition, cadets are offered the opportunity to compete for a chance to attend Airborne School, Air Assault School, or Cadet Troop Leadership Training (CTLT). CTLT is an "internship" in which cadets have a chance to see what a Second Lieutenant does on an active duty Army post.

To qualify for the Advanced Course, students must accomplish one of the following:

- Complete the two years of the basic course;
- Attend the Basic Leaders Course, a six-week camp at Fort Knox, Kentucky; or
- Complete U.S. Army Basic Training or its equivalent.

Field Exercises: Once a semester, all of the cadets in the program go to Fort McCoy, Wisconsin, to practice all of the skills that they have learned. Advanced course cadets also are given the opportunity to improve their leadership skills by being placed in various leadership positions leading other cadets.

Physical Training: Three times a week, cadets are required to attend physical training (PT). During PT, cadets do physical activities such as push-ups, sit-ups, and running. PT currently is conducted at both UWM and Marquette University.

For more information about enrolling in the Army ROTC program, contact army-rotc@uwm.edu or the Department of Military Science at Marquette University, (414) 288-7195, or www.marquette.edu/rotc/army.

Air Force ROTC

UWM students have the opportunity to participate fully in the Air Force Reserve Officers Training Corps (AFROTC) Program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, UWM offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers four- and three-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course.

General qualifications:

- Be a full-time student;
- Be a United States citizen (for scholarship appointment);
- Be in good physical condition;
- Be of good moral character;
- For pilot or navigator training, fulfill all commissioning requirements before age 29;
- For scholarship recipients, fulfill all commissioning requirements before age 31; and
- For non-scholarship students, fulfill all commissioning requirements before age 31.

General Military Course. The first- and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks and uniforms are provided free. The general military course is open to all students at UWM without advance application and does not obligate students to the Air Force in any way.

Field Training. AFROTC Field Training is offered during the summer months at Maxwell Air Force Base, Alabama, and provides leadership and officer training in a structured military environment. Major areas of study include physical

training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

Professional Officer Course. The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon college graduation. All students in the professional officer course receive a non-taxable subsistence allowance per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

Leadership Lab. Leadership Lab is a cadet-centered activity. It is largely cadet-planned and -directed, in line with the premise that it provides leadership training experience that will improve a cadet's ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information, and other services that will increase the performance and motivation of other cadets.

AFROTC College Scholarship and High School Scholarship Programs. While participating in AFROTC, scholarship students receive a stipend per month along with paid tuition, fees, and a fixed textbook reimbursement. To be eligible for either of these programs, students must:

- Be a U.S. citizen;
- Be at least 17 years of age on the date of enrollment and under 31 years of age on December 31 of the estimated year of commissioning;
- Pass an Air Force physical exam;
- Be selected by a board of Air Force officers;
- Have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic (applicants must not be conscientious objectors);
- Maintain a 2.5 grade point average.

High school students can apply for scholarships late in their junior year or early in their senior year. Information on Air Force ROTC and applications for Air Force scholarships are available at www.AFROTC.com. Scholarship applications will not be accepted after December 1 of the year before entering college.

For more information, contact the Department of Aerospace Studies at Marquette University, (414) 288-7682.

Naval ROTC

The Naval Science Department at Marquette University administers the Naval Reserve Officers Training Corps (NROTC) program. Graduates who complete all requirements will receive reserve commissions and serve on active duty in the Navy or Marine Corps with a minimum three-year commitment for non-scholarship students and five-year commitment for scholarship students.

Scholarships

NROTC offers two-, three-, and four-year scholarships to qualified applicants. Four-year scholarships are awarded on a national level to qualified high school applicants (visit www.nrotc.navy.mil for more information and to apply). Two- and three-year scholarships are awarded to students who have completed at least one, but not more than four, terms of college while a member of the NROTC Unit. Two-year scholarships for students who are entering their junior year and

have not previously been enrolled in the NROTC program also are available.

Students entering UWM with a four-year scholarship, earned on a competitive basis while still in high school, will receive full tuition, fees, laboratory expenses, a stipend for books, and a subsistence allowance of \$250 to \$400 per month, depending on class year. Necessary uniforms and textbooks for required Naval Science courses are issued as well.

Basic Requirements:

- Be a U.S. citizen;
- Not less than 17 years old by Sept. 1 of year starting college, and no more than 23 on June 30 of that year;
- Be of good moral character;
- Be a high school graduate;
- Be 27 or younger by June 30 of the year you will graduate;
- Be physically qualified by Navy/Marine Corps standards; and
- Achieve qualifying scores on the SAT or ACT
ACT: 22 verbal, 22 math (22 composite for Marine Corps)
SAT: 530 verbal, 520 math (1000 composite for Marine Corps).

Students not on scholarship can still participate in the NROTC College Program. They receive uniforms and Naval Science textbooks, and \$350 and \$400 per month during their junior and senior years, respectively. All College Program students are eligible to compete for Naval Education and Training Command scholarships. Students are selected on a competitive basis after completing at least one term as an NROTC College Program student. Selection boards meet semiannually in March and June to consider students based on their most recent term. Students may receive scholarship benefits for three or two academic years. Once selected, the students receive the same benefits and incur the same active duty requirements as students in the four-year scholarship program.

The Naval Science Department teaches Naval Science courses and supervises a midshipman-run drill program that instills leadership skills and professional development in all members of the midshipman battalion. All midshipmen are required to register for and participate in this two-hour weekly drill period, which occurs at the Marquette University Gymnasium. One Naval Science class each term is also required, with the exception of Nurse Corps and Marine Corps Options. Students enrolled in the program from UWM attend Naval Science classes at Marquette as "cross-town" students, while the rest of their major is completed on the UWM campus. Midshipmen on scholarship or in advanced-standing status also are required to attend a four- to six-week training period each summer. This summer training introduces midshipmen to the fleet and to the life of a junior Naval Officer. The summer training period also provides an orientation to each of the different warfare specialties available upon graduation (aviation, surface, submarine, and the Marine Corps).

All Navy Option scholarship students are required to complete one year of calculus by the end of their sophomore year, and one year of calculus-based physics by the end of their junior year. Navy Option college program students must complete one year each in mathematics and physical science. One course on World Cultural Awareness, one year of English, and either an American Military History or National Security Policy course also are required for all NROTC students.

All scholarships are awarded on the basis of merit and personal qualifications. Neither a Parents' Confidential Financial Statement nor a standard FAF is required for consideration for Naval ROTC scholarships.

For more information, contact the Department of Naval Science at Marquette University, (414) 288-7076, or visit our website at www.marquette.edu/rotc/navy.

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Social Work

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The bachelor's degree in social work is accredited by the Council on Social Work Education. Its primary objective is to prepare students for beginning generalist social work practice.

The program prepares students for potential employment in both public (federal, state, and county) and private social service agencies. A sample of career possibilities includes caseworker, psychiatric social worker, youth counselor, and alcohol/drug counselor.

Admission

In addition to the normal University admission requirements, students apply on a separate application for admission to the social work major when they achieve junior standing. A cumulative GPA of at least 2.5 on all previous college work is required for admission to the major. Applicants to the social work major also must have completed a minimum of 75 hours of related supervised volunteer or work experience. See an advisor for more information. Applications may be obtained from the Helen Bader School of Social Welfare Student Information Center, 11th floor of Enderis Hall.

Course of Study

The undergraduate social work major includes a pre-professional component. Social work intended majors spend their first two years building a liberal arts foundation and fulfilling proficiency requirements.

In addition to satisfying the liberal arts foundation requirements, the student must earn a minimum of 69 credits in social work or Helen Bader School of Social Welfare courses and social sciences. (A student can take courses in criminal justice and have them count toward the major as elective credit.)

Required Courses

Soc Wrk 100	Introduction to Human Services	3
Soc Wrk 206	Society, Poverty, and Welfare Programs	3
Soc Wrk 250	Human Behavior and the Social Environment	3
Soc Wrk 310	Social Work Methods I	3
Soc Wrk 410 ¹	Social Work Methods II	3
Soc Wrk 427 ²	Social Work Methods III	3
Soc Wrk 421 ¹	Field Education I	5
2	Field Education II	5

Soc Wrk 422		
Soc Wrk 604	Social Systems and Social Work Practice	3
Soc Wrk 662 ¹	Methods of Social Welfare Research	3
Soc Wrk 665	Cultural Diversity and Social Work	3
Soc Wrk or Crm Jst Electives		5
Total		42

¹ To be taken concurrently.

² To be taken concurrently.

No academic credit for life experience and previous work experience is granted in lieu of field placement.

All credit for required courses must have been earned within 10 years of graduation.

Social Science Requirements. A total of 27 credits in the social sciences is required, to include the following distribution:

1. 15 credits taken in a single area of concentration from one of the following: anthropology, economics, history, political science, psychology, or sociology. (Courses must be approved as General Education social sciences.) At least 6 of these credits must be at the upper division (300 level or above).
2. 12 credits taken in at least two other social sciences from the list above, outside the area of concentration. Other social sciences such as geography, philosophy, etc., are not included in the social sciences for the major, nor do they count in the 69-credit rule.
3. The student must have at least one course in each of the following content areas: social change, social organization and institutions, personality theory, biological processes, and ethnic/minority studies. The standard social work curriculum leaves enough flexibility in the choice of social science and elective courses to enable students to develop informal program options according to their interests.

Fieldwork

The field education sequence required for social work majors consists of two semesters of placement, beginning in the junior year. A total of 256 hours in the field is required each of the two semesters. The field courses are taken concurrently with the methods sequence. Students are required to maintain a grade of B or better in each social work methods and field course. When a student does not, the student's academic progress is reviewed by the chair of the Social Work Department. In certain cases, the student may be referred to the Faculty Review Panel and may not be allowed to continue in the major.

For further information, consult the Field Staff Office, Enderis Hall, Room 1075, (414) 229-6036; the Advising and Field Manuals; or the Student Information Center, 11th floor of Enderis Hall.

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365 Current Topics of Nursing: (Subtitled). 1-6 cr. U. Current thought, issues and research in nursing and implications for practice. | May be retaken with change in topic to max of 12 cr. Prereq: jr st or cons instr.

375 Genetics and Genomics for Health Professionals. 3 cr. U. Relationships between science of genetics, study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients. | Prereq: Admis to RN to BSN prog.

407 Foundations of Professional Nursing Practice. 3 cr. U. Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing/health care delivery are analyzed. Professional communication skills are enhanced. Writing emphasis course. | Counts as repeat of UWS NSG 341 & Nurs 407X. Prereq: admis to BSN @ Home Prog or cons instr.

441 Chronic Care Management. 3 cr. U. Exploration of interaction of biological, psychological, social, and environmental factors important to understanding management of chronic conditions at the individual, family, community, and societal levels. | Counts as repeat of Nurs 441X. Prereq: admis to BSN @ Home Prog or cons instr.

446 Research and Evidence-Based Practice. 3 cr. U. Introduces the importance of research to improve clinical practice, strategies to evaluate the quality of research and evidence, and increase integration of research into practice. | Counts as repeat of UWS Nsg 434 & Nurs 446X. Prereq: admis to BSN @ Home prog or cons instr, Math 105 (P).

447 Leadership and Management. 3 cr. U. Examines nursing leadership and management using relevant theories and concepts. Analyze decision-making in relation to communication, delegation, supervision and group process. | Counts as repeat of UWS Nsg 437 & Nurs 447X. Prereq: admis to BSN @ Home Prog or cons instr.

448 Mental Health Across the Care Continuum. 3 cr. U. This course focuses on nursing care of individuals, groups, and families experiencing acute and chronic mental health conditions across the lifespan and the continuum of care. | Prereq; admis to BSN @ Home Prog or con instr.

453 Information Management and Healthcare Technology. 3 cr. U. Utilize computer and information/decision science to support quality and safety in health care. Explore informatics issues and examine nursing's role in healthcare technology. | Counts as repeat of Nurs 453X. Prereq: admis to BSN @ Home Prog or cons instr.

454 (484) Community Health Nursing. 3 cr. U. Nursing care of populations and communities to facilitate optimal health outcomes. | Counts as repeat of UWS Nsg 444 & Nurs 454X. Prereq: admis to BSN @ Home Prog or cons instr.

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AD LDSP Administrative Leadership

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297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: jr st; cons instr; acceptance for Study Abroad Prog.

500 Administration of American Public Schools. 3 cr. U/G. |Prereq: jr st. Available as grad level only.

507 Introduction to Group Leadership. 3 cr. U/G. Concepts and theories of group and organizational leadership applied to problems of youth-serving organizations and student activities in secondary and post-secondary schools and colleges. |Prereq: jr st.

517 Introduction to Adult Education Practice. 3 cr. U/G. Objectives, organization and practices of postsecondary programs of lifelong learning, adult and continuing education, and community and public service programs. |Prereq: jr st.

537 Leadership and Management of Volunteer Programs. 3 cr. U/G. Introduction to volunteers and organizations which utilize them. Course emphasizes practical application of leadership skills needed for effective management and training of volunteers. |Prereq: jr st.

547 The Educational Dimensions of Practice with Older Adults. 3 cr. U/G. Current problems, issues and research relating to the development and organization of educational programs for older adults. |Prereq: jr st.

557 Foundations and Philosophy of WTCS in Wisconsin. 3 cr. U/G. History, philosophy, objectives, organization and legal bases for vocational education, with special emphasis given the movement in Wisconsin. |Prereq: jr st or vocational teachers or cons instr.

567 Supervision and Planning for Vocational and Technical Education. 3 cr. U/G. Social, economic, philosophical, and historical foundations of career education. Exploration of past, present and projected models. Strategies for program selection, community involvement, evaluation and management. |Prereq: jr st or cons instr.

577 Adult Literacy and Workforce Development. 3 cr. U/G. Analyzes the problem of adult low literacy and its effects on work force development; presents alternative procedures for providing educational programs.|Prereq: jr st.

579 Current Topics in Administrative Leadership: (Subtitled). 1-3 cr. U/G. Current problems, issues and research in administrative leadership and supervision and their implications for practitioners.|May be retaken w/chg in topic to max of 9 cr. Prereq: jr st.

581 Administration and Supervision in Early Childhood Programs. 3 cr. U/G. Analyzes, from a quality perspective, the administrative roles and responsibilities of various early care and education programs, and the groups with whom they have relationships.|Prereq: jr st.

582 Operations Management in Early Childhood Programs. 3 cr. U/G. An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.|Jointly offered with & counts as repeat of Ed Pol 582. Prereq: jr st; Ad Ldsp 581(P); or cons instr.

583 Financial Management and Planning in Early Childhood Programs. 3 cr. U/G. Identifies the principles of sound financial management and develops the ability to apply those principles to the financial planning and management of early childhood programs.|Prereq: jr st & Ad Ldsp 581(P); or cons instr.

586 Administrative Seminar: Leadership in Early Childhood Programs. 3 cr. U/G. Integrates and applies the concepts and skills acquired in the first five courses as demonstrated in the development of a major project by each student.|Prereq: jr st & Ad Ldsp 581(P); Ad Ldsp 582(P) or Ed Pol 582(P); Ad Ldsp 583(P); Ed Pol 584(P); CurrIns 585(P).

587 Serving Multicultural and Special Needs Learners. 3 cr. U/G. Examines the needs of multicultural and adult vocational special needs learners; explores strategies for revising instructional methods/approaches and program development.|Prereq: jr st.

591 Early Childhood Leadership: The Personal Disposition of a Leader. 3 cr. U/G. Leadership definitions and skills and the role of vision, emotional intelligence, resilience, optimism and reflective practice for successful early childhood leaders.|Prereq: jr st; completion of childcare credential or cons instr.

592 Early Childhood Leadership: Leading in Your Program. 3 cr. U/G. Leadership roles, responsibilities and skills necessary for leadership in staff development and excellence in early childhood programs.|Prereq: jr st; completion of childcare credential or cons instr.

593 Early Childhood Leadership: Leading in Your Community and the Field. 3 cr. U/G. Leadership skills necessary for leadership in communities and the profession with a focus on collaboration, interconnections, relationships, transformation and advocacy.|Prereq: jr st; completion of childcare credential or cons instr.

594 Early Childhood Leadership: Leading for Change. 3 cr. U/G. Transformational leadership, theories on change, action research, and advocacy strategies. Completion of action research project to effect change.|Prereq: jr st; completion of childcare credential or cons instr.

597 Program Development in Occupational Education. 3 cr. U/G. Technical, administrative, organizational, and participatory skills and knowledge associated with program development in occupational education for adults and adolescents.|Prereq: jr st.

598 Introduction to Workforce Education and Development. 3 cr. U/G. Foundations of workforce education and development; nature and role of education in preparing individuals for work.|Prereq: jr st.

605 Survey of Human Resource Development. 3 cr. U/G. Introduction to human resource development theories, principles, concepts, and practices.|Prereq: sr st.

607 Coordination of Staff Development and Training Program. 3 cr. U/G. Provides knowledge and skills required for the design, coordination and administration of staff development and training programs.|Prereq: jr st.

617 Leadership in Youth-Serving Organizations. 3 cr. U/G. Introduction to the philosophy and operations of youth-serving organizations, administration of programs, and the role of youth-serving organizations in the larger community.|Prereq: jr st.

630 Field Work in Schools, Agencies and Institutions. 2-6 cr. U/G. Field inquiry and experience in applied problems of administrative leadership in school administration, supervision or adult education in conjunction with seminar sessions to relate theory to practice.|May be retaken to max of 6 cr. Prereq: Ad Ldsp 517(P) or 702(P) or 757(657)(P); cons instr.

631 Emerging Research in Human Resource Development. 3 cr. U/G. Examines the role of research in Human Resource Development (HRD).|Counts as repeat of Ad Ldsp 779 with similar title. Prereq: jr st.

632 International Cross-Cultural Experiences in Developing Human Resources. 3 cr. U/G. Examining Human Resource Development (HRD) in international and global contexts.|Counts as repeat of Ad Ldsp 779 with similar title. Prereq: jr st.

647 Evaluation of Adult, Continuing, and Higher Education Programs. 3 cr. U/G. Provides an awareness, analysis, and synthesis of the purposes, methods, and procedures for evaluating diverse types of adult, continuing, and higher education programs, e.g., HRD, extension/outreach, etc.|Counts as repeat of Ad Ldsp 579 with similar title. Prereq: jr st.

667 Program Planning in Adult Education. 3 cr. U/G. Principles and processes affecting programming of adult education. Focus on planning, execution, and evaluation dimensions of the programming process.|Prereq: jr st; Ad Ldsp 517(P) or 757(657)(P).

687 Instructional Design and Teaching Strategies. 3 cr. U/G. Using an instructional design approach, students develop skills in selecting, using, and evaluating instructional strategies and procedures appropriate to particular domains of adult learning.|Prereq: jr st; Ad Ldsp 517(P); or cons instr.

691 Leadership Ethics in Multicultural Organizations. 1 cr. U/G. Introduction to the concept of ethics and leadership in multicultural organizations.|Counts as repeat of Ad Ldsp 579 with similar title. Prereq: jr st

692 Quality Management in Education. 1 cr. U/G. Introduction to the principles of quality management in education.|Counts as repeat of Ad Ldsp 579 with same topic. Prereq: jr st.

693 Decision Making in Multicultural Organizations. 1 cr. U/G. Introduction to individual planning and decision making in multicultural organizations.|Counts as repeat of Ad Ldsp 579 with title 'Planning and Decision Making Skills'. Prereq: jr st.

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AFRICOL Africology

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100 Black Reality: Survey of African-American Society. 3 cr. U. An introduction to key concepts, structures, and institutions in African-American societies.|Prereq: none.

102 Survey of African-American Literature. 3 cr. U. A survey of a variety of African-American literature.|Prereq: none.

111 Introduction to African-American History to 1865. 3 cr. U. African and African-American history to the Reconstruction period.|Prereq: none.

112 Introduction to African-American History, 1865 to the Present. 3 cr. U. African-American history from the Reconstruction era to the present.|Prereq: none.

125 Economics of the Black Community. 3 cr. U. A survey of key economic principles, and elements that structure economic behavior in the black community.|Prereq: none.

163 African-American Concept of Self. 3 cr. U. Survey of the cultural, social and psychological origins of the contemporary view African Americans have of themselves.|Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult the department chair.|May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

205 The Poetry of African, African-American, and Caribbean Writers. 3 cr. U. A survey of ideas, themes, values, beliefs, and attitudes in the poetry of African, African-American and Caribbean writers.|Prereq: soph st.

210 The African-American Novel. 3 cr. U. A study of the social and cultural significance of the African-American novel, with emphasis on genre, imagery, and dramatic irony.|Prereq: soph st.

215 Introduction to Black Social and Cultural Traditions. 3 cr. U. A consideration of the social and cultural traditions that ground the life experiences and prospects of black people.|Prereq: none.

220 Introduction to Statistics in Africology. 3 cr. U. The use of statistical methods and techniques in Africology. Data from the Afroworld (North and South America, Africa, and the Caribbean) will be analyzed.|Prereq: Math 102(P), 103(106)(P), 105(P), or 108(P) or score level 30 on math placement exam.

222 Research Methods in Africology. 3 cr. U. A survey of research methods and techniques, and the uses of the computer in data gathering and analysis in Africology.|Prereq: soph st; elementary stats course.

228 Introduction to Black Political Economy. 3 cr. U. A survey of the interplay of the basic political and economic categories that structure the form and content of black life in America.|Prereq: soph st.

232 Survey of African Societies and Cultures. 3 cr. U. A survey of continuities and changes in the social and cultural lives of the peoples of Black Africa.|Prereq: soph st.

235 African Americans and South Africa. 3 cr. U. The study of ideological, economic, religious, cultural, educational and political ties between African Americans and black South Africans from the 19th century to the present.|Prereq: soph st or cons instr.

250 Black Women and White Women in the Contemporary United States. 3 cr. U. The effect of economics, education, social structures and history on the role of black women in U.S. society.|Prereq: soph st.

261 Survey of African-American Political Philosophy. 3 cr. U. A survey of key ideas, concepts, arguments, problems, and issues in African-American political philosophy.|Prereq: soph st.

265 Psychological Effects of Racism. 3 cr. U. Psychological and socio-psychological effects of individualized and institutionalized racism on blacks and whites. Emphasis is placed on a range of interactions between blacks and whites.|Prereq: soph st.

289 Internship in Africology, Lower Division. 1-6 cr. U. Application of basic principles of Africology in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: 100- or 200-level Africol course; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: Africa in the Re-Configuring Global System. (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

300 Urban Violence. 3 cr. U/G. Analysis of the nature, causes, and consequences of urban violence; the possibilities and limits of violence in promoting the good of blacks will be scrutinized.|Prereq: jr st.

311 African Religious Thought and Social Organizations. 3 cr. U/G. A critical analysis of foundations from which complex social structures and institutions evolved in the diverse societies of the Afroworld.|Prereq: jr st.

312 The Church in African-American Life. 3 cr. U. A study of the socio-cultural significance of the church in the

evolution of the black community.|Prereq: jr st.

314 The School in African- American Life. 3 cr. U. A study of the socio-cultural significance of the school in the evolution of the black community.|Jointly offered with & counts as a repeat of Ed Pol 314(353). Prereq: jr st.

319 African American Urban History. 3 cr. U/G. A consideration of the contributions of blacks to the growth and development of the American city.|Prereq: jr st.

320 Black Cultures in Latin America and the Caribbean. 3 cr. U. African influence on Latin America and the Caribbean, and the cultures of black peoples in several areas, particularly Brazil, Cuba, Haiti, Jamaica, Trinidad, and Barbados.|Prereq: jr st.

321 Black Workers in the 21st Century. 3 cr. U/G. Analysis of scientific and technological changes in America since 1900, and their qualitative as well as quantitative impact on black productivity and participation in the work force.|Prereq: jr st.

322 Order and Disorder: The Quest for Social Justice. 3 cr. U/G. An analysis of the forms, purposes, and effects of order and disorder in relation to black people's quest for social justice.|Prereq: jr st.

323 Capitalism, Socialism, Nationalism and Fascism. 3 cr. U. An analysis of the political philosophies of capitalism, socialism, nationalism and fascism in relation to their significance for the organization of political societies in the Afroworld.|Prereq: jr st.

325 Africa/China Relations. 3 cr. U/G. Historical and emerging political and economic relationship between the African continent and China.|Counts as a repeat of Africol 565 w/similar title. Prereq: jr st.

326 Economic Problems of Black Business. 3 cr. U/G. Examination of major economic problems of black business; liquidity, credit, market shares, insurance, rents, mortgages, and location are analyzed in relation to black business performance.|Prereq: jr st.

329 Economic Growth and Sustainable Development in Africa. 3 cr. U/G. Economic development in African countries; poverty reduction strategies, role of education and health, Millennium Development Goals, agrarian systems, international trade; U.S. as key trading partner.|Prereq: jr st.

334 Survey of Black American and Black Brazilian Societies. 3 cr. U. Examines similarities and differences between peoples of African descent in the United States and Brazil, with reference to society, culture, and political economy.|Prereq: jr st.

341 Black Politics and City Government. 3 cr. U. An analysis of the impact of black politics on the decision-making process of, and delivery of goods and services by, state and local governments.|Prereq: jr st.

344 Global Black Social Movements. 3 cr. U/G. Analysis of leadership, ideology, and the structure of black political movements and organizations in the twentieth century.|Prereq: jr st.

350 The Black Family. 3 cr. U/G. An examination of the structure and functions of the black family in its urban and rural contexts.|Prereq: jr st.

351 Sexuality, Gender, and Health in Africa and the Diaspora. 3 cr. U. Drawing on cultural studies and social science approaches, this course asks the question of how health and illness is socially and culturally determined.|Prereq: jr st.

352 Extended Families in Black Societies. 3 cr. U. A critical cross-national/cross-cultural analysis of the structures and functions of black extended families in the Americas and Africa.|Prereq: jr st.

362 Philosophy and Thought in Africa and the Diaspora II. 3 cr. U. Philosophical foundations of the intellectual tradition and political ideas of Africa and the African diaspora after 1900.|Prereq: jr st.

369 Black Images and Mass Media. 3 cr. U. An evaluation of how the mass media have affected the psyche of Black people.|Prereq: jr st.

370 Forms of Black Expression. 3 cr. U. An analysis of elements of African traditions that have influenced the literature, music, art, dance, and folkways (in the Afro-world, particularly in the United States).|Prereq: jr st.

372 African-American Literary Movements: The Harlem Renaissance. 3 cr. U. A consideration of the historical and social forces that promoted the development of black literature during the period of the Harlem Renaissance.|Prereq: jr st.

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in the political economy, cultures, and societies of the Afroworld.|May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200 (P); cons Honors College dir.

411 Change in African-American Communities. 3 cr. U. An analysis of institutional and non-institutional forces that occasion change in black communities.|Prereq: jr st.

412 Blacks and the United States Constitution. 3 cr. U. An analysis of the Constitution's impact on blacks, and the body of law that has evolved from litigation involving the interests of black people.|Prereq: jr st.

414 The Black Woman in America, Africa, and the Caribbean. 3 cr. U. A comparison of the roles and impact of the black women on American, African and Caribbean societies.|Prereq: jr st.

416 Race and Social Justice in the United States. 3 cr. U. A study of the relation between race, injustice and social change in the United States.|Prereq: jr st.

417 Race, Class and Gender in Southern Africa. 3 cr. U. Race, class and gender as sources of conflict and cooperation in southern African societies.|Prereq: jr st.

418 Race, Class, and Gender in Latin America and the Caribbean. 3 cr. U. An analysis of race, class and gender in the evolution of political, economic, and social structures in Caribbean and Latin American societies.|Prereq: jr st.

420 The Political Economy of Slavery. 3 cr. U. Analysis of the political and economic contradictions of U.S. slavery; the value of free versus slave labor is scrutinized in the context of emerging capitalism.|Prereq: jr st.

450 Cultural Transmissions: Black Africa and Black America. 3 cr. U/G. A cross-national and cross-cultural comparison of the societies and cultures of black Americans and black Africans.|Prereq: jr st.

451 Rites of Passage in Black Societies. 3 cr. U/G. Foundations of the use of rites of passage in different societies throughout Africa and the African diaspora.|Prereq: jr st.

489 Internship in Africology, Upper Division. 1-6 cr. U. Application of advanced principles of Africology in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Africol; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg

in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

545 Raising Children, 'Race-ing' Children. 3 cr. U/G. Analysis of the social meaning of race in the US through the lens of childhood and adolescence; how children come to understand and navigate racism. |Counts as a repeat of Africol 565 w/similar topic. Prereq: jr st or grad st.

565 Selected Texts/Topics in Africology: (Subtitled). 3 cr. U/G. Examination of selected problems, issues, and themes in Africology. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

699 Independent Study. 1-6 cr. U. See Advanced Independent Study. |May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

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CHS College of Health Sciences

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100 New Student Seminar in Health Professions. 1-3 cr. U. An overview of the College of Health Sciences, health professions, academic requirements, career development, and strategies for academic and personal success. | May not be retaken for cr. Prereq: none.

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ANTHRO Anthropology

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14 Foundations of Flamenco. 1 cr. U. Survey of the social groups and forces that have led to the formation of the Andalusian Spanish form of musical expression, Flamenco.|Prereq: none.

101 Introduction to Anthropology: Human Origins. 3 cr. U. Principles of evolution, Mendelian genetics, human adaptability, and concept of race; natural history of primates; human evolution; archaeological evidence for the evolution of culture.|Prereq: none.

102 Introduction to Anthropology: Culture and Society. 3 cr. U. Science of human behavior in different cultural contexts; human biological and cultural variability; human societies of the present and recent past; dynamics of culture change.|Prereq: none.

103 Digging Up the Past: Approaches to Archaeology. 3 cr. U. Why and how extinct cultures are studied. Current archaeological approaches, reconstructing past environments, ethnographic analogy, experimental archaeology.|Prereq: none.

104 Lifeways in Different Cultures: A Survey of World Societies. 3 cr. U. Variety and diversity of human cultural adaptations. Specific peoples and cultures are discussed with respect to their similarities and uniquenesses.|Prereq: none.

105 Introduction to Linguistic Anthropology. 3 cr. U. Methods, techniques, and models of analysis of linguistic anthropology and their applications to the other subfields of anthropology.|Prereq: none.

150 Multicultural America. 3 cr. U. Comparative study of U.S. ethnic and racial identities through popular culture with attention to African-, Asian-, Hispanic-, and Native-American experiences.|Cultures and Communities Prog course; req'd service learning component. Prereq: none.

156 Food and Culture. 3 cr. U. Social and cultural implications of food; nutritional and dietetic concerns of secondary interest. 2 hrs lec, 1 hr dis.|Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. | May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

203 Religions of Hunting-Gathering and Horticultural Societies. 3 cr. U. A survey of the religious beliefs and practices of hunting-gathering and horticultural societies and their relationships to other aspects of culture. | Prereq: none.

212 (effective 09/04/2018) The Past on Tap: The Archaeology of Fermented Beverages. 3 cr. U. Introduction to the production, distribution and consumption of fermented beverages in the ancient world with a particular emphasis on archaeological evidence. | Prereq: none.

213 American Indian Peoples of Wisconsin. 3 cr. U. Past and contemporary societies and cultures of American Indians of Wisconsin, including the Chippewa (Ojibwa), Menominee, Winnebago, Oneida, Potawatomi, Stockbridge-Munsee. | Prereq: none.

214 Ancient Civilizations of Latin America. 3 cr. U. A comparative archaeological overview of various civilizations that flourished in Latin America prior to the arrival of Spanish conquistadors in the early 16th century. | Prereq: none.

225 The Aztec Empire. 3 cr. U. Formation and expansion of the Aztec empire; description and analysis of Aztec culture, with an emphasis on archaeological and ethnohistoric perspectives. | AIS 225 & Anthro 225 are jointly offered; they count as repeats of one another. Prereq: none.

229 Madness and Culture. 3 cr. U. Madness of some kind as a recognized universal in human experience; variation in how madness is expressed, classified, and treated over time and across cultures. | Prereq: none.

250 Women's Roles in Cross-Cultural Perspective. 3 cr. U. Investigation of cross-cultural similarities and differences in women's roles; insights into the nature of women's roles in North American society. | Prereq: none.

281 Dead Men Do Tell Tales: An Introduction to Forensic Science. 3 cr. U. A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated. | Jointly offered with & counts as repeat of Chem/BMS(C L Sci)/Crm Jst 281. Prereq: none.

285 Medicolegal Death Investigation. 3 cr. U. Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators. | Jointly-offered with & counts as repeat of Chem/BMS(C L Sci)/Crm Jst 285. Prereq: none.

289 Internship in Anthropology, Lower Division. 1-6 cr. U. Application of basic principles of anthropology in a business, organizational, educational, political, or other appropriate settings. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: Anthro 101(P), 102(P), 103(P) or 360(P); 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

298 Study Abroad: Brazil. 3 cr. U. Three weeks in Brazil participating in seminars, visiting urban businesses, religious centers, squatter settlements, etc., and traveling to rural cattle ranches, sugar cane plantations etc. | Prereq: none.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Human Evolution and Variation. 3 cr. U. Theory, mechanisms, and processes of biological evolution applied to problems of the primate and human fossil record and contemporary human populations. 2 hrs lec, 2 hrs lab.|Prereq: soph st; Anthro 101(P), Bio Sci 100(P), 102(P), or 150(P), or cons instr.

302 Anthropology and Popular Culture. 3 cr. U/G. Aspects of popular culture including music, information technology, tourism, and film, video, and museum-spectacles in light of anthropological theory.|Prereq: jr st; grade of C or better in English 102(P) or score of 637 or higher on EPT.

304 Violence and Warfare in Prehistory. 3 cr. U/G. Archaeological evidence for the origin and maintenance of violence and warfare in prehistory. How archaeological inquiry is affected by current politics, ethics, and morality.|Prereq: jr st; Anthro 103(P) or cons instr.

305 The Celtic World. 3 cr. U/G. Archaeology, folklore and literature of the Celtic peoples in the British Isles and on the continent, explored and analyzed from an anthropological and historical perspective.|Prereq: jr st.

306 European Archaeology. 3 cr. U/G. Old World cultural development focusing on prehistoric Europe from the Paleolithic to the Roman period; European developments compared to other parts of the Old World.|Prereq: jr st; Anthro 103(P) or cons instr.

307 World Archaeology: Foundations of Civilization. 3 cr. U/G. Cultural developments in selected areas of Old and New Worlds; emphasis on origins of plant and animal domestication, sedentary life, and transition to urban civilization.|Prereq: jr st; Anthro 103(P) or cons instr.

308 Archaeology of North America. 3 cr. U/G. Main pre-Columbian cultures on the North American continent, north of Mexico.|AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 103 (P) or cons instr.

309 Archaeology of Central and South America. 3 cr. U/G. Main pre-Columbian cultures and civilizations of Central and South America, including the Caribbean.|Prereq: jr st; Anthro 103(P) or cons instr.

310 Archaeology of Middle America. 3 cr. U/G. Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.|AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 103(P) or cons instr.

311 The World of the Ancient Maya. 3 cr. U/G. Historical development of ancient Maya civilization from its origins to the Spanish Conquest.|AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 103(P) or cons instr.

313 Archaeology of the American Southwest. 3 cr. U/G. Pre-Hispanic cultures of the southwestern United States and northwestern Mexico.| Prereq: jr st; Anthro 103(P) or cons instr.

314 American Indian Societies and Cultures. 3 cr. U/G. Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy.|AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).

320 Peoples and Cultures of Africa. 3 cr. U/G. Description and analysis of the cultures of Africa, especially south of the Sahara.|Pereq: jr st; Anthro 102(R); grade of C or better in English 102(P) or score 637 or higher on EPT.

322 Europe in Anthropological Perspective. 3 cr. U/G. Key topics in the anthropology of Europe, including nationalism and ritual, gender and politics, borders and immigration, and bureaucracy and citizenship.|Prereq: jr st; Anthro 102(R).

325 Japanese Culture and Society. 3 cr. U/G. Japanese culture and society, including marriage and the family, work

life, education, rural and urban social organization, gender, ritual and life cycle.|Prereq: jr st; Anthro 102(R).

326 Peoples and Cultures of South Asia. 3 cr. U/G. The subcontinent south of the Himalayas, including India, Nepal, Pakistan, Bangladesh, and Sri Lanka.|Prereq: jr st; Anthro 102(R).

328 Comparative Studies of Music, Race, and Gender in Nationalism. 3 cr. U/G. A comparative study of the processes of nation-formation and of the roles played by race, gender, and music in constructing national identities.|Prereq: jr st; Anthro 102(R); grade of C or better in English 102(P) or score 637 or higher on EPT.

335 American Indians of the Southeast. 3 cr. U/G. Description and analysis of Southeastern Indian cultures, including subsistence, sociopolitical organizations, beliefs, and Euro-American relations.|Prereq: jr st; Anthro 102(R) & 314(R).

340 Cultures of Online Games and Virtual Worlds. 3 cr. U/G. Anthropological understandings of online games and virtual worlds including: conceptual foundations, current topics, methodological issues, and first-hand experience.|Prereq: jr st.

349 Seminar in Ethnography and Cultural Processes. 3 cr. U/G. How sociocultural processes are confronted and represented through the genre of ethnography; new monographs used to chart innovations in the form.|Prereq: jr st; Anthro 102(R).

351 Anthropological Theories of Religion. 3 cr. U. Anthropological theories of religion covering magic and witchcraft, moral order, sacred and profane, alienation, capitalism, neurosis, ritual, fetishism, fundamentalism, conversion, sacrifice, and healing.|Anthro 351 & ReligSt 351 are jointly offered; they count as repeats of one another. Prereq: jr st.

354 Anthropology, Aesthetics, and Art. 3 cr. U/G. Arts and aesthetics in anthropological perspective; their relation to other aspects of culture, prehistoric and contemporary art, and material culture.|Prereq: jr st; Anthro 102(R).

355 Globalization, Culture, and Environment. 3 cr. U. Anthropological approaches to examining the concept of environmental justice as a crucial component of global security.|Prereq: jr st; satisfaction of GER English Composition competency req.

361 Applications in Linguistic Anthropology. 3 cr. U/G. Advanced work in linguistic anthropology designed to give students applied skills in cross-linguistic studies.|Prereq: jr st; Anthro 105(360)(P) or cons instr.

362 System Failure: Globalization and Language Extinction. 3 cr. U/G. Role of globalization in the projected extinction of a large number of the world's languages within the next century.|AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another. Prereq: jr st; a course in social science; a course in linguistic anthro; or cons instr.

380 Anthropological Applications of GIS. 3 cr. U/G. Use of GIS in archaeology, cultural anthropology, and physical anthropology.|Prereq: jr st; a course in anthro.

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in cultural anthropology, ethnography, prehistory, and human evolution.|May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

400 Human Sociobiology. 3 cr. U/G. Application of the principles of evolutionary theory and behavioral ecology to the social and cultural life of humans and other primates.|Prereq: jr st; Anthro 101(R) or 102(R).

401 Primate Populations. 3 cr. U/G. Ecological behavioral genetic and multidisciplinary field studies of nonhuman primates.|Prereq: jr st; Anthro 301(P) or cons instr; grade of C or better in English 102(P) or score of 637 or higher on EPT.

402 Primate Evolution. 3 cr. U/G. Evolution, adaptation, and distribution of living primates, including humans,

comparative primate adaptations and skeletal anatomy. Evolutionary theory and its application to the primate fossil record. |Prereq: jr st; Anthro 301(P) or cons instr.

403 The Human Skeleton. 3 cr. U/G. Morphological and functional examination of the skeletal system. Microscopic and biomedical considerations of bone and cartilage, age, sex, and regional differences among modern human populations. Combined lec/lab. |Prereq: jr st; Anthro 301(P) or cons instr.

404 Seminar in Human Evolutionary Physiology. 3 cr. U/G. Evolutionary principles influencing human populations. Variation within and between human groups. |Prereq: jr st; Anthro 301(P) or cons instr; grade of C or better in English 102(P) or score level 4 on EPT.

405 Forensic Anthropology. 3 cr. U/G. Techniques in the forensic analysis of human skeletal material. Introduction to death investigation and forensic pathology. |Prereq: jr st; Anthro 403(P).

406 Evolutionary Biology & Human Diseases. 3 cr. U/G. Evolutionary principles applied to our understanding of infectious and chronic diseases common to human populations, both past and present. |Prereq: jr st; Anthro 301(R), Bio Sci 100(R) or 150(R).

407 Neuroanthropology. 3 cr. U/G. Anthropological theories of human brain evolution, and its role in complex human cultural traits, including sociality, language, tool manufacture, cognition, and emotion. |Counts as repeat of Anthro 641 with same topic. Prereq: jr st; Anthro 101(P) or Bio Sci 150(P).

408 Hormones and Behavior. 3 cr. U/G. Roles of hormones in evolution and expression of animal behaviors, particularly aggression, stress, mating, parenting, and cognition; emphasis on humans. |Counts as repeat of Anthro 641 w/same topic. Prereq: jr st; intro course in physical anthro, bio sci, or psych.

409 Evolution, Religion, and Human Biology. 3 cr. U/G. Nature and evolutionary origins of human religion as well as empirical evidence for the effects of religion on human health. |Prereq: jr st; Anthro 101(P) or an intro bio sci course.

420 Power and Ideology in Archaeology. 3 cr. U/G. Nature of and relationship between power and ideology in past societies; theoretical perspectives and methods used by archaeologists to study power and ideology. |Counts as a repeat of Anthro 641 w/similar title. Prereq: jr st; Anthro 103(P) or cons instr.

421 Cities in the Ancient World. 3 cr. U/G. Cross-cultural comparison of the world's first cities; the emergence of cities and their role in the development of ancient civilizations. |Prereq: jr st; Anthro 103(P) or cons instr.

424 Ethnoarchaeology. 3 cr. U/G. Combination of ethnographic methods with archaeological research questions to achieve a better understanding of material culture. |Counts as a repeat of Anthro 641 w/same topic. Prereq: jr st; Anthro 102(P) or 103(P) or cons instr.

425 Hunter-Gatherer Lifeways: Past and Present. 3 cr. U/G. Cross-cultural comparisons of hunter-gatherer societies, including archaeological, ethnohistorical, and ethnographic approaches. |Prereq: jr st; Anthro 102(P) or 103(P) or cons instr.

426 Who Owns the Past? 3 cr. U/G. Social/political ramifications of the study, interpretation, presentation, conservation of the archaeological past; institutions/stakeholders involved in those processes: museums, scholars, ethnic groups, the public. |Counts as a repeat of Anthro 641 w/same topic. Prereq: jr st; Anthro 102(P) or 103(P) or cons instr.

431 Cities and Culture. 3 cr. U/G. Cross-cultural analysis; relation of urban space to community, capitalism, migration, class, globalization, social and artistic movements; methods for ethnographic study. |Prereq: jr st; Anthro 102(R).

439 Culture and Global Health. 3 cr. U/G. Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease. |Anthro 439 & Global

439 are jointly offered; they count as repeats of one another. Prereq: jr st.

440 Medical Anthropology. 3 cr. U/G. Comparative study of medical systems; cultural meaning of illness and the healing process; social origins of disease.|Prereq: jr st; Anthro 102(P); grade of C or better in English 102(P) or score of 637 or higher on EPT.

441 Nature, Knowledge, and Technoscience in Anthropological Perspective. 3 cr. U/G. Anthropological approaches to contemporary issues of science in society; critical perspectives on knowledge construction with respect to culture and indigenous traditions, race, class and gender.|Prereq: jr. st

442 Humanitarianism in Global Perspective. 3 cr. U/G. Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking.|Anthro 442 & Global 442 are jointly offered; they count as repeats of one another. Prereq: jr st; a social science course (P).

443 Medicine and Pharmaceuticals in the Global Age. 3 cr. U/G. The practices of medicine and the distribution of pharmaceuticals globally.|Anthro 443 & Global 443 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 440(R).

445 Psychological Anthropology. 3 cr. U/G. The relationship between individual and society; cultural influences on cognition, personality, identity, and emotion; and the comparative study of mental disorder.|Prereq: jr st; Anthro 102(R).

446 The Child in Different Cultures. 3 cr. U/G. Relationship of child development to particular cultural milieus; methods of child training in different cultures and their effects on the development of adult personality.|Prereq: jr st; Anthro 102(R) or Psych 101(R) or Sociol 101(R).

447 The Global Politics of Human Rights. 3 cr. U/G. Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.|Anthro 447 & Global 447 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).

448 Cultural and Human Ecology. 3 cr. U/G. Relationships of human societies to natural environments; energy systems involved in processes of human adaptation; ways in which culture and society operate as dynamic components of that exchange.|Prereq: jr st; Anthro 102(R).

449 The Human Economy. 3 cr. U/G. Uses and allocation of resources; modes of production and distribution and their relationship to kinship, politics, and other aspects of culture.|Prereq: jr st.

450 Political Anthropology. 3 cr. U/G. Political organization: forms of authority, responsibility, accountability, and power in societies at different levels of social complexity and in different ecological contexts.|Prereq: jr st; Anthro 102(R).

460 Anthropological Theory. 3 cr. U/G. Critical examination of the development and current status of the major paradigms and theories employed in anthropological studies.|Prereq: sr st; Anthro 102(R).

465 Historic Preservation in Archaeology. 3 cr. U/G. Historic preservation and cultural resource management in American archaeology; the legislative base, federal and state programs, the national register, regional planning, and research orientations.|Prereq: jr st.

466 Historical Archaeology. 3 cr. U/G. Development of the historical archaeology discipline; issues of method and theory; use of documentary, oral, and material culture evidence to interpret the recent past.Counts as repeat of Anthro 641 with same topic. Prereq: jr st; Anthro 103 (P) or cons instr.|

467 Archaeological Curation: A Practicum in the Care of Research Collections. 3 cr. U/G. Practicum in archaeological curation focusing on conservation and preservation, pest management, storage, collection accessibility,

accountability, curation policies, federal regulations, and ethics.|Counts as repeat of Anthro 641 w/similar topic. Prereq: jr st; Anthro 103(P) or cons instr; or grad st.

481 Criminalistics. 3 cr. U. Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.|Anthro 481, Chem 481, C L Sci 481, & Crm Jst 481 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P).

489 Internship in Anthropology, Upper Division. 1-6 cr. U. Application of advanced principles of anthropology in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

501 Archaeology of Death. 3 cr. U/G. Archaeological study of mortuary behavior and osteology to understand cultural variability in social organization, disease, nutrition, and violence.|Prereq: jr st; Anthro 103(P) or cons instr; grade of C or better in English 102(P) or score 637 or higher on EPT.

502 Lithic Analysis: Stone Tools and Human Behavior. 3 cr. U/G. Stone tool production use, and archaeological analysis; experimental knapping, heat treatment, and other exercises. No cr for student w/cr in Anthro 641 w/similar topic.|Prereq: jr st; Anthro 103(P) or cons instr.

525 Zooarchaeology: Analysis of Faunal Remains. 3 cr. U/G. Theory and method, including practical labs, in the analysis of animal remains from archaeological contexts.|Prereq: jr st; Anthro 103(P) or cons instr.

535 Analysis of Archaeological Ceramics. 3 cr. U/G. Archaeological approaches to ceramic analysis including theory and methods; ethnoarchaeological, experimental, compositional, and stylistic approaches; practical skills including sorting, typing, and reporting ceramic assemblages.|Counts as repeat of Anthro 641 with similar topic. Prereq: jr st; Anthro 103(P) or cons instr.

540 Applications of Anthropology. 3 cr. U/G. Uses of anthropological concepts, methods, and findings in human problems resulting from culture change.|Prereq: jr st; Anthro 102(R).

543 Cross-Cultural Study of Religion. 3 cr. U/G. Various approaches to the study of religion; religions of selected non-Western societies.|Prereq: jr st; Anthro 102(R).

544 Religious Giving in Anthropological Perspective. 3 cr. U. Seminar on religious directives for giving in historical and cross-cultural perspective, including Christian, Hindu, Buddhist, Muslim, and Jewish ideas of charity, philanthropy, and social welfare.|Anthro 544 & ReligSt 544 are jointly offered; they count as repeats of one another. Prereq: jr st.

560 Introduction to Research Methods in Anthropology. 3 cr. U/G. Problem and research design formulation. How to ask and answer scientific questions using methods and techniques common to all fields of anthropology.|Prereq: jr st; Anthro 102(R).

561 Techniques and Problems in Ethnography. 3 cr. U/G. Methods of fieldwork for cultural anthropologists; design of field studies; techniques for collection and analysis of field data; field projects.|Prereq: jr st; Anthro 102(R).

562 Techniques and Problems in Archaeology. 3 cr. U/G. Methods of fieldwork in archaeology; strategies of

archaeological investigations; introduction to archaeological site mapping Lec, lab.|Prereq: jr st; Anthro 103(P) or cons instr.

565 Seminar in Regional Archaeology: (Subtitled). 3 cr. U/G. Seminar in archaeology of specific geographic areas. Consult Schedule of Classes for specific semester's content.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Anthro 103(P) or cons instr.

566 Archaeological Analysis and Report Preparation: (Subtitled). 3 or 6 cr. U/G. Students will organize, describe, analyze, and interpret actual archaeological materials. Each student will assist in writing an archaeological report. Fee assessed according to nature and location of field trips.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Anthro 103(P) or cons instr.

567 Archaeological Field School. 3 or 6 cr. U/G. Archaeological methods and techniques under field conditions, at one or more sites. Field work five days a week, evening lectures. Fee assessed according to nature and location of field school.|May be retaken to 9 cr max. Prereq: jr st; cons instr.

568 Introduction to Anthropological Statistics. 3 cr. U/G. Statistical models and their basic assumptions; statistical inference in biological and cultural anthropology; probability theory; nonparametric and parametric methods.|Prereq: jr st; Anthro 101(P) or 102(P) or 103(P) or cons instr.

570 Issues in Bilingualism. 3 cr. U/G. Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints.|Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another. Prereq: jr st.

585 Internship in Forensic Toxicology. 1-3 cr. U. Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.|Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

589 Internship in Death Investigation. 1-3 cr. U. Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.|Anthro 589, Chem 589, BMS(C L Sci) 589, & Crm Jst 589 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci certif prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver.

594 Internship in Forensic Science. 1-3 cr. U. On-site shadowing of evidence analyst at State Crime Laboratory.|Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

636 Geochronology. 3 cr. U/G. Theory and application of radiometric and other numerical dating methods in geology, archaeology, and paleoanthropology.|Anthro 636 & Geo Sci 636 are jointly offered; they count as repeats of one another. Prereq: jr st, Anthro 101(P) or 103(P) or Geo Sci 100(P), & cons instr; or grad st & cons instr.

641 Seminar in Anthropology: (Subtitled). 3 cr. U/G. A research seminar in any of the several recognized areas of anthropology.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st, Anthro 101(P) or 102(P) or 103(P); or grad st.

649 Ethnography of Institutions. 3 cr. U/G. Method, practice, and theory of institutional ethnography. Counts as a repeat of Anthro 641 with the same topic.|Prereq: jr st.

699 Independent Work. 1-3 cr. U. Advanced independent work under the supervision of an Anthro faculty or instructional academic staff member. Students must submit a study proposal. For further information, consult dept undergrad prog coord.|May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

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ARABIC Arabic

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101 First Semester Arabic. 5 cr. U. For students with no previous knowledge of Arabic. Emphasis on one standard dialect. Language laboratory required.|Open to native speakers of Arabic only w/cons instr. Prereq: none.

102 Second Semester Arabic. 5 cr. U. Elements of reading and writing contemporary literary Arabic.|Open to native speakers of Arabic only w/cons instr. Prereq: Arabic 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro crs).

111 Cultures and Civilizations of the Muslim Middle East. 3 cr. U. Muslim Middle East through historical and ethnographic materials; reading of Quran and some modern literature.|Prereq: none.

164 Arabs and Islam in America. 3 cr. U. History of Arab immigration, experience of Arabs, and nature of Islam and Islamic communities in America.|Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level.|May be retaken w/chg in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

201 Third Semester Arabic. 5 cr. U. Continuation of 102. Further practice in the standard language. Study of weak verbs and quadrilateral verbs. Relative and conditional sentences.|Open to native speakers of Arabic only w/cons instr. Prereq: Arabic 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro crs).

202 Fourth Semester Arabic. 5 cr. U. Continuation of 201. Noun forms. Use of cases. Particles and prepositions. Introduction to Arabic verse.|Open to native speakers of Arabic only w/cons instr. Prereq: Arabic 201(P). Generates L&S credit for demonstrated equivalent preparation (12 retro crs).

289 Internship in Arabic, Lower Division. 1-6 cr. U. Application of basic principles of Arabic in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Arabic; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course

work level, content, and credits are determined and/or in specially prepared course work. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Fifth Semester Arabic. 3 cr. U. Continuation of Arabic 202. Root and pattern systems; complex sentence structure; continued development of conversation and writing skills; strategies in reading culturally-oriented texts. | Open to native speakers of Arabic only w/cons instr. Generates L&S credit for demonstrated equivalent preparation (16 retro crs). Prereq: Arabic 202(P).

302 Sixth Semester Arabic. 3 cr. U. Continuation of Arabic 301. More complex grammatical forms; vocabulary building principles; continued development of skills in conversation, reading, writing, culturally-oriented readings, and films. | Open to native speakers of Arabic only w/cons instr. Prereq: Arabic 301(P). Generates L&S credit for demonstrated equivalent preparation (16 retro crs).

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

404 Introduction to Translation: Arabic to English. 3 cr. U. Translating a variety of texts from Arabic to English, including media articles, political texts, and literary and consumer-oriented texts. Identifying and developing translation strategies. | Prereq: jr st; grade B or better in Arabic 302(P) or equiv, or cons instr.

489 Internship in Arabic, Upper Division. 1-6 cr. U. Application of advanced principles of Arabic in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Arabic; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

514 Advanced Translation: Arabic to English. 3 cr. U. Translating texts from Arabic to English, including media articles, political texts, literary and consumer-oriented texts. Identifying and developing translation strategies; proofreading and editing own work. | Prereq: Arabic 404(P) or cons instr.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Advanced Independent Study. 1-3 cr. U. Advanced independent work under the supervision of a faculty member. For more information, consult dept chair. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; cons instr, dept chair & asst dean for SAS.

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ARCH Architecture

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100 Architectural Making I. 3 cr. U. An introductory course about architecture and architectural making. 2D and 3D form and space tested through the theoretical, pragmatic, and contextual issues that influence architecture.|Prereq: none.

101 Introduction to Architectural Theory. 3 cr. U. A survey of architectural design theory through research analysis and criticism of works and ideas of significant architects and architectural theorists.|Prereq: none.

102 Architectural Thinking I. 3 cr. U. Broad overview of the histories and theories that have shaped the discipline of architecture: its histories, theories and methodologies.|Prereq: none.

103 Architectural Making II. 3 cr. U. Survey and application of twentieth century design techniques in architecture.|Prereq: none.

104 Architectural Thinking II. 3 cr. U. Canonical buildings since 1800 alongside their accompanying theoretical texts are evaluated within the discipline and allied fields of inquiry.|Prereq: none.

110 New Student Orientation. 1 cr. U. An overview of the School of Architecture and Urban Planning, the architecture and urban planning professions, academic requirements, and student resources.|Prereq: none.

190 Special Topics: (Subtitled). 1-3 cr. U. Presentation of new material on experimental basis. Material appropriate for testing interest and ability in architecture. Specific credits and any prereqs announced in Schedule of Classes whenever course is offered.|May be retaken w/chg in topic to 9 cr max. Prereq: none.

282 Visualization 1. 3 cr. U. Development of precise standards of drawing and the history and techniques of descriptive and analytical drawing.|Prereq: acceptance to Level 2; or cons instr.

283 Visualization 2. 3 cr. U. Exploration of the potential for representation to communicate generative, atmospheric, and presentational qualities.|Prereq: Arch 282(P).

300 Architectural History and Theory. 3 cr. U/G. Introduction to architectural history and its theoretical base. The course covers classical architecture to the present, focusing on the theories underlying architecture of a period.|Prereq: acceptance to Level 2 or arch studies minor; or grad st.

301 Architecture Systems 1. 3 cr. U/G. The behavior of structures, structural materials and planning, and the principles and performance of building envelope systems.|Prereq: acceptance to level 2 or arch studies minor; or grad st.

302 Architecture and Human Behavior. 3 cr. U/G. Introduction to behavioral, social and cultural factors and their implications for the design and planning of the built environment.|Prereq: jr st & acceptance to level 2 or arch studies minor; or grad st.

303 Architecture Systems 2. 3 cr. U/G. Investigation of environmental control and life safety requirements and their implications on architectural form and design.|Prereq: acceptance to level 2 or arch studies minor; or grad st.

304 Contemporary Criticism and Urbanism. 3 cr. U/G. Disciplinary methods and themes through rigorous readings of texts and objects concerning contemporary architectural criticism, and histories and theories of urban form and urban planning.|Prereq: jr st.

310 Fundamentals of Architectural Design I. 6 cr. U. Formal concepts that order the production of architecture, using physical and virtual models, sketches, and drafted, scaled, orthographic drawings. Issues related to site, function and environment.|Prereq: acceptance to Level 2.

320 Fundamentals of Architectural Design II. 6 cr. U. Architectural design as a synthetic discipline that considers material/spatial experience, contextual analysis, formal concepts, and social/cultural relationships. Material/graphic representation explored in models, drawings, collage and renderings.|Prereq: Arch 310(P).

340 Urban Design. 3 cr. U/G. Survey of urban design, including the study of precedents, recent philosophy, design vocabulary, behavioral responses, and implementation strategies.|Prereq: jr st; acceptance to Level 2 or arch studies minor & Arch 300(P); or grad st.

350 Greening Milwaukee. 3 cr. U. City wide environmental organizations are organized into lecture series on the state of sustainable issues. Thirty hours of service are required.|Prereq: soph st.

380 Drawing in Architecture. 3 cr. U/G. Visual communication skills are developed in relation to basic design theory and architectural design process.|Prereq: jr st & acceptance to level 2 or arch studies minor; or grad st.

382 Introduction to Building Information Modeling (BIM). 3 cr. U/G. Principles of Building Information Modeling and the interface and workflow of Autodesk's Revit.|Prereq: jr st & acceptance to level 2 or arch studies minor; or grad st.

383 Landscape Architecture. 3 cr. U/G. Introduction to the history of landscape architecture as well as the process of contemporary landscape architecture and its relationship to contemporary architecture.|Prereq: jr st & acceptance to level 2 or arch studies minor; or grad st.

390 Special Topics: (Subtitled). 1-3 cr. U. Provides a format for the development and presentation of new material. Specific credits and any additional prereqs announced in Schedule of Classes whenever course is offered.|May be retaken w/chg in topic to max of 12 cr. Prereq: jr st; acceptance to Level 2 or arch studies minor.

391 Directed Research. 3 cr. U. Student participation in research projects under faculty supervision.|May not be retaken for cr. Prereq: jr st; acceptance to Level 2 or arch studies minor & cons instr.

392 Independent Studies. 3 cr. U. Independent investigation of issues related to architecture.|May not be retaken for cr. Prereq: jr st; acceptance to Level 2 or arch studies minor & cons instr.

410 Architectural Design I. 6 cr. U. Design projects explore basic issues: clients' needs; site planning; masonry, wood, and steel construction; health and safety. Composition employs analysis of precedent.|Prereq: Arch 320(P).

420 Architectural Design II. 6 cr. U. Design projects explore complex contexts and programs. Solutions employ

hybrid construction technologies, and codes for safety and accessibility; they also integrate interior and exterior spaces.|Prereq: Arch 410(P).

497 Study Abroad: (Subtitled). 3-12 cr. U. Studio and/or field study designed to provide relevant course work for a study abroad program in architecture.|May be retaken w/chg in topic. Prereq: acceptance to Level 2 or arch studies minor & Study Abroad Program.

510 Survey of Structural Analysis and Design. 3 cr. U/G. Statics, strength of materials and analysis of simple structural elements and systems. Design and economics of simple building structures.|Prereq: sr st & Arch 301(P); or grad st.

516 Building Construction. 3 cr. U/G. Review and analysis of architectural construction systems in relation to building projects of various scales. Construction techniques and contract documentation are covered.|Prereq: sr st; Arch 301(P) & Arch 410(P); or grad st.

520 Environmental Systems: Illumination and Thermal Comfort. 3 cr. U/G. The impact of visual and thermal comfort requirements on the design of building enclosures, lighting systems and HVAC systems.|Prereq: sr st, Arch 301(P) & 303(P); or grad st.

521 Environmental Systems: Resources-Fluid Distribution Systems. 3 cr. U/G. Water resources supplies and treatment, distribution and disposal systems. Atmospheric and thermal comfort. Air treatment, distribution systems, and related energy systems for human comfort.|Prereq: sr st & Arch 303(P); or grad st.

522 Environmental Systems: Lighting and Acoustical Design. 3 cr. U/G. The development and application of visual/auditory comfort criteria, lighting and acoustical design, and their architectural design implications.|Prereq: sr st & Arch 303(P); or grad st.

533 Topics in Architectural Theory: (Subtitled). 3 cr. U/G. This variable content course will focus on the study of a particular architectural theory or the work of an individual architect and its theoretical base.|May be retaken w/chg in topic to max of 6 cr. Prereq: sr st & Arch 300(P) or grad st.

534 Field Study: (Subtitled). 3 cr. U/G. Theoretical developments and their historical contexts are explored in a particular setting. Focus and setting are announced in advance.|May be retaken w/chg in topic to max of 6 cr. Prereq: jr st; Arch 300(P).

550 Seminar in Building Types and Settings. 3 cr. U/G. Development and usage of various building types and settings based upon social, behavioral, political, and economic factors.|Prereq: sr st, & Arch 300(P) or 302(P), or cons instr.

551 American Vernacular Architecture. 3 cr. U/G. Introductory seminar on the historical development of all forms of vernacular and popular architecture. Buildings are analyzed in detail within their cultural contexts.|Prereq: sr st & Arch 300(P); or grad st.

553 Vernacular Buildings and Groupings. 3 cr. U/G. Study of the patterns and characteristics of human settlements and individual structures built according to local traditions.|Prereq: sr st & Arch 302(P); or grad st.

560 Introduction to Historic Preservation. 3 cr. U/G. Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.|Prereq: sr st & Arch 300(P); or grad st.

561 Measured Drawing for Architects. 3 cr. U/G. History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.|Prereq: sr st & Arch 301(P); or grad st.

562 Preservation Technology Laboratory. 3 cr. U/G. Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail. |Prereq: sr st & Arch 301(P); or grad st.

580 Graphic Techniques for Architects. 3 cr. U/G. Architectural presentation techniques focusing on the application of various graphic media including color pencil, pastel, watercolor, marker, and air-brush. |Prereq: sr st & acceptance to level 2; or grad st.

581 Law and Professional Practice for Architects. 3 cr. U/G. An introduction to architectural practice; content includes office procedures, contract management, legal constraints. |Prereq: sr st & acceptance to level 2 or arch studies minor; or grad st.

583 Emerging Digital Technology: (Subtitled). 3 cr. U/G. Laboratory focusing on the theory and application of emerging digital tools to contemporary problems of architectural design and professional practice. Proficiency in MicroStation, Rhino, formZ, or SketchUp required. |May be retaken w/chg in topic to a max of 6 cr. Prereq: jr st & acceptance to Level 2 or arch studies minor; or grad st.

584 Urban Landscape Architecture. 3 cr. U/G. Study of historic and contemporary exterior urban space, urban site planning methodology; design and detailing of exterior urban space; pedestrian and vehicular movement; use of plant materials. |Prereq: sr st & acceptance to level 2 or arch studies minor; or grad st.

585 Research Methods in Architecture. 3 cr. U/G. Review of various data collection and analysis methods used in architectural research and design; exploration of the epistemological foundations of our knowledge about the built environment. |Prereq: sr st & acceptance to Level 2; or grad st.

586 Programming for Architectural Design. 3 cr. U/G. Analysis and development of architectural programs: goals, user requirements, socio-cultural determinants, design criteria, site selection and analysis, building type analysis, code analysis, and cost projections. |Prereq: sr st & Arch 302(P); or grad st.

587 Post-Occupancy Evaluation of Built Environments. 3 cr. U/G. Evaluation of built environments: technical, functional, and socio-behavioral factors; design of post-occupancy evaluation studies and instruments; and analysis of a built environment. |Prereq: sr st & Arch 302(P); or grad st.

615 Studies in Architectural Technology and Theory: (Subtitled). 6 cr. U. Intermediate design studio emphasizing technology and analytical theories and methods. |May be retaken w/chg in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

633 Chicago Design Critic Studio. 6 cr. U. Intermediate design studio directed by an eminent Chicago architect. Specific content is announced in advance. |Prereq: sr st; Arch 420(P).

634 Distinguished Visiting Design Critic Studio. 6 cr. U. Intermediate design studio directed by a nationally or internationally known architect. Specific content is announced in advance. |Prereq: st st; Arch 420(P).

635 Studies in Architectural History and Precedent: (Subtitled). 6 cr. U. Intermediate design studio emphasizing precedent analysis, historical analysis and historical preservation theories and methods. |May be retaken w/chg in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

636 Studies in Form and Composition: (Subtitled). 6 cr. U. Intermediate design studio emphasizing formal compositional theories and methods. |May be retaken w/chg in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

637 Competitions Studio. 6 cr. U. Intermediate design studio utilizing architectural competitions to focus on concept development, technical competence, and graphic presentation. |Prereq: sr st; Arch 420(P) or cons dept chair.

645 Studies in Urban and Community Design Theory: (Subtitled). 6 cr. U. Intermediate design studio emphasizing

urban and community design theories and methods.|May be retaken w/chg in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

650 Intermediate Design Studio: (Subtitled). 6 cr. U. Intermediate concepts and methods of architectural design relevant to contemporary theory and practice.|May be retaken w/chg in topic to max of 12 cr. Prereq: Arch 420(P).

675 Studies in Facility Planning and Design: (Subtitled). 6 cr. U. Intermediate design studio emphasizing facility planning and design theories and methods.|May be retaken w/chg in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

685 Studies in Building Typology: (Subtitled). 6 cr. U. Intermediate design studio emphasizing the relationship among building use, formal pattern and institutional history.|May be retaken w/chg in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

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ART Art and Design

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100 American Art and Culture. 3 cr. U. Appreciation of North American art through study of diverse cultural traditions including African-American, Native-American, Latino-American, Asian-American and European-American expressive practices.|Not open for cr or enrollment to Art & Art Educ majors. Prereq: none.

101 Drawing I. 3 cr. U. Exploration of drawing materials, methods, concepts and expression based on visual observation.|Prereq: none.

105 Art & Design Lecture Series. 3 cr. U. Introduction to contemporary art and design as presented through artist lecture series; addresses themes of form, function, criticism and audience relative to contemporary art practice..|Prereq: none.

106 Art Survey. 3 cr. U. Introduction to the visual arts disciplines and contemporary critical concerns. Course themes investigate inter-relations between technical process and expressive intent.|Prereq: none.

107 Art Explorations: (Subtitled). 1-3 cr. U. Special topic course in Art and Design for non-art majors.|May be retaken w/chg in topic to 6 cr max. Not open to Art & Art Ed majors. Prereq: none.

108 2D Concepts. 3 cr. U. An introduction to visual problem solving. Organization of the two-dimensional plane using the elements and principles of design. Includes the study of black and white and the basics of color.|Prereq: none.

109 3D Concepts. 3 cr. U. An introduction to three-dimensional design through constructed surface and form studies, tool usage and fabrication techniques.|Prereq: none.

118 Digital Arts: Culture, Theory, Practice. 3 cr. U. Introduction to electronic art and imaging. Focus on historical and cultural contexts, theoretical concepts and studio skills using imaging software.|Prereq: none.

124 Design Survey. 3 cr. U. Survey of design disciplines and movements of the 19th, 20th and 21st centuries. Slide lectures include industrial design, architecture, graphic design, and design movements.|Prereq: none.

150 Multicultural America. 3 cr. U. Cross-cultural study of U.S. ethnic and racial identities through materials drawn from a variety of media arts practices (e.g. film, photography, new media) with attention to African-, Asian-, Hispanic- and Native American experiences.|Cultures and Communities Prog course; req'd service learning component. Jointly

offered with & counts as repeat of Film 150. Prereq: none.

152 Photography Survey. 3 cr. U. Survey of photographic processes and movements of the 19th, 20th, and 21st centuries, with emphasis on historical and cultural contexts that shaped the application of the medium. | Prereq: none

201 (102) Drawing II. 3 cr. U. Expanded development of drawing materials, methods and expression; focus on conceptual and perceptual process. | Prereq: Art 101(P).

207 Undergraduate Research Assistantship in Art and Design. 1-3 cr. U. An opportunity for freshmen and sophomores to work collaboratively with an Art and Design faculty member on a specific and sustained research project. | May be retaken to 6 cr max. Prereq: admis to First Year Prog or Art & Design, & cons instr.

208 Color Studio. 3 cr. U. Expanded exploration of the art and science of color for studio media; focus on pigment, screen and digital output. | Prereq: Art 101(P), 108(P); or cons instr.

212 Introduction to Digital Studio: A/V Strategies. 3 cr. U. Introduction to time based technologies for artists and designers; includes audio, video, and animation techniques. Surround sound, lighting, green screen, and visual effects are examined. | Prereq: Art 101(P), 108(P), & 118(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test, or cons instr

218 2D Design Strategies. 3 cr. U. Introduction to problem solving using the basics of drawing and elements & principles of design; includes composition & color theory. | Not open to Art & Design and Art Ed majors. Prereq: none.

221 Introduction to Design. 3 cr. U. Introduction to computer as design and production tool for graphic design, use software to create graphics, edit images and design complex layouts. | Prereq: Art 101(P), 106(P), 108(P), & 118(P); or admis to Inter-Arts/IAT prog & Art 118(P); Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.

223 Introduction to Typography. 3 cr. U. Introduction to the fundamentals of designing with type; emphasis on formal design skills, type history, conceptual problem-solving. | Prereq: Art 101(P), 106(P), 108(P), 109(P), 118(P) & 221(C); Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.

224 Dynamic Typography. 3 cr. U. Fundamentals of designing with type; emphasis on formal design skills, conceptual problem solving. Focus on screen-based projects and type in motion, some print design. | Prereq: Art 101(P), 108(P), & 118(P); or pre-Inter-Arts/IAT prog; Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.

227 Design Workshop: (Subtitled). 3 cr. U. A concept oriented workshop in graphic design. | May be retaken w/chg in topic to max of 6 cr. Prereq: see Schedule of Classes. Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.

231 Introduction to Fibers. 3 cr. U. Introduction to fiber materials and processes and contemporary aesthetic consideration in fiber arts. | Prereq: Art 101(P); & 108(P) or 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.

238 Fiber Workshop: (Subtitled). 3 cr. U. Special topics course in fibers. | May be retaken w/chg in topic to 6 cr max. Prereq: see Schedule of Classes; or cons instr.

243 Introduction to Painting. 3 cr. U. Exploration of oil painting medium including color and construction of pictorial space. Work primarily from observation, investigating range of motifs and personal content. | Prereq: Art 101(P), 106(P), & 108(P); Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.

249 Painting and Drawing Workshop: (Subtitled). 1-3 cr. U. Special topic course in painting and drawing. | May be retaken w/chg in topic to 6 cr max. Prereq: admis to Art and Design Prog.

253 Introduction to Photography. 3 cr. U. Fundamental aesthetics/techniques of darkroom/digital photography using digital cameras & 35mm SLR film cameras; focus on camera operation, image exposure, printing practice for b/w compositions. Prereq: Art 108(P), or 118(P), or 152(P), or Film 117(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr

259 Beginning Photographic Workshop: (Subtitled). 1-3 cr. U. Beginning special topic workshop course in photography. May be retaken w/chg in topic to 6 cr max. Prereq: admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.

261 Introduction to Sculpture. 3 cr. U. Basic experiences in various sculpture media with an emphasis on the aesthetic interrelationship of techniques and concept. Prereq: Art 101(P), 106(P) & 109(P); Math 102(C), 103(C), 105(C), or 108(C), or Level 30 on Math Placement Test; or cons instr.

269 Sculpture Workshop: (Subtitled). 1-3 cr. U. A short term, special topic workshop in sculpture. May be retaken w/chg in topic to 6 cr max. Prereq: see Schedule of Classes.

271 Introduction to Jewelry and Metalsmithing. 3 cr. U. Introduction to major aspects of metalworking and jewelry. Develop design skills and technical competency and explore metalsmithing as an art form. Outside class work required. Prereq: Art 101(P), 106(P), & 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.

277 Design for Digital Fabrication. 3 cr. U. Introduction digital design, drawing and fabrication using 3D modeling software and output devices such as 3D printers and laser cutters. Prereq: Art 118(P) or equiv; or cons instr.

278 Introduction to Industrial Craft. 3 cr. U. Introduction to fabrication methods, materials and techniques for problem-solving in the design of physical objects. Prereq: Art 277(C); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.

279 Jewelry and Metalsmithing Workshop: (Subtitled). 1-3 cr. U. Special topics workshop in jewelry and metalsmithing. May be retaken w/chg in topic to 6 cr max. Prereq: see Schedule of Classes.

281 Introduction to Ceramics. 3 cr. U. Handbuilding, surface embellishment and glazing of functional and sculptural ceramic forms. Slide lectures of historical and contemporary approaches to the medium. Prereq: Art 101(P), 106(P), & 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.

289 Ceramics Workshop: (Subtitled). 1-3 cr. U. A short term, special topic workshop in ceramics. May be retaken w/chg in topic to 6 cr max. Prereq: see Schedule of Classes.

291 Introduction to Print and Narrative Forms. 3 cr. U. Introduction to basic studio practices, skills, and materials including plates, presses, inks, and image processing. Prereq: Art 101(P), 106(P), & 108(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Studio and special problems designed to provide relevant course work for a study abroad in the visual arts. May be retaken with topic change. Prereq: admis to Art and Design Prog; acceptance in Study Abroad Prog.

299 Printmaking Workshop: (Subtitled). 3 cr. U. A special topic workshop in Print & Narrative Forms. May be retaken w/chg in topic to 6 cr max. Prereq: see Schedule of Classes.

302 Art and Design Workshop: (Subtitled). 3 cr. U/G. Special topic course in Art and Design. May be retaken with topic change to 6 cr max. Prereq: jr st, & admis to Art and Design prog or to IAT; or grad st.

306 Introduction to Community Art. 3 cr. U. Study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals. |Prereq: admis to Art & Design, Multicultural America 150(P) (in any area).

309 Issues in Contemporary Art: (Subtitled). 3 cr. U. Lecture course focused on critical issues/theory in contemporary art and culture. |May be retaken w/chg in topic to 6 cr max. Prereq: soph st or cons instr.

312 (326) Intermediate Digital Studio. 3 cr. U/G. Students investigate the relationship between concept, material, process, aesthetic, and context in artmaking. Then, students are encouraged to integrate digital and traditional approaches to production. |Prereq: jr st & admis to Art & Design prog or IAT prog; & Art 212(P) or Film 222(P); or grad st; or cons instr.

313 Programming for Artists I. 3 cr. U/G. An introduction to principles and applications of computer programming languages within art practice. |Art 313 & FineArt 313 are jointly offered; they count as repeats of one another. Prereq: jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.

314 Digital Painting. 3 cr. U. Use image-editing/painting software and tablets to generate digital paintings. Traditional rendering techniques will be considered along with color and kinetic concepts. |Counts as repeat of Art 302 w/same topic. Prereq: soph st & Art 118 (P); or cons instr.

315 Participatory Art and Social Practice. 3 cr. U/G. Students study installation and eco-art, participatory art and social practice, and incorporate contemporary concepts and their strategies into individual and collaborative work. |Counts as repeat of Art 327 w/similar topic. Prereq: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.

316 Interactive and Multimedia Art. 3 cr. U/G. An introduction to interactive art objects and installations using computer vision, signal processing, and/or MIDI and USB technologies. |Art 316 & FineArt 316(211) are jointly offered; they count as repeats of one another. Prereq: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.

317 3D Imaging I. 3 cr. U/G. An introduction to 3D imaging techniques and applications. |Prereq: jr st; admis to Art and Design prog or Inter-Arts/IAT prog; grad st; or cons instr.

318 Electronics and Sculpture. 3 cr. U. Art production using interactive systems such as sensors, microcontrollers, motors, lights. |Prereq: Admis to Art and Design prog or IAT prog; or cons instr.

319 Hybrid Sculptural Forms: (Subtitled). 3 cr. U. Introduction to concrete computing for artists, including robotics, interactive systems; basic programming, and soldering/assembly. Emphasis on production of object oriented art. |May be retaken w/chg in topic to 6 cr max. Art 319 & FineArt 319 are jointly offered & count as repeats of each other. Prereq: Admis to Art and Design prog or Inter-Arts/IAT prog, & Art 118(P); or cons instr.

321 Design and Visual Communication I. 3 cr. U. Basic forms and concepts for design and visual communication. Basic professional and academic concepts explored through studio assignments, lectures and readings. |Prereq: admis to Art and Design prog, grade of B- or better in Art 124(P), 221(228)(P), 223(P) & successful completion of Design and Visual Communication portfolio review.

322 Topics in Illustration: (Subtitled). 3 cr. U. Application of design and media skills to illustration problems. Interrelation of image and typography in various graphic forms. |May be retaken w/chg in topic to max of 6 cr. Prereq: soph st & admis to Art and Design Prog; or cons instr.

323 Typography II. 3 cr. U. Continuation of Art 223; more advanced application of typography in categories of informational and publication design; emphasis on contemporary typographic concepts and designs. |Prereq: grade of B- or better in Art 321(229)(P); 3 cr min Graphic Design expanded studies (grade of C or better).

324 Web Design. 3 cr. U. Introduction to design for the Internet: information architecture, hypertextuality, creative and

client-based sites, critical issues of Internet culture; fundamentals of markup languages, CSS, and software. |Prereq: admis to Art and Design prog or pre-Inter-Arts/IAT prog, & Art 118(P); or grad st; or cons instr.

325 Web Design II. 3 cr. U. Exploration of responsive design using HTML, CSS and prototyping tools/frameworks; focus on design for usability across devices. |Prereq: admis to Art and Design prog or Inter-Arts/IAT prog; & Art 324(P); or grad st; or cons instr.

327 Digital Media Workshop: (Subtitled). 3 cr. U. A concept oriented workshop in digital media. |FineArt 327(351) & Art 327 are jointly offered & count as repeats of each other. May be retaken w/chg in topic to 6 cr max. Prereq: soph st, admis to Visual Art prog or Inter-Arts/IAT prog; or cons instr. See Schedule of Classes for additonal prereq.

332 Woven Structure I. 3 cr. U. Contemporary concepts in weaving using various materials and loom techniques. |Prereq: Admis to Art and Design Prog & Art 231(P); or cons instr.

333 Pliable Materials/Sculptural Forms. 3 cr. U. Contemporary concepts in fiber construction using various materials & hand construction techniques. |Prereq: Admis to Art and Design Prog & Art 231(P); or cons instr.

336 Print, Paint and Dye on Fabric. 3 cr. U. Batik, tie-die and direct application of dyes and pigments on textiles. |Prereq: admis to Art and Design Prog & Art 231(P); or cons instr.

337 Screen Printing on Fabric. 3 cr. U. Design and repeat pattern through the screen printing process on textiles. Use of dyes and pigments, stencil design and cloth construction. |Prereq: admis to Art and Design Prog & Art 231(P); or cons instr.

342 Introduction to Figure Drawing. 3 cr. U. Exploration of the figure through traditional and contemporary interpretations using a variety of drawing mediums. |Prereq: Art 101(P), 201(102)(P), 106(P), & 108(P).

343 Figure Painting. 3 cr. U. Traditional and contemporary approaches to figurative painting explored through art historical examples, expanded media/techniques and the development of personal direction. |Prereq: Art 342(P) & 243(P).

344 Watercolor. 3 cr. U. Painting in transparent watercolor. Introduction to basic principles and techniques. |Prereq: admis to Art and Design prog.

347 Reading Works of Art. 3 cr. U/G. An advanced course in the visual 'reading' of works of art from the artists' point of view. Course includes slide lecture, with discussion. Student presentation required. |Prereq: jr st or cons instr.

350 Visualizing Ideas in Photography. 3 cr. U. Critical theory and practices in photography, along with the aesthetic and technical challenges of digital photography and color capture, concentrating on camera operation, digital workflow practice and digital printing. |Prereq: Art 108(P), 118(P) or Film 117(P); & Art 253(P), 212(P), 221(P) or 291(P); & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.

357 Studio Lighting & Digital Imaging. 3 cr. U/G. Aesthetic and technical challenges of lighting in the studio and other locations, along with an introduction to digital imaging strategies for photographers. |Prereq: Art 118(P) or Film 117 (P), & Art 253(P) or Art 221(P), & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 253; or grad st; or cons instr.

358 (457) Medium and Large Format Photography. 3 cr. U/G. Aesthetic and technical challenges of analog photography with medium and large format cameras, addressing image pre-visualization, image scale, contrast control, photographic developers, scanning, paper surfaces, and fine art printing. |Prereq: jr st & Art 253(P) or Film 117(P) & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 253(P); or grad st; or cons instr.

359 Intermediate Photography Workshop: (Subtitled). 1-3 cr. U. Intermediate special topic workshop course in

photography. | May be retaken w/chg in topic to 6 cr max. Prereq: soph st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.

363 Form and Materials. 3 cr. U. Intermediate level experiences in an expanding range of sculpture processes. Development of expressive awareness through lectures, critiques, discussion and demonstrations. | Prereq: admis to Art and Design prog & Art 261(P).

364 Sculpture II. 3 cr. U. Continuation of Art 363. | Prereq: Art 363(P).

365 Foundry Techniques. 3 cr. U. Basic and advanced techniques using new and traditional moldmaking technologies. Fields trips to iron pours and conferences when possible. | May be retaken to 6 cr max. Prereq: admis to Art and Design prog & Art 261(P).

366 Between Painting and Sculpture. 3 cr. U/G. A studio laboratory consisting of a wide spectrum of techniques and ideologies, concentrating on the exploration of joining painting and sculpture as a consummate form. | Prereq: jr st; Art 261(P).

368 Sculptural Practices: (Subtitled). 3 cr. U. Intermediate level course in specialized sculpture processes & skills. | May be retaken w/chg in topic to 15 cr max. Prereq: admis to Visual Art prog & Art 261(P).

369 Sculpture Workshop: (Subtitled). 3 cr. U. A special topic workshop in sculpture. | May be retaken w/chg in topic change to 6 cr max. Prereq: admis to Art and Design prog & Art 261(P).

371 Construction and Fabrication in Jewelry and Metalsmithing. 3 cr. U. Exploration of construction and fabrication methods and expansion of the aesthetic, physical, functional and cultural vocabulary of specific metalsmithing techniques. Four hours studio monitoring mandatory. | Prereq: admis to Art and Design prog & Art 271(P).

372 The Multiple in Jewelry and Metalsmithing. 3 cr. U. Introduces formal and conceptual issues associated with multiples as an art making strategy, using traditional and experimental casting processes. Four hours studio monitoring mandatory. | Prereq: admis to Art and Design prog & Art 271(P).

378 Industrial Processes and Fabrication. 3 cr. U/G. Survey of fabrication methods with emphasis on manipulation of material through industrial processes. Four hours studio monitoring mandatory. | Prereq: jr st & admis to Art & Design prog or IAT prog; or grad st; or cons instr.

378 (effective 09/04/2018) Industrial Processes and Fabrication. 3 cr. U/G. Survey of fabrication methods with emphasis on manipulation of material through industrial processes. Four hours studio monitoring mandatory. | Prereq: Art 261(P), or Art 271(P), or Art 278(P); or grad st; or cons instr.

379 Jewelry and Metalsmithing Workshop: (Subtitled). 1-3 cr. U. Special topics workshop in jewelry and metalsmithing. | May be retaken w/chg in topic to 6 cr max. Prereq: admis to Art and Design prog & Art 271(P).

381 Throwing and Wheel Construction. 3 cr. U. Introduction to the potter's wheel as a forming tool, including integration of hand built and wheel thrown forms, and basic glaze formulation. | Prereq: admis to Art and Design prog & Art 281(P).

382 Building from the Figure in Clay. 3 cr. U. Human form in clay through observation, drawing and modeling using a variety of ceramic construction methods. Individual conceptual and expressive approaches emphasized. | Prereq: Admis to Art and Design prog & Art 281(P); or cons instr.

383 Molds and Multiples in Ceramics. 3 cr. U. Moldmaking for ceramics focusing on plaster molds. Press molds and slip casting methods for replication of forms in series, and issues of multiplicity are addressed. | Prereq: admis to Art and Design prog & Art 281(P); or cons instr.

384 Experimental Processes in Woodfiring I. 3 cr. U. Contemporary approaches to the ancient process of woodfiring. Development of personal aesthetic using woodfire effects on functional and sculptural work. Technical research, firing participation required. |Prereq: admis to Art and Design prog & Art 281(P); or cons instr.

389 Ceramics Workshop: (Subtitled). 1-3 cr. U. A short term special topic workshop in ceramics. |May be retaken w/chg in topic 6 cr max. Prereq: admis to Art and Design prog & Art 281(P); or cons instr.

391 (298) Intermediate Print & Narrative Forms: (Subtitled). 3 cr. U. Continuation of Print and Narrative Forms with focused studio investigations in specialized print media and book arts techniques. |May be retaken w/chg in topic to 6 cr max. Prereq: Admis to Art and Design prog; and Art 291(P); or grad st; or cons instr.

392 Lithography. 3 cr. U/G. Studio work based on stone and plate lithography; lectures on history, multicolor printing, polyester plate and experimental techniques in lithography. |Prereq: Art 291(P); or grad st & cons instr.

393 Digital Printmaking. 3 cr. U. A studio course exploring digital media and traditional printmaking. Media/content focus to include array of relevant topics. |Prereq: admis to Art and Design prog; & Art 291(P), 221(P), or 253(P); or admis to Inter-Arts/IAT; or cons instr.

394 Intaglio. 3 cr. U/G. Studio work in intaglio; drypoint engraving, etching, relief-intaglio; aquatint, experimental procedures, color printing, development of personal graphic concept. |Prereq: Art 291(P); or grad st & cons instr.

396 Photo Screenprinting. 3 cr. U/G. Screen-print process using the photo-stencil to reproduce hand-drawn and computer manipulated marks and images; printing skills, experimentation with materials and multiple reproduction. |Prereq: Art 291(P), 253(P), 231(P), or 221(P); or grad st & cons instr.

397 Book Arts Workshop: (Subtitled). 3 cr. U/G. Studio work exploring traditional and experimental book structures. Media/content focus variable to include array of relevant topics. |May be retaken to 6 cr max. Prereq: jr st; or grad st; or cons instr.

398 Photo Printmaking. 3 cr. U. Studio practice in the use of photo-sensitized plates, various printmaking processes (intaglio, lithography, relief) with emphasis on multiple plate color printing. |Prereq: admis to Art and Design prog & Art 291(P) or 253(P).

402 Art and Design Workshop: (Subtitled). 1-3 cr. U/G. Special topic course in Art and Design. |May be retaken w/chg in topic change to 6 cr max. Prereq: jr st & admis to Art and Design prog; or grad st; or cons instr.

405 Product Realization. 3 cr. U/G. This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process. 2.5 hrs lecture. |Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Counts as repeat of Art 402/Ind Eng 590/MechEng 490 with same topic. Prereq: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.

406 Community Arts II. 3 cr. U/G. Intermediate study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals. |Prereq: Art 306(P); or grad st; or cons instr.

412 (411) Advanced Digital Studio. 3 cr. U/G. An advanced, concept oriented studio course where students produce Digital Studio art. | Prereq: jr st, admis to Art & Design prog or IAT prog, & Art 312(P); or grad st; or cons instr.

418 Advanced Electronics and Sculpture: (Subtitled). 3 cr. U/G. Advanced art production using interactive systems such as sensors, microcontrollers, motors, lights for interactivity installations & performance. |May be retaken/chg in topic to 9 cr max. Prereq: jr st, admis to Art prog or IAT prog, & Art 318; or grad st; or cons instr. See schedule of classes for any additional prereqs.

421 Design and Visual Communication II. 3 cr. U. Intermediate level emphasizes a beginning professional synthesis of fundamentals of typography, symbol, image in comprehensive design projects. |Prereq: grade of B- or better in Art 321(229)(P), 323(328)(P) & 3 cr min Graphic Design expanded studies (grade of C or better).

422 Design Methodologies: Process, Communication & Theory. 3 cr. U. Focus on creative process and communication; and entrepreneurial, professional and cross-disciplinary practices in design and related fields. |Prereq: Art 321(P) & successful completion of or exemption from a QL-A course; or cons instr.

422 (effective 09/04/2018) Design Methodologies: Process, Communication & Theory. 3 cr. U. Focus on creative process and communication; and entrepreneurial, professional and cross-disciplinary practices in design and related fields. |Prereq: Art 323(P) & successful completion of or exemption from a QL-A course; or cons instr.

423 Experimental Typography. 3 cr. U/G. Advanced understanding of typography, its use in innovative information systems, its historical context and function in various media including print, architectural applications, Web and multimedia. |Prereq: jr st & B- or better in Art 323(328)(P); or grad st; or cons instr.

424 Topics in Web, Interaction and Screen Design: (Subtitled). 3 cr. U. Exploration of concepts and technologies in web, interaction and screen design. Topic and additional prerequisites will be published in Schedule of Classes; students must meet additional prereqs. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; or cons instr.

426 Motion Graphics. 3 cr. U/G. Introduction to history and production of short-duration motion graphics (industry, Internet, titling, graphics, creative projects) using contemporary production tools (video editing, compositing, audio recording/sequencing). |Prereq: jr st & Art 118(P); or grad st; or cons instr.

427 Advanced Design Workshop: (Subtitled). 1-3 cr. U/G. A short term, concept oriented workshop in graphic design. |May be retaken w/chg in topic 6 cr max. Prereq: jr st & cons instr.

431 Special Topics in Fibers: (Subtitled). 3 cr. U/G. Advanced problem-solving working toward the development of cohesive body of work in non-loom construction. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.

432 Woven Structure II. 3 cr. U/G. Continuation of ART 332. Further development of individual concepts in weaving leading to a cohesive body of work. |Prereq: jr st, & Art 332(232)(P); or cons instr; or grad st.

433 Digital Imaging for Fabric. 3 cr. U/G. Digital processes and screen-printing on textiles with an emphasis on individual expression. |Prereq: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.

434 Fibers III-Weaving. 3 cr. U/G. Individual research and execution of projects in various processes of weaving. Professional execution of work emphasized. |Prereq: jr st; Art 432(P).

435 Mixed Materials: Concept/Object. 3 cr. U/G. Individual research and execution of projects in various processes of non-loom fiber construction. Professional execution of work emphasized. |Prereq: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.

436 Cloth Construction: Surface to Structure. 3 cr. U/G. Individual research and execution of projects in various processes of fabric printing and construction. |Prereq: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.

438 Fiber Workshop: (Subtitled). 3 cr. U/G. A special topic course in fibers. |May be retaken w/chg in topic to 6 cr max. Prereq: See semester Schedule of Classes.

441 Advanced Drawing Strategies I. 3 cr. U/G. Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work with both assigned and independently-conceived problems. |Prereq: jr st & Admis to Art and Design prog; or grad st.

442 Figure Drawing Explorations. 3 cr. U. Focus on the human figure. Emphasis on personal interpretations in studio-based and outside assignments. |Prereq: jr st, admis to Art and Design prog, & Art 342(P).

443 Painting Strategies. 3 cr. U. Emphasis on painting concepts, problem solving, research, construction strategies and development of personal direction. |Prereq: jr st, admis to Art and Design prog & Art 343(P); or 243(P) & cons instr.

444 Watercolor. 3 cr. U. Continuation of Art 344. Greater emphasis on individual development and experimental use of the medium. |Prereq: Art 344(P).

447 Reading Works of Art. 3 cr. U/G. Continuation of Art 347. |Prereq: jr st or cons instr.

449 Painting And Drawing Workshop: (Subtitled). 1-3 cr. U/G. A short term, special topic course in painting and drawing. Additional prereqs may appear in the Schedule of Classes. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st or writ cons instr.

451 Special Topics in Photography: (Subtitled). 3 cr. U/G. Specific topic and additional prerequisites will appear in the Schedule of Classes each time the course is offered. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st, Art 253(P), Art 350(P) & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or Art 357(P) or Art 358(P); or grad st; or cons instr

452 Contemporary Issues in Photography. 3 cr. U/G. Addresses critical issues, theory, and practices surrounding contemporary photography and how photographers have worked to challenge, expand, and reinvent the medium. |Prereq: jr st, admis to Photo prog, cumulative 2.67 GPA in photo curriculum, Art 253(P), B- or better in Art 350(P); or Photo minors with Art 350(P) or Art 358(P) or Art 357(P); or grad st; or cons instr.

454 Narrative Photography. 3 cr. U/G. Investigation of contemporary and historical narrative strategies that range from documentary to tableau and move from single images to sequencing. |Prereq: jr st, Art 253(P), Art 350(P) & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P), 358(P), or 357(P); or grad st; or cons instr.

456 Advanced Digital Photography. 3 cr. U/G. Exploration of critical concepts through advanced digital color management, retouching, manipulation, compositing, image appropriation, and expanded media to include time-base media, emerging capture/output technologies and hybrid practices. |Prereq: jr st, Art 253(P) & Art 350(P) or Art 357(P); or Art 212(P) & Art 312(P); or Art 221(P) & Art 321(P), & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or Art 357(P); or grad st; or cons instr.

458 (352) Photographic Materials and Processes. 3 cr. U/G. Exploration of experimental methods and aesthetics of the photograph as object from image capture to print, including darkroom manipulation, historical processes, hybrid practice, and alternative presentation strategies. Prereq: jr st, Art 253(P) & 350(P) or 358(P); or Art 291(P) & 391(P) or 392(P) or 393(P) or 394(P); or Art 212(P) & 312(P); & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or 358(P) or 357(P); or grad st;

459 Advanced Photography Workshop: (Subtitled). 1-3 cr. U/G. Advanced special topic workshop course in photography. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or gr st; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.

461 Structural Fabrication/Assembled Objects. 3 cr. U. Exploration of welding processes, wood-working techniques, and mixed media assemblage. |Prereq: jr st, admis to Art and Design prog, & Art 261(P).

464 Contemporary Figure Sculpture. 3 cr. U. Exploration and investigation of the human figure from live models. Includes study of anatomy and historical references. |Prereq: jr st, admis to Art and Design prog, & Art 261(P).

468 Advanced Sculptural Practices: (Subtitled). 3 cr. U/G. Advanced level course in specialized sculpture processes & skills. May be retaken w/chg in topic to 15 cr max. Prereq: jr st & Art 368(P); or grad st. See Schedule of Classes for additional prereq.

469 Sculpture Workshop: (Subtitled). 1-3 cr. U/G. A short term special topic workshop in sculpture. Specific topic and additional prerequisites may appear in the Timetable each semester. May be retaken w/chg in topic to a 6 cr max. Prereq: jr standing or writ cons instr.

470 Metal Forming. 3 cr. U. Development of technical competency in metal forming and angle raising through traditional and experimental processes. Four hours studio monitoring mandatory. Prereq: admis to Art and Design prog & Art 271(P).

472 Color on Metal. 3 cr. U. Exploration of surface enrichment through vitreous enamel on metal and other traditional and experimental coloration techniques. Four hours studio monitoring mandatory. Prereq: admis to Art and Design prog & Art 271(P).

473 Special Topics in Jewelry and Metalsmithing: (Subtitled). 3 cr. U. Specific topic and additional prerequisites will appear in Schedule of Classes each time the course is offered. Four hours studio monitoring mandatory. May be retaken w/chg in topic to 12 cr max. Prereq: admis to Art and Design prog & Art 271(P).

474 Portfolio Development in Jewelry and Metalsmithing. 3 cr. U/G. Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, visual documentation and portfolio presentation. Four hours studio monitoring mandatory. May be retaken to 12 cr max. Prereq: jr st & Admis to Art and Design prog; Art 371(P) or 372(P) or 378(P) or 470(P) or 472(P) or 473(P) or 478(P); or grad st & cons instr.

478 Digital Fabrication and Craft. 3 cr. U/G. Survey of fabrication methods with an emphasis on computer numeric controlled fabrication & exploration into digital fabrication & craft. Four hours studio monitoring mandatory. Prereq: jr st & Admis to Art & Design prog or IAT prog; Art 271(C), 277(C), 278(C), or 378(C); or grad st; or cons instr.

478 (effective 09/04/2018) Digital Fabrication and Craft. 3 cr. U/G. Survey of fabrication methods with an emphasis on computer numeric controlled fabrication & exploration into digital fabrication & craft. Four hours studio monitoring mandatory. Prereq: Art 277(P) & 261; Art 277(P) & 271(P); Art 277(P) & 278; or grad st; or cons instr.

479 Jewelry and Metalsmithing Workshop: (Subtitled). 1-3 cr. U/G. Special topics workshop in jewelry and metalsmithing. May be retaken w/chg in topic to 6 cr. max. Prereq: jr st, & Admis to Art and Design prog, & Art 271(P); or grad st & cons instr.

481 Ceramics Special Topics and Portfolio I. 3 cr. U/G. Advanced problem-solving working toward the development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics. Prereq: jr st, & Admis to Art and Design prog, & Art 281(P); or cons instr; or grad st & cons instr.

482 Ceramics Special Topics and Portfolio II. 3 cr. U/G. Continuation of ART 481. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics. Prereq: jr st, & Art 481(P); or grad st & cons instr.

483 Ceramics Special Topics and Portfolio III. 3 cr. U/G. Continuation of ART 482. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics. Prereq: jr st & Art 482(P); or grad st.

489 Ceramics Workshop: (Subtitled). 1-3 cr. U/G. A short-term special topic course in ceramics. May be retaken w/chg in topic to max of 6 cr. Prereq: jr st & writ cons instr.

493 Advanced Digital Printmaking. 3 cr. U/G. An advanced studio course exploring digital media and traditional printmaking. Media/content focus to include array of relevant topics. Prereq: jr st & Art 393(293)(P); or grad st; or cons

instr.

495 Advanced Printmaking: (Subtitled). 3 cr. U/G. Develop conceptual base of work and expand range of print skills with emphasis on color printing and combination print processes. |May be retaken to 6 cr max. Prereq: jr st & Art 392(P) or 393(293)(P) or 394(P) or 396(P) or 398(P); or grad st; or cons instr.

496 Sequence and Structure. 3 cr. U/G. Advanced studio course exploring the creation of sequential art and the development of visual narratives using experimental book structures as well as electronic media (web, multimedia). |Prereq: jr st & Art 291(P) or 253(P); or 221(228)(P); or grad st & cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Studio and special problems designed to provide relevant course work for a study abroad program in the visual arts. |May be retaken w/chg in topic to max of 12 cr. Prereq: jr st; acceptance in Study Abroad Prog.

499 Advanced Printmaking Workshop: (Subtitled). 3 cr. U/G. Special topic course in Print and Narrative Forms. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st; or grad st; or cons instr. Add'l prereqs may appear in Schedule of Classes each time course is offered.

502 Undergraduate Classroom Assistantship in Art and Design. 3 cr. U. Student classroom experience as an assistant to the course instructor in a closely-monitored mentoring situation. |May be retaken to 6 cr max. Prereq: jr st & cons instr.

505 BA Project. 1 cr. U. BA students collect, organize, synthesize & present capstone project in public event. |Credit/No Credit only. Prereq: sr st, Art 604(C).

505 (effective 01/22/2019) BA Project. 3 cr. U. BA students collect, organize, synthesize & present capstone project in public event. |Prereq: sr st, Art 604(C).

507 Undergraduate Research Assistantship in Art and Design. 1-3 cr. U. An opportunity for juniors and seniors to work collaboratively with an Art and Design faculty member on a specific and sustained research project. |May be retaken to 6 cr max. Prereq: jr st & cons instr.

509 Art & Design Seminar: (Subtitled). 3 cr. U/G. Topics and critical issues in the modern and/or contemporary field of art. Student research and written/oral reports required. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st; & completion of Oral and Written Communication (OWC) Competency Part A GER, or cons instr.

522 Topics in Advanced Illustration: (Subtitled). 3 cr. U. Advanced course exploring contemporary illustration: technologies for its creation, dissemination and viewing, its relationship to design and fine art practice. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st & Art 322(P); or cons instr.

524 Professional Practice in Design: (Subtitled). 3-6 cr. U/G. Preparation for the design profession through research, writing and portfolio development. Graduate level requires additional research. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st, & Art 323(C); or grad st; or cons instr.

526 Research in Universal Design and Fabrication. (Subtitled). 3 cr. U/G. Exploration of topics focused on Human Factors in Universal Design. |May be retaken w/chg in topic to 6 cr max. Counts as repeat of Art 427 with similar topic. Prereq: jr st; Art 221(P), 378(P), or 478(P); or grad st.

528 Print Production and Presentation Techniques. 3 cr. U. Introduction to aspects of design production including scheduling, budgeting, pre-press, paper selection, printing, digital files, vendor communication; digital and hand-assembled mock-ups will be produced. |Prereq: Art 221(228)(P); or cons instr.

529 Design and Visual Communication III. 3 cr. U/G. Capstone course emphasizes a complete and comprehensive synthesis of design and visual communication through comprehensive studio projects developed for a graduate

portfolio.|Prereq: jr st, & grade of B- or better in Art 421(329)(P) & 6 cr (final 3 may be taken conc) Design and Visual Communication Expanded Studies (grade of C or better); or grad st & cons instr.

531 Senior Project in Fibers. 3 cr. U. Further development of fiber investigations leading to a final project for BFA exhibition.|May be retaken w/chg in topic to 6 cr max. Prereq: sr st & cons instr.

539 Fibers-Independent Study. 1-6 cr. U/G. Individual program of supervised study for the advanced student in fibers.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; Admis to Art and Design prog; or grad st, & cons instr.

541 Advanced Drawing Strategies II. 3 cr. U/G. Continuation of Art 441. Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work on assigned and independently-conceived problems.|Prereq: jr st & Art 441(P); or grad st.

542 Advanced Figure Drawing Explorations. 3 cr. U/G. Continuation of Art 442. Advanced focus on the human figure. Emphasis on personal interpretations in studio-based and outside assignments.|Prereq: jr st; admis to Art and Design prog & Art 442(P); or grad st.

543 Painting Studio. 3 cr. U/G. Advanced investigation of painting focused upon personal image exploration through independently conceived problems.|May be retaken to 9 cr max. Prereq: jr st & Admis to Art and Design prog; Art 441(P), & 443(P); or grad st.

552 Studio Practice and Research in Photography. 3 cr. U/G. Research and development of a body of photographic work.|Prereq: sr st, admis to Photo prog, cumulative 2.67 GPA in photo curriculum, B- or better in Art 452 (P), & two of the following: 451(P), 454(P), 456(P), 458(P); or grad st; or cons instr.

553 Senior Project in Photography. 3 cr. U. Further development of studio investigations leading to a final project for BFA Exhibition.|Prereq: sr st, grade of B- or better in Art 552(P); or cons instr.

561 Conceptual Process, Sculptural Presence. 3 cr. U/G. Development of advanced concepts in contemporary sculpture.|May be retaken to 6 cr max. Prereq: jr st; Admis to Art and Design prog, & Art 261(P), & 363(P); or 365(P); or 461(P); or 464(P); or grad st.

562 Environmental Sculpture and Installation. 3 cr. U/G. Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.|May be retaken to 6 cr max. Prereq: jr st & Admis to Art and Design prog; Art 363(P) & 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.

567 Senior Project in Sculpture. 3 cr. U. Further development of independent sculpture investigations leading to a final project for BFA Exhibition.|Prereq: sr st & Art 561(P); or 562(P); or cons instr.

575 Senior Project in Jewelry and Metalsmithing. 3 cr. U. Research and create a cohesive body of work based on technical, aesthetic and conceptual explorations for BFA Exhibition.|May be retaken to 6 cr max. Prereq: sr st & Art 371(P), 474 (P); & four of the following: 372(C), 378 (C), 470(C), 472(C), 473(C), 478(C); or cons instr.

578 Research in Digital Fabrication and Craft: (Subtitled). 3 cr. U/G. Interdisciplinary research into digital fabrication, rapid prototyping and design.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; Art 378(C) or 478(C); or cons instr.

578 (effective 09/04/2018) Research in Digital Fabrication and Craft: (Subtitled). 3 cr. U/G. Interdisciplinary research into digital fabrication, rapid prototyping and design.|May be retaken w/chg in topic to 6 cr max. Prereq: Art 478(P); or grad st; or cons instr.

583 Senior Project in Ceramics. 3 cr. U. Further development of independent investigations in ceramics leading to a final project for BFA Exhibition.|Prereq: sr st & Art 482(P); or cons instr.

584 Experimental Processes in Woodfiring II. 3 cr. U/G. Advanced research and further development of personal aesthetic in woodfiring. Leadership in supervising the firing process required. |Prereq: jr st, & Art 384(P); or grad st & cons instr.

591 Portfolio in Print and Narrative Forms. 3 cr. U/G. Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, professional writing samples, visual documentation and portfolio presentation. |Prereq: jr st; gr st; or cons instr.

595 Colloquium: Print and Narrative Forms. 3 cr. U/G. Imaging and hybrid forms in contemporary photographic, book arts, narrative forms and print work. |May be retaken to 6 cr max. Prereq: jr st; or grad st; or cons instr.

597 Senior Project in Print and Narrative Forms. 3 cr. U. Further development of studio investigations leading to a final project for BFA Exhibition. |Prereq: sr st & cons instr.

603 Advanced Studio Practice. 1-3 cr. U/G. A special course open only to seniors and graduate students with written cons instr. |May be retaken to max of 3 cr. Prereq: sr st; writ cons instr.

604 Professional Practices. 3 cr. U. Preparation for graduating seniors with skills needed for a career in the competitive field of art: resumes, grants, budgets, taxes. |Prereq: sr st; & successful completion of, or exemption from, a QL-A course, or cons instr.

605 BFA Exhibition. 1 cr. U. Independent supervised preparation and exhibition in Art & Design to fulfill BFA degree requirements. |Prereq: sr st, enrol conc in an advanced studio course; or cons instr.

606 BFA Exhibition in Design. 1 cr. U. Supervised preparation and exhibition in conjunction with Art 529 Graphic Design III to fulfill degree requirements. |Prereq: Art 421(P) & 529(C).

608 Art and Design Internship. 3-6 cr. U/G. Provides structured opportunities for art students to earn credit for skills and professional experience gained working in galleries, museums, studios, arts organizations or art businesses. |May be retaken to 6 cr max. Prereq: jr st & admis to Art and Design prog; or grad st & cons instr.

609 Independent Reading and Research. 1-3 cr. U/G. |May be retaken/chg in topic to 9 cr max. Prereq: sr st & writ cons instr.

612 (618) Senior Project in Digital Studio Practice. 3 cr. U. Further development of independent investigation in Digital Media, leading to a final project for BFA Exhibition. |Prereq: sr st & cons instr.

621 The Design Group. 3 cr. U. Development of advanced understanding of visual, theoretical, historical, professional and technical aspects of design practice through work with client(s). |May be retaken to 6 cr max. Prereq: cons instr.

627 Design Seminar: (Subtitled). 3 cr. U/G. Role and responsibility of professional designer investigated. Topics may include contemporary trends and issues, design education, ethics, social activism, career opportunities. |Prereq: jr st; or grad st; or cons instr.

629 Graduate Graphic Design I. 3 cr. U/G. Individual research in graphic design. |Prereq: Art 529(P) or cons instr.

643 Senior Project in Painting. 3 cr. U. Further development of independent painting investigations leading to a final project for BFA Exhibition. |Prereq: sr st & Art 543(P); or cons instr.

645 Painting and Drawing Critique. 3 cr. U/G. An advanced critique format course to investigate painting and drawing mediums. Students will develop and discuss conceptual, technical, and collective dialogue strategies. |Prereq: sr st or writ cons instr.

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ART ED Art Education

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130 Multicultural Art and Visual Learning in Elementary Education. 3 cr. U. A study of art and its relationship to human development. Designed for teachers interested in providing developmentally appropriate art experiences for children from pre-school through 6th grade. Lectures, discussions, readings, and lab activities will emphasize the use of art materials, equipment, and visual aids|Not open for degree cr to Art & Art Ed majors. Not open for degree cr to Art & Art Ed majors. Prereq: none.

227 Introduction to Art Education. 3 cr. U. Early introduction to the field of art education, afford students opportunity to observe in schools, and provide Art Ed faculty opportunity to connect with students earlier in program.|Prereq: soph st; admis to Art and Design prog.

228 Learning Processes in Art Education. 3 cr. U. Introduction to theories of visual learning, art criticism centered on contemporary artists, academic language for teaching in K-12 settings. Exploration of portable technologies in teaching-learning.|Prereq: soph st; admis to Art and Design prog.

327 Art Education Theory and Practice: Elementary. 6 cr. U. Theory and practice explored through school-based field experiences, readings, and research. Curriculum design and implementation with an urban focus. 50 hrs of observations in elementary school required.|Counts as repeat of Art Ed 225, 250, & 375. Prereq: jr st, admis to Art Ed prog, & completion of Oral and Written Communication (OWC) Competency Part A GER, & cons instr.

328 Art Education Theory and Practice: Secondary. 6 cr. U. Theory and practice explored through school-based field experiences, readings, and research. Curriculum design and implementation with an urban focus. 50 hrs of observations in secondary school required.|Counts as repeat of Art Ed 325 & 350. Prereq: jr st , admis to Art Ed prog, Art Ed 327(P), & successful completion of or exemption from a QL-A course & cons instr.

425 Student Teaching in Art I - Elementary Levels. 5 cr. U. Pre-professional teaching internship in preschool/kindergarten through sixth grade.|Prereq: sr st & Art Ed majors or Art Cert students only, dept GPA requirements, English proficiency, health clearance, Art Ed 227(P), 327(P), 328(P), 426(C), & cons instr.

426 Student Teaching in Art II: Secondary Levels. 5 cr. U. Pre-professional teaching internship in grades seven through twelve.|Prereq: sr st & Art Ed majors or Art Cert students only; dept GPA requirements, English proficiency, health clearance, Art Ed 227(P), 327(P), 328(P), 425(C), & cons instr.

489 Art Education Workshop: (Subtitled). 1-3 cr. U/G. A short-term, concept-oriented workshop in the visual and tactile arts with special focus on current issues of particular interest to the professional art educator. |May be retaken w/chg in topic to max of 6 cr. Prereq: jr st & cons instr.

699 Independent Reading and Research. 1-4 cr. U. |May be retaken for cr. Prereq: sr st & writ cons instr.

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ARTHIST Art History

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A. Art History Intro Survey Courses

101 Ancient and Medieval Art and Architecture. 3 cr. U. The great originative styles of Egypt, Greece, Rome, and the Christian West in architecture, sculpture, and painting.|Prereq: none.

102 Renaissance to Modern Art and Architecture. 3 cr. U. Representative masters in the historical development of European painting, sculpture, and architecture from the fifteenth century to the present.|Prereq: none.

103 History of Architecture. 3 cr. U. Architecture from Stonehenge to the present, examining the nature of the art, major styles and significant architects, and relation to society, technology, and the environment.|Prereq: none.

104 African, New World and Oceanic Art and Architecture. 3 cr. U. Major art forms in oceanic, pre-Columbian, American Indian, and African art; their functions and meanings.|Prereq: none.

105 Asian Art and Architecture. 3 cr. U. Functions and meanings of major art forms in the art of Asia, including India, China, Japan, and Southeast Asia.|Prereq: none.

111 Entertainment Arts: Film, Television, and the Internet. 3 cr. U. History of film, television, and the Internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form.|ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

210 The Art and Architecture of the First Cities: A Global Perspective. 3 cr. U. The art and monuments of the first cities of the ancient world from the Near East to the Americas which gave rise to urbanization as we know it.|Prereq: none.

240 Introduction to Prints and Printmaking: History and Techniques. 3 cr. U. The history of print media and

its development in Europe, Asia, and the Americas since 1450. Emphasis on historical, artistic, material, cultural contexts.|Prereq: none.

B. Art History Ancient Art

312 Minoan and Mycenaean Art and Archaeology. 3 cr. U/G. Architecture, sculpture, and painting in the Aegean during the Bronze Age, with emphasis on recent archaeological discoveries.|Prereq: jr st.

313 Greek Art and Archaeology. 3 cr. U/G. Major developments in Greek art from Archaic times through the Hellenistic period. Emphasis on architecture, sculpture, and painting of the Archaic and Classical periods.|Prereq: jr st.

314 Art and Archaeology of the Ancient Near East. 3 cr. U/G. Ur, Gilgamesh, Mesopotamia; the art and archaeology of the first cities in the ancient Near East from the Neolithic to Alexander the Great's conquest.|Counts as repeat of ArtHist 499 w/same topic. Prereq: jr st; ArtHist 101(P).

315 Art and Archaeology of Ancient Egypt. 3 cr. U/G. Architecture, arts, and crafts created for Egyptian kings, nobles, and commoners from the Predynastic period (5500 B.C.E.) to Cleopatra (31 B.C.E.).|Prereq: jr st; ArtHist 101(R).

316 Roman Art and Archaeology. 3 cr. U/G. Major developments in the evolution of Roman architecture, sculpture and painting from Republican through late Imperial times.|Prereq: jr st.

412 Cities and Sanctuaries of Ancient Greece. 3 cr. U/G. Development of Greek urban and religious architecture from Archaic through Hellenistic times. The growth of such centers as Athens, Delphi, Olympia, Paestum, Priene, and Pergamon.|Prereq: jr st.

413 Greek Sculpture. 3 cr. U/G. Development of sculpture from the Geometric Period through the Hellenistic age. All forms of sculpture considered, not just freestanding works.|Prereq: jr st.

C. Art History Medieval Art

220 Introduction to Medieval Art and Architecture. 3 cr. U. Introduces key principles of artistic production in the late Roman, early Christian, Byzantine, and Medieval periods, c. 150-800 CE, including the style, the role of the Bible in medieval image theory, iconography, and typology.|Prereq: none.

324 Early Christian and Byzantine Art and Architecture. 3 cr. U/G. Art and architecture of Constantinople and vicinity from the fourth to the fifteenth century.|Prereq: jr st or cons instr.

325 Early Medieval Art in the West. 3 cr. U/G. Architecture, sculpture, metalwork, and manuscript illumination from c.500-c.1050 C.E. in Ireland, Britain, France, Spain, Germany, Scandinavia, and Northern Italy.|Prereq: jr st; ArtHist 101(R).

329 Late Medieval Art and Architecture. 3 cr. U/G. Church architecture, manuscript illumination, and architectural and figural sculpture from the Gothic era to the rise of the Renaissance.|Prereq: jr st or cons instr.

425 Romanesque Art and Architecture. 3 cr. U/G. Development of church architecture of the eleventh and twelfth centuries in France, England, and Germany.|Prereq: jr st.

425 (effective 09/04/2018) The Age of Pilgrimage and Crusade: Romanesque Art and Architecture. 3 cr. U/G. Development of church architecture of the eleventh and twelfth centuries in France, England, and Germany.|Prereq: jr st.

426 French Gothic Art and Architecture C.1130-C.1300. 3 cr. U/G. Gothic art and architecture from its origins in the Ile-de-France through the High Gothic cathedrals to the European-wide diffusion of the Rayonnant style.|Prereq: jr st; ArtHist 101(R) or 220(R).

426 (effective 09/04/2018) The Age of the Great Cathedrals: Gothic Art and Architecture. 3 cr. U/G. Gothic art and architecture from its origins in the Ile-de-France through the High Gothic cathedrals to the European-wide diffusion of the Rayonnant style.|Prereq: jr st; ArtHist 101(R) or 220(R).

D. Art History Renaissance & Baroque Art

237 Northern Renaissance Art. 3 cr. U. Painting, graphics, and sculpture, 1364-1569; their influence on great 15th- and 16th-century styles. Main French, Dutch, and German artistic developments in historical context.|Prereq: soph st.

241 Introduction to Baroque Art. 3 cr. U. Representative masters of the 17th century, including Caravaggio, Rubens, Rembrandt, Bernini, Velazquez, and Poussin.|Prereq: soph st.

255 Survey of Italian Renaissance Painting and Sculpture. 3 cr. U. Overview of Italian Renaissance art, tracing its origins with the painter Giotto in the fourteenth century to its culmination in Michelangelo's sixteenth-century masterpieces.|Prereq: none

260 Spanish Visual Art and Culture: 1450-1830. 3 cr. U. Masterpieces by Spanish artists, including El Greco, Velazquez, and Goya; the social and intellectual forces at play in their works.|Prereq: soph st.

333 High Renaissance Art in Italy. 3 cr. U/G. The formation of the great style discussed in terms of the attainments of representative artists such as Leonardo da Vinci, Michelangelo, Raphael, and Titian.|Prereq: jr st.

341 Art of the Dutch Golden Age. 3 cr. U/G. The development of art in Flanders and Holland during the seventeenth century, examining the works of artists Rubens, Van Dyck, Rembrandt, Hals, and Vermeer.|Prereq: jr st.

342 Art and Society in Renaissance Florence. 3 cr. U/G. Masterpieces by artists including Donatello, Piero della Francesca, and Botticelli in concert with Florentine civic discourse on politics, religion, and gender.|Prereq: jr st.

343 (445) Art and Culture of Spain and Latin America, 1500-1750. 3 cr. U/G. Art and culture in Spain and its empire, including Mexico and Peru. Major artists such as El Greco, Velázquez, and Ribera.|Prereq: jr st or cons instr.

351 English Art: 1550-1850. 3 cr. U/G. Architecture, painting, and sculpture in England from Elizabeth I to the Great Exhibition of 1851; emphasis on Wren, Adam, Reynolds, Gainsborough, Constable, and Turner.|Prereq: jr st.

431 Renaissance Architecture in Italy. 3 cr. U/G. Florentine and other Italian architecture in the fifteenth and sixteenth centuries; such artists as Brunelleschi, Alberti, Bramante, Leonardo da Vinci, Michelangelo, and Palladio. |Prereq: jr st.

447 Topics in Early Modern Art: (Subtitled). 3 cr. U/G. Key themes, genres, and artists in European art from the fourteenth through the seventeenth centuries. Themes may include gender, politics, and religion.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

E. Art History Eighteenth Century to Present

261 Modern Art. 3 cr. U. Survey of characteristics and developments of modern art movements. Representative theories, groups, and personalities.|Prereq: none.

357 Nineteenth-Century Painting in Europe. 3 cr. U/G. History of European painting from 1800 to 1900.|Prereq: jr st.

358 Modern Painting I: 1850-1900. 3 cr. U/G. Realist, Impressionist, and Post-Impressionist movements in historical and intellectual contexts; emphasis on Courbet, Manet, Renoir, Degas, Pissaro, Seurat, Cezanne, Gauguin, Ensor, Munch, Van Gogh.|Prereq: jr st.

359 Modern Architecture I: The European Foundations of Modern Architecture. 3 cr. U/G. An aesthetic, stylistic, theoretical, technical and functional study of European architecture from the end of the Baroque style to the beginning of Modernism.|Prereq: jr st; ArtHist 101(R) & 102(R).

360 Modern Architecture II: The Rise of Modern Architecture. 3 cr. U/G. Emphasizing the work of the major modern architect, the course traces the evolution of architecture from the beginnings of Modernism to the present time.|Prereq: jr st.

361 Modern Architecture III: Contemporary Architecture. 3 cr. U/G. The intellectual, visual, and social evolution of architecture since the early 1960's.|Prereq: jr st; ArtHist 360(P) or cons instr.

363 Modern Sculpture: 1880-1945. 3 cr. U/G. Development of the Expressionist, Cubist, Futurist, Dada, Surrealist, and Constructivist movements and work of independent sculptors against the twentieth century historical and intellectual background.|Prereq: jr st.

364 Modern Painting II: 1900 to the Present. 3 cr. U/G. Development of the Fauve, Cubist, Expressionist, Dada, Surrealist, and Abstract movements against the historical and intellectual background of the twentieth century. Emphasis on leading individual twentieth century artists.|Prereq: jr st.

365 History of Photography. 3 cr. U/G. A survey of photography from its inception in 1826 to the present. Topics include stylistic and technological evolution, cultural impact, and aesthetic considerations of photography.|Prereq: jr st; ArtHist 102(R) or 357(R).

366 German Painting, 1800-1933. 3 cr. U/G. Major German painters from Runge to Beckmann. Romantic art theory, landscape, Expressionism, and 'Neve Sachlichkeit'.|Prereq: jr st.

367 Latin American Modernisms. 3 cr. U/G. Modernist developments in Latin American art, circa 1900 to circa 1960. National and regional histories and artistic trajectories; relationships between European and Latin American modernisms.|Prereq: jr st.

368 History of Modern Design. 3 cr. U/G. An investigation of the craft or decorative arts-specially furniture, ceramics, glass, metalwork, and textiles-from the Great Exhibition of 1851 to the present.|Prereq: jr st.

369 Introduction to Contemporary Art. 3 cr. U/G. Legacies of Minimalism and Conceptual Art on global contemporary art movements such as site-specific art, earth and land art, institutional critique, body and performance art.|Counts as repeat of ArtHist 470 w/same topic. Prereq: jr st.

370 Trends in Contemporary Architecture. 3 cr. U/G. Current trends in architectural practice, focusing on organic and animate built forms, as well as modular and portable structures within performative, digital, and visual architecture.|Prereq: jr st.

463 Cubism and its Inheritance. 3 cr. U/G. The development of Cubism by Picasso and Braque and its progeny in Paris, in futuristic Italy, and in constructivist Russia.|Prereq: jr st.

464 European Art, 1890-1910. 3 cr. U/G. European art in a pivotal period in the history of modern painting, architecture, and sculpture; post-impressionism, symbolism, art nouveau, fauvism, expressionism, and cubism.|Prereq: jr st.

465 Dada and Surrealist Art. 3 cr. U/G. Two major twentieth-century art movements; their sources, major proponents, and later influence; Duchamp, De Chirico, Ernst, Giacometti, Picasso, Miro, Magritte, Dali.|Prereq: jr st.

471 Topics in Contemporary Art: (Subtitled). 3 cr. U. Art from the 1960s to the present.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

472 History and Theory of New Media Art. 3 cr. U/G. The history and critical theory of new media artworks, focusing on artists who utilize interactive technologies.|Prereq: jr st.

473 Art and Performance. 3 cr. U/G. Intersections between art and performance, beginning in the 1960s, and including performance and body art, live art, dance, and participatory or relational post-studio art practice.|Prereq: jr st.

F. Art History American Art

250 Introduction to American Art. 3 cr. U. Traces major artists, styles, themes, and issues in American painting, sculpture, and photography from colonial through contemporary periods.|Prereq: soph st.

349 (467) American Postmodernism 1960-2000. 3 cr. U/G. Critical survey of Pop, Op, Kinetic, Systemic, Minimal, Colorfield, New-Realism, Antiform, Earthworks, Conceptual, and other avant-garde movements.|Prereq: ArtHist 102(P)

353 American Art: Colonial Period - 1870. 3 cr. U/G. Architecture, painting, sculpture, and decorative arts of colonial America through the civil war period with emphasis on their aesthetic and social contexts.|Prereq: jr st.

354 American Art: 1870 - Present. 3 cr. U/G. Painting, sculpture, and the decorative arts from 1870 to the present with emphasis on their aesthetic and social contexts.|Prereq: jr st.

355 American Folk Art. 3 cr. U/G. Survey of American folk art from colonization to the present. Emphasis on major styles and themes, regional developments, and relationship to the fine arts.|Prereq: jr st.

459 American Architecture. 3 cr. U/G. Architecture in the United States from its beginnings in the 17th century to its absorption into international Modernism at the time of World War II.|Prereq: jr st; ArtHist 103(P) or 102(P) or cons instr.

462 Frank Lloyd Wright. 3 cr. U/G. The work of America's and Wisconsin's best-known architect presented in its historical, cultural and philosophical contexts.|Prereq: jr st; one of the following courses recom: ArtHist 102(R), 359(R), 360(R), 459(R).

469 American Artists Revealed: (Subtitled). 3 cr. U/G. Focus on prominent 19th and 20th century American master artists working in various genres and formal approaches.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

470 Topics in American Art: (Subtitled). 3 cr. U/G. In-depth examination of important themes, genres, or subgroups in the evolution of American art.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

G. Art History Non-Western Art

251 Introduction to the Art and Architecture of Latin America. 3 cr. U. Art and architecture of Latin America from 1492 to the mid-twentieth century.|Prereq: none.

270 Pre-Columbian Art, Myth, and Legacy. 3 cr. U. The conquest of the Americas and the art of three Pre-Columbian civilizations: the Aztec, Maya, and Inca.|Prereq: none.

281 Modern and Contemporary Chinese Art. 3 cr. U. Comprehensive survey of modern and contemporary Chinese art history.|Prereq: none.

327 Art and Architecture of Islamic Spain. 3 cr. U/G. Visual arts of the peoples that lived in Al-Andalus (the Arabic name for Muslim Spain) from the 8th to the 15th centuries.|Prereq: jr st or cons instr.

327 (effective 09/04/2018) Caliphs, Emirs, & Kings: Art & Architecture of Medieval Spain. 3 cr. U/G. Visual arts of the peoples that lived in Al-Andalus (the Arabic name for Muslim Spain) from the 8th to the 15th centuries.|Prereq: jr st or cons instr.

371 African Art. 3 cr. U/G. Art of the indigenous peoples of different sections of Africa, with consideration of both aesthetic qualities and the social context of the art.|Prereq: jr st.

372 Art of the Inca and their Ancestors. 3 cr. U/G. Native arts of South America before European contact; emphasis on artistic developments in the Andean region.|Prereq: jr st.

373 Art of Ancient Mexico and Central America. 3 cr. U/G. Arts of ancient Mexico and Central America; emphasis on the Olmec, the Maya, and the Aztecs.|Prereq: jr st.

375 Art of the Aztec Empire. 3 cr. U/G. Comprehensive introduction to the art of the Aztec Empire, including architecture, monumental sculpture, small-scale sculpture, ceramics, painting, lapidary work, goldwork, and featherwork.|Counts as repeat of ArtHist 499 with same subtitle. Prereq: jr st.

382 Chinese Art and Architecture. 3 cr. U/G. Chinese bronzes, jades, painting, sculpture, and architecture from the Neolithic (5000 B.C.E.) to the modern period, including Buddhist, Daoist, Confucianist, and Communist art.|Prereq: jr st.

383 Japanese Art and Architecture. 3 cr. U/G. Japanese temples, shrines, paintings, prints, and crafts from the Neolithic to the modern period, including films, Zen art, and the tea ceremony.|Prereq: jr st.

384 Art and Archaeology of the Chinese Bronze Age. 3 cr. U/G. In-depth study of ritual bronzes and other crafts created for nobles and commoners of the Bronze Age, with emphasis on recent archaeological discoveries.|Prereq: jr st.

386 Art, Ritual, and Ethnicity of China. 3 cr. U/G. In depth introduction to the ethnic arts and religions of China; architecture, painting, film, and religious ceremonies of Daoism, Buddhism, and Dongba.|Prereq: jr st or cons instr.

474 Maya Art. 3 cr. U/G. Ancient Maya art, with emphasis on the Classic Period florescence, its development, and major themes.|Prereq: jr st.

480 Chinese Painting. 3 cr. U/G. Major developments in Chinese painting from 6 B.C.E. to the modern period, including landscapes, figures, flowers-and-birds, and calligraphy.|Prereq: jr st.

481 Topics in Chinese Art: (Subtitled). 1-3 cr. U/G. In-depth examination of important themes, genres, or subgroups in the evolution of Chinese art.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

482 Topics in Non-Western Art: (Subtitled). 3 cr. U/G. In-depth examination of major themes, genres, or

regional sub-groups within the field of non-western art.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

H. Art History Film Art

205 History of Film I: Development of an Art. 3 cr. U. The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.|ArtHist 205 & FilmStd 205 are jointly offered; they count as repeats of one another. Prereq: none.

206 History of Film II: Development of an Art. 3 cr. U. The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.|ArtHist 206 & FilmStd 206 are jointly offered; they count as repeats of one another. Prereq: none.

307 Film Directors: (Subtitled). 3 cr. U/G. Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work.|May be retaken w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another. Prereq: jr st; ArtHist 205(R) or 305(R).

308 Film Styles: (Subtitled). 3 cr. U/G. A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.|May be retaken w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another. Prereq: jr st.

I. Art History General Art

289 Internship in Art History, Lower Division. 1-6 cr. U. Application of basic principles of art history in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in ArtHist; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

381 Honors Seminar: (Subtitled). 3H cr. U. Specific topics vary.|May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

458 A Comparative History of Architecture and Urbanism: (Subtitled). 3 cr. U/G. Physical history of contrasting cities, concentrating on architectural development of all types: institutional, commercial, industrial, residential, and recreational. Emphasizes historical context as well as formal development.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

489 Internship in Art History, Upper Division. 1-6 cr. U. Application of advanced principles of art history in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in ArtHist; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

501 Colloquium in Method and Theory: (Subtitled). 3 cr. U. An undergraduate research seminar in various aspects of the history of art, with papers presented by students. | Satisfies L&S research req. May not be retaken for cr. Prereq: jr st; declared Art History major; cons instr.

691 Art Museum Internship. 3 cr. U. Supervised practical experience in local art museums arranged on individual basis. Introduction to curatorial and/or administrative duties; 'hands on' treatment of works of art. | May be retaken for 3 additional cr. Prereq: jr st; at least 6 cr ArtHist at the 300 level or above & cons internship coord.

699 Independent Study. 1-3 cr. U. Advanced independent work under the supervision of an ArtHist faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept chair. | May be retaken w/chg in topic to 6 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

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103 Survey of Astronomy. 3 cr. U. History of astronomy; planets; stellar evolution, nucleosynthesis; death of stars: white dwarfs, neutron stars, black holes; galaxies and quasars; expansion of the universe, dark matter; the big bang.|Prereq: math placement level 10.

104 (effective 09/04/2018) Astronomy Laboratory. 1 cr. U. Observations of planets, stars, stellar clusters, and galaxies; related experiments. Correlated with Astron 103.|Prereq: Astron 103(C) or Astron 211(C).

104 Astronomy Laboratory. 1 cr. U. Observations of planets, stars, stellar clusters, and galaxies; related experiments. Correlated with Astron 103; can be taken with Astron 300.|Prereq: Astron 103(C) or 400(300)(C).

185 Astronomy for Pre-Education Majors. 3 cr. U. Space: how we know and what we know; the solar system, stars, galaxies, and the universe. 2 hrs lec, lab.|Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

211 Principles of Astronomy. 3 cr. U. Light and matter; planets; stellar evolution, nucleosynthesis; death of stars; white dwarfs, neutron stars, black holes; galaxies, quasars; expansion of universe, dark matter; big bang.|Prereq: Physics 120(P) or 209(P) or cons instr.

289 Internship in Astronomy, Lower Division. 1-6 cr. U. Application of basic principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in astron; 2.25 gpa; cons supervising faculty member.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic.|Prereq: none; add'l prereqs may be assigned to specific topic.

400 Astrophysics I. 3 cr. U. Introductory astrophysics for students with junior-/senior-level background in mathematics and physics. Light and matter; stars and the sun; extrasolar planets; compact objects. |Prereq: Astron 103(P) or 211(P) or cons instr; Physics 309(P); Physics 317(R) recom.

401 Astrophysics II. 3 cr. U. Continuation of Astron 400; for students with junior-/senior-level background in mathematics and physics. The Milky Way Galaxy; galactic evolution; structure of the Universe; cosmology. |Prereq: Astron 400(300)(P).

489 Internship in Astronomy, Upper Division. 1-6 cr. U. Application of advanced principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in astron; 2.25 gpa; cons supervising faculty member.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

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ATM SCI Atmospheric Sciences

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100 Survey of Meteorology. 3 cr. U. Concepts and principles of meteorology; cyclones, fronts, thunderstorms, tornadoes, air pollution, and climate. Interpretation of weather maps, charts, and forecasts. 2 hrs lec, 2 hrs lab-dis. |Counts as repeat of 3 cr Atm Sci 100 taken for 4 cr. Prereq: none.

106 Principles and Forecasting of the Weather. 3 cr. U. What makes the weather, general circulation of the atmosphere, analysis of meteorological data and their use in predicting the weather. |Prereq: none.

108 Rain and Snow. 3 cr. U. Study of precipitation properties and processes in the atmosphere. Structure of precipitating systems ranging from small to large scale. |Prereq: none.

109 Thunderstorms, Tornadoes and Hurricanes. 3 cr. U. The study of basic processes that lead to dry and moist convection. Characteristic atmospheric structure and cloud microphysical processes that produce thunderstorms, tornadoes and hurricanes. |Prereq: none.

110 The Origin, Composition, and Structure of the Planetary Atmospheres. 3 cr. U. Origin of the solar system, its planets, and planetary atmospheres. |Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. |May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

240 Introduction to Meteorology. 3 cr. U. Quantitative approach to understanding fundamental concepts in meteorology. Radiation, heat balance of the atmosphere, thermodynamics, horizontal motion, general circulation, atmospheric observations, clouds, weather map analysis. |Not open for cr to students with Atm Sci 201. Prereq: Physics 209(P) & 214(P); Math 232(C).

289 Internship in Atmospheric Sciences, Lower Division. 1-6 cr. U. Application of basic knowledge of Atmospheric Sciences in business, organizational, educational, political or other appropriate setting. |One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

330 Air-Pollution Meteorology. 3 cr. U/G. Pollutant sources and sinks, fundamental pollutant chemistry, monitoring techniques, averaging boundary layers and turbulence, diffusion theories, diffusion models, regional and global-scale pollution problems. | Prereq: Atm Sci 240(P); Chem 102(P); stats course recom.

350 Atmospheric Thermodynamics. 3 cr. U/G. Radiant energy, sensible heat, and atmospheric thermodynamics; the gas laws; hydrostatic and psychrometric equations; dry and moist convection; clouds and their physical and energy relations. Optional field exercise. | Prereq: jr st; Physics 210(P); Math 232(P); Atm Sci 240(P).

351 Dynamic Meteorology I. 3 cr. U/G. The role of dynamics in atmospheric physics; equations of motion; symmetric circulation models; gravity waves; Rossby waves, quasi-geostrophy; introduction to instability of atmospheric flows. | Prereq: jr st; Atm Sci 240(P); Math 233(P).

352 Dynamic Meteorology II. 3 cr. U/G. Circulation, vorticity, potential vorticity; shallow water equations: Poincare, Kelvin, and Rossby waves, energy and enstrophy; quasi-geostrophy for a stratified atmosphere; barotropic and baroclinic instability. | Prereq: jr st; Atm Sci 351(P); Math 234(P).

360 Synoptic Meteorology I. 4 cr. U/G. Fundamental principles; synoptic-scale structure and dynamics; equivalent barotropic model; vertical motions; introduction to and application of quasi-geostrophic theory. | Prereq: jr st; Math 232(P); Physics 210(P); Atm Sci 240(P).

361 Synoptic Meteorology II. 4 cr. U/G. Extension of quasi-geostrophic theory to Q-vectors; isentropic potential vorticity applied to mid-latitude weather systems; fronts and jets. | Prereq: jr st; Atm Sci 360(P).

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics. | May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

405 Atmospheric Science for in-Service Teachers: 1-3 cr. U/G. Basic, advanced or new topics in atmospheric sciences for in-service teachers. | May be retaken w/chg in topic to 9 cr max. Prereq: in-service teacher; add'l prereqs depending on topic.

460 Mesoscale Circulations. 3 cr. U/G. Theory, analysis and forecasting of mesoscale flows, including convective systems, polar lows, terrain and surface-forced flows, jet streams and hurricanes. | Prereq: jr st; Atm Sci 360(R) or cons instr.

464 Physical Meteorology: Cloud Physics. 3 cr. U/G. Formation of cloud droplets, droplet growth by condensation, formation of ice crystals, precipitation processes, weather radars, cloud models. | Prereq: jr st; Physics 210(P); Math 232(P); Atm Sci 350(P).

470 Tropical Meteorology. 3 cr. U/G. Dynamics and energetics of tropical circulations. Origins and evolution of equatorial disturbances and easterly waves. Structure and dynamics of tropical cyclones. Hurricane modeling and prediction. | Prereq: Atm Sci 351(P) or 360(P).

480 The General Circulation and Climate Dynamics. 3 cr. U/G. Historical overview, the zonally symmetric circulation, momentum, heat and water budgets, stationary waves, the El Nino Southern oscillation, global warming, interpentadal variability in the North Atlantic. | Prereq: jr st; Atm Sci 351(P).

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Statistical Methods in Atmospheric Sciences. 3 cr. U/G. Mathematical and statistical tools applicable to the investigation of atmospheric problems; the nature and treatment of atmospheric data. | Prereq: jr st; Atm Sci 240(P) or 350(P), & Math 232(P) or cons instr.

505 Micrometeorology. 3 cr. U/G. Surface energy budget; radiation balance and heat transfer; boundary-layer profiles of wind, temperature and moisture; turbulence and boundary-layer fluxes; evapotranspiration; special topics. | Prereq: jr st; Atm Sci 351(P) & 330(P).

511 Seminar in Atmospheric Radiation and Remote Sensing. 3 cr. U/G. Basic laws of radiation, absorption and scattering, weather radar, retrieval of soundings, remote sensing and climate, weather satellites. | Prereq: jr st; Math 232(P); Atm Sci 350(P) & Physics 210(P).

520 Advanced Dynamic Meteorology. 3 cr. U/G. Properties of atmospheric sound, gravity, Rossby waves. Baroclinic instability, cyclogenesis, frontogenesis, and the general circulation. Introduction to numerical prediction. | Prereq: jr st; Math 234(P), Atm Sci 350(P) & 351(P) or equiv.

599 Capstone Experience. 1 cr. U. Student writes a paper under supervision of an advisor on an approved topic not covered in the student's regular course work. | May be retaken w/chg in topic to 2 cr max. Prereq: sr st; cons instr.

690 Seminar in Atmospheric Sciences: (Subtitled). 1-3 cr. U/G. Intensive topical studies of currently active problem areas. | May be retaken w/chg in topic to 9 cr max. Satisfies L&S Seminar req. Prereq: jr st; cons instr.

695 Internship in Atmospheric Sciences, Upper Division. 1-6 cr. U. Application of advanced principles of atmospheric sciences in a business, organizational, educational, political or other appropriate setting. | One cr earned for 40 hrs work. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in atm sci; 3.0 gpa in the major; cons supervising faculty.

699 Advanced Independent Reading. 1-3 cr. U. Independent meteorological study. | May be retaken w/chg in topic to 3 cr max. Prereq: jr st, 2.5 gpa, & writ cons instr, dept chair, & asst dean for SAS.

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BIO SCI Biological Sciences

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100 Survey of Zoology. 3 cr. U. Survey of the animal kingdom, with emphasis on the importance of animals to humans. Study of phyla as represented by types, classification, structure, and life histories. Introduction to cytology, genetics, evolution, and ornithology. 2 hrs lec, 2 hrs lab.|Does not carry cr toward bio sci major. Prereq: none.

101 General Survey of Microbiology. 4 cr. U. The nature and activities of microorganisms, including surveys of bacteria, fungi, viruses, immunology, and disease applications. 3 hrs lec, 3 hrs lab.|Intended primarily for nursing students. Does not carry cr toward bio sci major. Prereq: Chem 101(P) or 102(P).

102 Elements of Biology. 3 cr. U. Organization and function of living systems. 2 hrs lec, 2 hrs lab.|Intended for non-majors; does not carry cr toward bio sci major. Prereq: none.

103 Topics in Modern Biology: (Subtitled). 3 cr. U. How biological factors, processes, and reactions affect living systems. Emphasis on current issues in biology such as genetic engineering, bioethics, and population concerns.|Intended for non-majors; does not carry cr toward bio sci major. May be retaken w/chg in topic to 9 cr max. Students w/cr in Bio Sci 226 or 250 may not take 103 w/those topics. Prereq: none, except as may be required for specific topics.

104 Plants in Today's World. 3 cr. U. Introduction to major plant groups; principles of structure and function, ecology, and gardening. 2 hrs lec, 2 hrs lab.|Prereq: none.

150 Foundations of Biological Sciences I. 4 cr. U. Fundamental principles of biology (ecology, evolution, genetics, molecular and cell biology) integrated through evolutionary framework. First of two-course sequence for bio sci, other science majors. 3 hrs lec, 3 hrs lab. Open to freshmen.|Prereq: Chem 100(P) or 102(P) or conc reg.

152 Foundations of Biological Sciences II. 4 cr. U. Organismal diversity, emphasizing structural and functional relationships in microorganisms, plants, and animals. Second of a two-course sequence for Bio Sci & other natural science majors. 3 hr lec, 3 hr lab.|Prereq: grade above C- in Bio Sci 150(P).

194 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

201 Human Structure and Function. 3 cr. U. Brief introduction to human anatomy and physiology. 2 hrs lec; 3 hrs lab.|No cr toward Bio Sci major. Does not substitute for Bio Sci 202/3 for Nursing & Health Sci. No cr for students w/cr in Bio Sci 202 or 203. Prereq: none.

202 Anatomy and Physiology I. 4 cr. U. Anatomy and physiology of the human body including cell, tissues, skeletal, muscular, and nervous systems. 3 hrs lec, 3 hrs lab.|Required of students in nursing, med tech & med rec admin. Cannot be combined with Bio Sci 150 & 203 for more than 9 cr toward the bio sci major. Prereq: none.

203 Anatomy and Physiology II. 4 cr. U. Anatomy and physiology of the human body including cardiovascular, respiratory, digestive, excretory, endocrine, and reproductive systems. 3 hrs lec, 3 hrs lab.|Cannot be combined with Bio Sci 150 & 202 for more than a total of 9 cr toward bio sci major. Cell & Molec Bio. Prereq: C or better in either Bio Sci 202(P) or 315(P).

206 Biology of Women. 3 cr. U. An anatomical and physiological view of the human female life cycle with emphasis on women's health.|Prereq: course in biology.

289 Internship in Biological Sciences, Lower Division. 1-6 cr. U. Application of basic principles of biological sciences in a business, organizational, educational, political, or other appropriate setting.|Specific topics may satisfy major area req; consult dept. One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max; combined limit of 3 cr in Bio Sci 289 & 489 counts toward Bio Sci major. Prereq: intro course in Bio Sci; 2.50 gpa; cons supervising faculty member.

290 Independent Study and Research: (Subtitled). 1-3 cr. U. Directed library or laboratory/field research in biological sciences.|Specific topics may satisfy major area req; consult dept. May be retaken to 6 cr max. Does not count as a Bio Sci lab course. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.|May be retaken to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs and srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Specific topics may satisfy major area req; consult dept. May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

310 General Ecology. 4 cr. U. Complex interrelationships between organisms and their environment. Physiological and behavioral adaptations, populations, biotic communities, ecosystems. 3 hrs lec, 3 hrs lab, field work.|Prereq: grade of C or better in Bio Sci 152(P).

315 Cell Biology. 3 cr. U. Cell structure and function at the molecular level. Flow of material, energy, and information within prokaryotic and eukaryotic cells. 3 hrs lec.|Cell & Molec Bio; Microbio. Prereq: grades of C or better in both Bio Sci 152(P) & Chem 104(P).

316 Laboratory in Genetics and Cell Biology. 2 cr. U. Laboratory studies in genetics and cell biology using microorganisms, plants, and animals. Hypothesis testing, data collection, computer and literature analyses, and writing of scientific papers. 1 hr dis, 3 hr lab.|Cell & Molec Bio; Microbio. Prereq: grades of C or better in both Bio Sci 152(P) & Chem 104(P); Bio Sci 315(C) or 325(C).

325 Genetics. 4 cr. U. Principles of inheritance. Fundamental concepts of genetics. 3 hrs lec, 2 hrs dis.|Cell & Molec Bio; Microbio. Prereq: grade of C or better in Bio Sci 150(P); Bio Sci 152(C) or 203(P); Chem 104(C).

350 Human Parasitology. 4 cr. U. Biology, diagnosis and epidemiology of human parasitic diseases. For life science and clinical lab science students interested in public health. 3 hrs lec, 3 hrs lab.|Prereq: jr st; Bio Sci 310(C) or Bio Sci 325(C) or cons instr.

354 Introduction to Neuroscience I: From Neuron to Brain. 3 cr. U. Basic principles of cellular, molecular, and developmental neuroscience; structure/function of neurons and glia, chemical and electrical signaling, brain development, and neurological diseases.|Cell & Molec Bio. Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 354 & Psych 354 are jointly offered; they count as repeats of one another. Prereq: C or better in Bio Sci 315(P) or in Psych 254(P).

355 Introduction to Neuroscience II: From Brain to Behavior. 3 cr. U. Basic principles of neural systems and behavior; analysis of systems for sensation and perception, learning and memory, language, emotion, and motion.|Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 355 & Psych 355 are jointly offered; they count as repeats of one another. Prereq: BioSci 152(P) & 315(C), or Psych 254(P).

356 Developmental Biology. 3 cr. U. Development of living organisms at the molecular, cellular, and organismal levels. 3 hrs lec.|Cell & Molec Bio. Prereq: grade of C or better in either Bio Sci 315(P) or 325(P) or cons instr.

358 (305) Birds of Wisconsin. 2 cr. U. Bird taxonomy and ecology, including the identification of Wisconsin birds. 4 hrs lab & field work.|Field trip schedules (if any) and fees will be announced in class. Prereq: jr st; Bio Sci 150(P).

370 Animal Physiology. 3 cr. U. Cellular and organ system physiology and comparative aspects of structure-function relationships.|Cell & Molec Bio. Prereq: Bio Sci 315(P) or cons instr.

372 Animal Physiology and Neurobiology Laboratory. 1 cr. U. Neural integration of animal cells and organ systems. Comparative experimental approach examining structure-function relationships. 3 hrs lab.|Cell & Molec Bio. Prereq: Bio Sci 370(C) or Bio Sci/Psych 354(C) or 355(C).

380 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in modern and traditional biology and their relation to society.|Specific topics may satisfy major area req; consult dept. May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

383 General Microbiology. 4 cr. U. Nature and properties of microorganisms. Molecular biology and genetics of bacteria and viruses. Major groups, ecological relationships, and taxonomy. 3 hrs lec, 4 hrs lab.|Cell & Molec Bio; Microbio. Prereq: grade of C or better in Bio Sci 325(P) or cons instr; Chem 341(C) or 343(C).

401 Immunology. 3 cr. U/G. Fundamentals of the immune response, including cellular, physiological and molecular aspects. 3 hrs lec.|Cell & Molec Bio; Microbio. Prereq: jr st; grade of C or better in Bio Sci 315(P) or 325(P); Chem 341(P) or 343(P); or cons instr.

402 Immunological Techniques. 3 cr. U/G. Modern methods and protocols in immunology. 6 hrs lab.|Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 401(P).

405 General Virology. 3 cr. U/G. Basic course in nature of viruses: bacterial, plant, and animal. The use of viruses in model systems for molecular biology and agents of disease.|Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 325(P); Bio Sci 315(P) or 383(P); Chem 501(R).

406 Marine Biology. 3 cr. U/G. Marine biology with a strong ecological focus; physical and chemical constraints that marine environments impose on organisms; specialized adaptations of marine organisms in response. 3 hrs lec, 1 hr dis.|Prereq: jr st; grades of C or better in Bio Sci 152(P) & 310(C) or consent of instructor.

407 Plant Systematics and Evolution. 3 cr. U/G. Survey of important plant families; plant systematic theory, current techniques in data collection and analysis. 2 hrs lec/dis; 4 hrs lab.|Prereq: jr st; Bio Sci 152(P); Bio Sci 310(C) or

325(C); or grad st; or cons instr.

430 Animal Behavior-Ethology. 3 cr. U/G. Animal behavior from the biologist's point of view, relating species-characteristic behavior to environment, internal function, ontogeny, and evolution. 3 hrs lec/dis. |Prereq: jr st; Bio Sci 310(P) or 316(C).

440 Ecology and Evolution of Amphibians and Reptiles. 3 cr. U/G. Evolutionary history of amphibians and reptiles; their patterns of biological diversity, morphology, life history, ecology, and behavior. For upper-level undergrad and grad students. 3 hrs lec. |Prereq: jr st; Bio Sci 310 (P).

440 (effective 09/04/2018) Ecology and Evolution of Amphibians and Reptiles. 3 cr. U/G. Evolutionary history of amphibians and reptiles; their patterns of biological diversity, morphology, life history, ecology, and behavior. For upper-level undergrad and grad students. 3 hrs lec. |Prereq: jr st; Bio Sci 310 (P).

451 Field Methods in Conservation. 3 cr. U/G. Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab. |Jointly offered with & counts as repeat of CES 451. Prereq: jr st; Bio Sci 310(P) or equiv or cons instr.

455 Neurobiology. 3 cr. U/G. Nervous systems from cellular, molecular, and developmental perspectives; from basic biophysical properties of neurons to cellular and molecular basis of nervous system development and function. |Not open to students w/cr in Bio Sci/Psych 354. Cell & Molec Bio. Prereq: jr st, Bio Sci 315(P); or grad st.

458 Community Ecology. 3 cr. U/G. Theories and models in community ecology. Analysis of biological communities emphasizing the origin, maintenance and consequences of species diversity within local communities. |Prereq: jr st; Bio Sci 152(P) & 310(P) or cons instr; or grad st.

465 Biostatistics. 3 cr. U/G. Simple distribution; statistical inference; simple regression theory; experimental design; analysis of variance and covariance as they relate to biology. |Prereq: jr st; Bio Sci 150(P); Math 105(P).

469 Genomic Data Analysis. 2 cr. U/G. Methods for the analysis of large-scale genomic data sets, including whole-genome association studies and transcriptomics. |Prereq: jr st; Bio Sci 325(P) & 465(P) or equiv; or cons instr.

475 Tropical Biology: (Subtitled). 3 cr. U/G. Ecology and biogeography of various types of tropical forests, including required field trip to area being studied. |Required field trip at participants' expense. May be retaken w/chg in topic to 9 cr max. Prereq: jr st; BioSci 310(P); cons instr.

480 Ecological Genetics. 3 cr. U/G. Origin and maintenance of genetic variation within and among populations. Fundamental theory and application to ecology and conservation. |3 hrs lec/dis. Prereq: jr st, Bio Sci 310(P) & 325(P); or equiv.

489 Internship in Biological Sciences, Upper Division. 1-6 cr. U. Application of advanced principles of biological sciences in a business, organizational, educational, political, or other appropriate setting. |Specific topics may satisfy major area req; consult dept. One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max; combined limit of 3 cr in Bio Sci 289 & 489 counts toward Bio Sci major. Prereq: jr st; 300-level or above course in Bio Sci; 2.50 gpa; cons supervising faculty member.

490 Molecular Genetics. 3 cr. U/G. Molecular mechanisms of higher organisms and model systems. Topics include gene structure, genetic and genomic analysis, gene expression and regulation. 2 hrs lec, 1 hr dis. |Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 325(P); Bio Sci 315(C) & 316(C).

495 Internship in Biotechnology, Upper Division. 3-6 cr. U. Application of advanced principles in microbiology and biotechnology in appropriate settings. |One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: jr st; Bio Sci 383(303)(P) & 529(650)(P); declared microbio major; 2.5 gpa; cons supervising faculty member.

496 UROP Apprenticeship, Upper-Level. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. |May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work. |May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Developmental Genetics. 3 cr. U/G. How genetic model organisms contribute to our knowledge of biology and how this knowledge impacts human health. |Cell & Molec Bio. Prereq: jr st; grade of C or better in Bio Sci 325(P).

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Specific topics may satisfy major area req; consult dept. May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Plant Physiology. 3 cr. U/G. Major biological activities of plants; including growth, development, and metabolism. 3 hrs lec/dis. |Cell & Molec Bio. Prereq: jr st; Bio Sci 325(P); Bio Sci 310(P) or 315(P) or cons instr.

501 Plant and Aquatic Ecophysiology Laboratory. 3 cr. U/G. Hands-on examination of ecophysiological activities in plants and aquatic ecosystems using diverse field and lab experimental methods. 1 hr lec, 1 hr dis. 2 hrs lab. |Cell & Molec Bio. Prereq: jr st; Bio Sci 325(P) or 310(P).

502 Introduction to Programming and Modeling in Ecology and Evolution. 3 cr. U/G. Using R statistical language to teach script programming to address data manipulation, statistical modeling, and simple simulations in an ecological and evolutionary context. |Counts as repeat of Bio Sci 599 w/similar topic. Prereq: jr st; intro stats (e.g., Bio Sci 465).

505 Conservation Biology. 3 cr. U/G. Genetic and ecological approaches to the conservation of biological diversity. Topics include biology of rare plants and animals, design of nature reserves, and restoration ecology. 3 hrs lec. |Prereq: jr st; Bio Sci 152(P) & 325(260)(P).

507 (607) Environmental Microbiology. 3 cr. U/G. Bacteria from the environment; emphasis on aquatic systems; biogeochemical cycles, bioremediation, and environmental control of gene expression. |Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 383(P).

511 Ichthyology. 3 cr. U/G. The diverse biology of fishes focusing on behavioral, biomechanical, genetic, and physiological adaptations to diverse ecological systems. |Bio Sci 511 & FrshWtr 511 are jointly offered; they count as repeats of one another. Prereq: jr st; grade of C or better in Bio Sci 310(P); or cons instr.

512 Limnology I. 3 cr. U/G. The ecology of freshwater ecosystems as influenced by physical and chemical processes. |Prereq: jr st; Bio Sci 150(P) & 152(P), course in chem; or cons instr.

523 Evolution and Ecology of Birds. 3 cr. U/G. Study of the origin and maintenance of diversity in birds. Topics include systematics, biogeography, life-history behavior, and conservation. 3 hrs lec. |Prereq: jr st; Bio Sci 152(P) & 310(P).

529 Molecular Biology of Microorganisms. 3 cr. U/G. Molecular analysis of microbial genetic systems of bacteria, phage, fungi, and yeast. 2 hrs lec, 1 hr dis. |Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 383(P).

532 (effective 09/04/2018) Behavioral Ecology. 3 cr. U/G. Behavioral adaptations of organisms in relation to their environment, including social organization, territoriality, cooperation and conflict, parental care, breeding strategies, foraging. |Prereq: jr st; Bio Sci 310(P).

532 Behavioral Ecology. 3 cr. U/G. Behavioral adaptations of organisms in relation to their environment, including social organization, territoriality, cooperation and conflict, parental care, breeding strategies, foraging. |Prereq: jr st; Bio Sci 310(P).

535 Bacterial Pathogenesis. 3 cr. U/G. Structural and physiological characteristics of important bacteria causing human and animal diseases. Interactions between pathogen and host, including host defense mechanisms. |Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 383(P).

536 Applied Microbiology and Biotechnology. 3 cr. U/G. Real-world application of natural and genetically-engineered microorganisms to bioremediation, waste treatment, agriculture and production of food, beverages, chemicals, fuels, enzymes, vaccines and pharmaceuticals. 3 hrs lec. |Cell and Molec Bio; Microbio. Prereq: jr st; Bio Sci 383(P) or cons instr.

537 Industrial Microbiology and Biochemistry Laboratory. 2 cr. U/G. Experiments using industrial fermentation approaches for isolation of biologically-relevant molecules, e.g., antibiotics; analysis of their function and activity using microbiological and biochemical techniques. |Bio Sci 537 & Chem 537 are jointly offered; they count as repeats of one another. Cell & Molec Bio; Microbio. Prereq: Bio Sci 383(P); Chem 501(P).

539 Laboratory Techniques in Molecular Biology. 4 cr. U/G. Molecular biological techniques, including cell cultures, RNA and DNA isolation, cloning and sequencing of genes; use of expression vectors; protein electrophoresis. 2 hrs lec/dis, 6 hrs lab. |Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 315(P), 316(P), & 325(P).

540 Microbial Diversity and Physiology. 3 cr. U/G. Physiology, ecology, and diversity of microorganisms. 3 hrs lec. |Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 383(P).

542 Biological Electron Microscopy. 3 cr. U/G. Theory, design, and operating principles of scanning and transmission electron microscopes; preparation of biological specimens. |Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 315(P) & 316(P), or cons instr.

543 Scanning Electron Microscopy Laboratory. 2 cr. U/G. Lab/dis with an emphasis on 'hands-on' exercises including biological specimen prep, microscope operation and photography. |Cell & Molec Bio. Prereq: jr st; Bio Sci 542(C) & cons instr.

544 Transmission Electron Microscopy Laboratory. 3 cr. U/G. Lab/dis with an emphasis on 'hands-on' exercises including fixation and sectioning of biological specimens, microscope operation and photography. |Cell & Molec Bio; Microbio. Prereq: jr st; 3 cr in Bio Sci 542(C); cons instr.

545 Physiology of Reproduction. 3 cr. U/G. Mammalian reproductive physiology with emphasis on humans; neuroendocrine control of reproductive cycles, pregnancy, and lactation; clinical implications; biological aspects of human population control. |Cell & Molec Bio. Prereq: jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.

556 Developmental Neurobiology. 3 or 4 cr. U/G. The mechanisms involved in the genesis and maintenance of nervous system organization. 3 hrs lec, 1 hr dis. |Cell & Molec Bio. Grad students enroll in lec & dis for 4 cr. Undergrads may enroll in lec only for 3 cr or lec & dis for 4 cr. Prereq: jr st; Bio Sci 354(P) or 356(P) or cons instr.

562 Topics in Field Biology: (Subtitled). 1-2 cr. U/G. Intensive mini-course on applied and basic field biology topics, e.g. vegetation sampling; natural area management; wetland delineation; identification, ecology of a taxon. On-line component; 2 or more days (depending on topic) in-person instruction. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st; Bio Sci 310(P) or equivalent; add'l prereqs may be required depending on topic.

564 Endocrinology. 3 cr. U/G. Physiological, biochemical, and phylogenetic aspects of hormonal communication; emphasis on vertebrates. 3 hrs lec. |Cell & Molec Bio. Prereq: jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.

565 Eukaryotic Gene Regulation. 3 cr. U/G. Molecular mechanism by which genes are regulated in higher eukaryotes, including humans. Role of gene regulation during normal development and disease in eukaryotes. |Cell & Molec Bio. Prereq: jr st, Bio Sci 315(P) or 325(P); or grad st.

566 Cell Biology of Human Disease. 3 cr. U/G. Cellular and molecular mechanisms of human developmental diseases; cell signaling in the treatment and prevention of diseases and genetic syndromes. |Cell & Molec Bio. Prereq: jr st, BioSci 315(P); or grad st.

572 Functional Genomics. 3 cr. U/G. Organization, function, and analysis of genes, proteins, and genomes using internet databases and bioinformatic tools; current knowledge of genomes in various organisms; transcriptomics and proteomics. 2 hrs lec, 1 hr dis. |Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 325(260)(P).

573 Cellular Evolution. 3 cr. U/G. Theories concerning the origin of life on Earth and the evolution of cellular structure and function, culminating in the emergence of the multicellular kingdoms. 2 hrs lec, 1 hr dis. |Cell & Molec Bio; Microbio. Prereq: sr st; Bio Sci 315(P) or 325(P); Bio Sci 316(P); Chem 341/342(P) or 343/344/345(P), or cons instr; Bio Sci 383(R) or 490(R) or Chem 501(R) or 601(R).

575 Evolutionary Biology. 3 cr. U/G. Evolutionary processes in natural populations. Topics include mating patterns, speciation, gene flow, natural selection, and genetic approaches to conservation. 3 hrs lec. |Grad students must reg conc in Bio Sci 776. Prereq: jr st; Bio Sci 152(P) & 325(260)(P).

580 Experimental Microbiology. 4 cr. U/G. Modern experimental approaches to study of microbial physiology and genetics. 2 hrs lec/6 hrs lab. |Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 383(P).

596 Neuropharmacology. 3 cr. U/G. Cellular and molecular mechanisms of drug action on the nervous system. Topic include drug affects on neurotransmitters, receptors, cell signaling, and neurological disease/disorders. |Cell & Molec Bio; Microbio. Prereq: jr st; BioSci/Psych 354(P) or 355(P) or Psych 654(P) or cons instr.

597 RNA Structure, Function, and Metabolism. 3 cr. U/G. Structural and functional complexity of RNA. RNA as genetic material, enzymes and regulators; micro RNAs as potential therapeutics. |Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 325(P) or cons instr.

599 Special Topics in Biological Sciences: (Subtitled). 1-3 cr. U/G. In-depth examination of important subjects in one or more areas of the biological sciences. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

611 Seminar on Recent Advances in Limnology and Oceanography: (Subtitled). 2 cr. U/G. Lectures and discussion of current issues in limnology and oceanography; focus on a specific issue or research topic. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st; Bio Sci 512(P) or cons instr.

670 Senior Seminar in Biological Sciences. 1 cr. U. Examination of biological literature and preparation, presentation, and discussion of oral reports by individual students. |Prereq: sr st; Bio Sci lab course numbered 300-349; declared Bio Sci major.

671 Undergraduate Seminar in Microbiology. 1 cr. U. Examination of microbiological literature; preparation, presentation, and discussion of oral reports by individual students. |Prereq: sr st; Bio Sci 383(P).

672 Undergraduate Seminar in Cell and Molecular Biology. 1 cr. U. Examination of cell and molecular biology literature; preparation, presentation, and discussion of oral reports by individual students. |Prereq: sr st; Bio Sci 315(P) & 316(P).

695 Independent Study in Freshwater Sciences for Biological Sciences Students. 1-3 cr. U. Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist

from the School of Freshwater Science. Bio Sci 695 & FrshWtr 695 are jointly offered; w/same subject, they count as repeats of one another. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course. Prereq: jr st; Bio Sci 325(P); one of Bio Sci 310(P), 315(P)/316(P), or 383(P); 2.500 GPA; writ cons instr, dept chair, &

697 Independent Study in Cell and Molecular Biology. (Subtitled). 1-3 cr. U. Independent and original research conducted under the direction of a cell/molecular biology faculty or staff member. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course. Prereq: jr st; Bio Sci 315(P) & 316(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

698 Independent Study in Microbiology. (Subtitled). 1-3 cr. U. Introduction to research. Independent and original study conducted under the direction of a faculty or staff member. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course. Prereq: jr st; Bio Sci 383(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

699 Independent Study. (Subtitled). 1-3 cr. U. Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member. Requires submission of a formal study proposal. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course. Prereq: jr st; Bio Sci 325(260)(P); Bio Sci 310(P) or Bio Sci 315(P) & 316(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

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BUS ADM Business Administration

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100 Introduction to Business. 3 cr. U. Introduction to the nature and functions of business, the culture of the business world and business education, and the skills to be successful in both.|Prereq: not open for cr or regis to Business jr, pre-Business sr, or Business sr.

199 Entrepreneurship Independent Study. 1-3 cr. U. Independent work related to entrepreneurship.|May be retaken once for cr. Prereq: cons of Lubar School entrepreneurship instr.

200 Business and Society. 3 cr. U. Integrated understanding of sources of competitive/strategic advantage derived from corporate citizenship in the public policy, social, economics, and ecological environments.|Counts as repeat of Bus Adm 295 w/same topic. Prereq: soph st.

201 Introduction to Financial Accounting. 4 cr. U. Introduction to accounting and financial reporting concepts for business students. Emphasizes use of financial statements by non-accountants. Basics of accounting and reporting methods.|Counts as repeat of Bus Adm 207. Prereq: soph st or cons instr.

207 Business Scholars: Introduction to Financial Accounting. 4 cr. U. Introduces financial accounting concepts and investigates current financial reporting issues. Develops ability to prepare financial statements and to understand and analyze annual reports of real-world companies.|Not open for cr to those w/cr in Bus Adm 201. Prereq: soph st; Admis to Business Scholars Prog.

210 Introduction to Management Statistics. 4 cr. U. Introduces statistical principles and techniques necessary for management applications. Regression is presented to convey statistical thinking, modeling and analysis.|Counts as repeat of Bus Adm 211. Prereq: soph st; Math 211(C) or 231(C).

211 Business Scholars: Introduction to Management Statistics. 4 cr. U. Data presentation & statistical inference methods, probability concepts, discrete & continuous probability models, categorical data & regression methodologies, computer implementation, communication of statistical results, & business applications.|Not open for cr to those w/cr in Bus Adm 210. Prereq: soph st; admis to Business Scholars Prog; Math 211(P) or 231(P).

230 Introduction to Information Technology Management. 3 cr. U. Information technology management concepts; their role in business; management of formal and informal information systems development; business problem solving using microcomputer tools.|Counts as repeat of Bus Adm 231. Prereq: none.

231 Business Scholars: Introduction to Information Technology Management. 3 cr. U. Fundamental concepts and application of information technology to support the conduct and management of business activities. Lab tools include common applications software for data gathering, analysis, and presentation. |Not open for cr to those w/cr in Bus Adm 230. Prereq: admis to Business Scholars Prog or dept cons.

292 Introduction to Entrepreneurship and Small Business Formation. 3 cr. U. Explore elements necessary for entrepreneurship to flourish. Larger perspectives of the character and mental set of entrepreneurs and effect on the success of the business. |Counts as repeat of Bus Adm 295 with similar topic. Prereq: soph st.

295 Management Seminar: (Subtitled). 1-3 cr. U. Analysis of current topics and issues related to specific management areas of business. Specific topics and additional prerequisites may appear in the Schedule of Classes whenever the course is offered. |May be retaken w/chg in topic to max of 6 cr. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

298 Study Abroad: Business Topics: (Subtitled). 3 cr. U. Immersion (including instruction at an international university) in the economic, cultural, and business practices of selected countries. |May be retaken w/chg in topic to max of 6 cr. Prereq: soph st; acceptance in Study Abroad Prog.

300 Career and Professional Development: (Subtitled). 1 cr. U. Skills necessary to enter the job market. Includes professional correspondence, resume writing, interviewing and networking skills, and professional etiquette. |May not be retaken for cr. Prereq: soph st; Bus Adm 301(C) or 335(C) or 330(C) or 350(C) or 360(C) or 370(C).

301 Intermediate Accounting. 4 cr. U. Understanding the economic impact of business transactions and serving the information needs of statement users. Use of accounting principles to guide financial reporting and disclosure. |Prereq: soph st; Math 211(P); Bus Adm 230(P) or 231(P); a grade of 'B' or better in Bus Adm 201(P) or 207(P) within three years of enrollment; 3.00 cum gpa.

302 Managerial Accounting. 3 cr. U. The analysis, interpretation and use of accounting data for effective managerial planning, control, and decision making. |Not open for credit to Accounting majors. Prereq: soph st; Bus Adm 201(P).

305 Personal Investing and Financial Planning. 3 cr. U. Introduction to investing for individuals with emphasis on the personal planning process, issues, and strategies. |Not open for credit to Accounting majors who are concurrently enrolled or have completed Bus Adm 301. Prereq: soph st.

330 Organizations. 3 cr. U. An introduction to human behavior in organizations, organizational structures and processes, and interactions between organizations and their environments. Students will examine various theories and research findings on selected topics. |Counts as repeat of Bus Adm 331. Prereq: jr st.

331 Business Scholars: Organizations. 3 cr. U. Behavioral theories and management principles for understanding behavior in organizations; individual and organizational processes, and their interaction. Includes current and classic research, and application. |Not open for cr to those w/cr in Bus Adm 330. Prereq: jr st; admis to Business Scholars Prog.

335 Visual System Development. 3 cr. U. Visual-oriented techniques for business applications development; visual-oriented design and development methodologies; use of event driven and graphical controls; implementation with an appropriate language. |Prereq: soph st; a grade of 'C' or better in Bus Adm 230(P) or 231(P).

336 Enterprise Systems and Data Analytics. 3 cr. U. Introduction to business processes and ERP, utilizing ERP to run business simulation game and analysis of results utilizing business analytics. |Prereq: soph st; a grade of 'C' or better in Bus Adm 230(P) or 231(P).

350 Principles of Finance. 3 cr. U. Fundamentals of financial management, asset/liability valuations, risk and return,

investment analysis, sources and uses of funds, cost of capital, and cash management. |Counts as repeat of Bus Adm 351. Not open for cr to those w/cr in Bus Adm 450. Prereq: soph st; Econ 103(P) & 104(P); Bus Adm 201(P) or 207(P); Bus Adm 210(P) or 211(P).

351 Business Scholars: Principles of Finance. 3 cr. U. Fundamentals of financial management, analysis of financial statements, risk and return, debt/equity valuations, cost of capital, capital budgeting, capital structure, and dividend policies. |Not open for cr to those w/cr in Bus Adm 350. Prereq: soph st; admis to Business Scholars Prog; Econ 103(P) & 104(P); Bus Adm 207(P) & 211(C).

360 Principles of Marketing. 3 cr. U. The marketing system is analyzed as the process in our socioeconomic system for anticipating and satisfying consumer needs, adjusting to demand, and selling and procuring products and services. Competition, pricing, product line, distribution systems, promotion, and planning are discussed. |Counts as repeat of Bus Adm 361. Prereq: jr st; Econ 104(P).

361 Business Scholars: Principles of Marketing. 3 cr. U. Marketing theory and tactics in context of current external marketing environment. Discussion of current marketing issues, failures, and successes along with industry and company strategic differences. Analytical tools used for team project. |Not open for cr to those w/cr in Bus Adm 360. Prereq: jr st; admis to Business Scholars Prog; Econ 104(P).

370 Introduction to Supply Chain Management. 3 cr. U. Broad survey of the foundational concepts and principles of managing supply chain operations. Topic areas include customer management, purchasing, logistics, project management, demand planning. |Counts as repeat of Bus Adm 371. Prereq: soph st; Bus Adm 210(C) or 211(C).

371 Business Scholars: Introduction to Supply Chain Management. 3 cr. U. Broad survey of foundational concepts and principles of managing supply chain operations. Topics include customer management, purchasing, logistics, project management, demand planning, quantitative and computer applications. |Not open for cr to those w/cr in Bus Adm 370. Prereq: soph st; admis to Business Scholars Prog; Bus Adm 211(P).

380 Introduction to Real Estate Markets. 3 cr. U. The course focuses on real estate investment decisions as they are made within the framework of institutional controls consisting of social, political, and economic forces. |Prereq: jr st; Econ 104(P).

389 Real Estate Internship. 3 cr. U. A faculty-supervised new work experience in the real estate area which covers a minimum of 150 hours during the semester. |Counts as repeat of Bus Adm 489. Credit/no credit only. Prereq: jr st; Bus Adm 481(P); writ cons instr.

391 Business Law I. 3 cr. U. The court system, tort law, agency and employment law; contract law and sales transactions; professional liability; and legal ramifications of selecting appropriate business organization. |Counts as repeat of Bus Adm 390. Prereq: jr st.

393 Business Ethics & Social Responsibility. 3 cr. U. Ethical dimensions of economy, management decision-making, and corporate social responsibility. Ethical framework for assessment of business practices. Includes case discussions. |Counts as repeat of Bus Adm 295 with similar topic. Prereq: soph st.

394 Human Resources Management Internship. 3 cr. U. A faculty-supervised new work experience in the human resources management area which covers a minimum of 150 hours during the semester. |Credit/no credit only. Prereq: jr st & admis to HRM major; completion of at least one 400-level course in HRM major; writ cons instr.

395 Special Topics in Business: (Subtitled). 1-3 cr. U. Current topics and issues related to specific management areas of business. Specific topics and additional prerequisites announced in Schedule of Classes whenever the course is offered. |May be retaken w/chg in topic to max of 9 cr. Counts as repeat of Bus Adm 295 or 495 with same topic. Prereq: jr st.

396 Finance Internship. 3 cr. U. A faculty-supervised new work experience in the finance area which covers a

minimum of 150 hours during the semester.|Credit/no credit only. Prereq: jr st & admis to finance major; completion of at least one 400- or 500-level course in finance major; writ cons instr.

397 Marketing Internship. 3 cr. U. A faculty-supervised new work experience in the marketing area which covers a minimum of 150 hours during the semester.|Credit/no credit only. Prereq: jr st & admis to marketing major; completion of at least one 400-level course in marketing major; writ cons instr.

398 Supply Chain & Operations Management Internship. 3 cr. U. A faculty-supervised new work experience in the SCOM area which covers a minimum of 150 hours during the semester.|Credit/no credit only. Prereq: jr st & admis to SCOM major; completion of at least one 400- or 500-level course in SCOM major; writ cons instr.

400 Accounting Professional Internship. 3 cr. U. A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/public accounting environment.|Prior approval of intern director is required. Credit/no credit only. Prereq: sr st & admis to accounting major; Bus Adm 300(P); Bus Adm 301(P) and one 400-level accounting course; writ cons instr.

402 Advanced Financial Accounting. 3 cr. U. Study of advanced financial accounting issues such as interim reporting, leases, specialized revenue recognition, tax allocation, dilutive securities, derivatives, and financial troubled entities.|Prereq: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P).

403 Consolidations and Governmental Accounting. 3 cr. U. Understand and apply concepts related to accounting for consolidations and for governmental and not-for-profit accounting.|Prereq: jr st & admis to Bus Adm major; a grade of B or better in Bus Adm 301(P); Bus Adm 402(C).

404 Cost Management. 3 cr. U. Design, implementation, and use of optimal accounting systems for product and service costing, internal and external financial reporting, managerial decision support, and organizational control.|Prereq: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P).

405 Income Tax Accounting I. 3 cr. U. Introduction to tax issues inherent in business and financial transactions, with an emphasis on the federal individual and corporate income tax.|Prereq: jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 301(P); or grad st & Bus Adm 721(C).

406 Income Tax Accounting II. 3 cr. U/G. Application of framework developed in Income Tax Accounting I (Bus Adm 405) to more thoroughly analyze the taxation of business entities.|Prereq: jr st & admis to Bus Adm major; Bus Adm 405(P).

408 Accounting Information Systems. 3 cr. U/G. Introduction to accounting information systems and related technology, principles of accounting systems design, internal controls and coverage of commercial accounting software packages.|Prereq: jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 301(P); or grad st & Bus Adm 721(P).

409 Auditing: Procedures and Applications. 3 cr. U. An introduction to the audit process from an internal and external perspective with an emphasis on practical applications and technological innovations.|Prereq: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P); Bus Adm 402(P) & 408(P).

410 Accountants' Ethical Responsibilities. 1 cr. U. Study of ethical and societal responsibilities and constraints that define and affect the practice of accountancy. Includes selected readings, guest speakers, and cases.|Prereq: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P); Bus Adm 409(C).

424 US Institutions Shaping Accounting & Auditing Standards. 3 cr. U. U.S. accounting and auditing practices and the institutions that shape these practices, includes a visit to Washington D.C. regulatory agencies.|Prereq: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P); cons of instr.

432 Object-Oriented Systems Development. 3 cr. U. Object-oriented concepts and use in management applications;

object-oriented design and development methodologies; managing programs and structures; implementation with an appropriate language.|Prereq: jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 335(P).

433 Information Technology Project Management. 3 cr. U. In-depth exposure to key tools, techniques, practices, and knowledge areas of IT project management. Microsoft 2003 used to support. Number of team-based projects involved.|Prereq: jr st & admis to Bus Adm major; Bus Adm 436(P).

434 Data Base Management Systems. 3 cr. U. Database concepts; data modeling; SQL; fourth generation languages; data resource management; client/server databases; implementation using commercial DBMS products.|Prereq: jr st & admis to Bus Adm major; grade of 'C' or better in Bus Adm 335(P).

436 Systems Analysis and Design. 3 cr. U. Systems development methodologies; systems modeling, requirements specification, structured design, and systems implementation; use of automated development tools.|Prereq: jr st & admis to Bus Adm major; grade of 'C' or better in Bus Adm 335(P).

438 Information Technology Management Topics: (Subtitled). 3 cr. U. Contemporary topics for IT practitioners. Typical offerings include distributed information systems, management of IT, decision support systems, end-user computing, multimedia systems. Additional prerequisites announced in Schedule of Classes each time course is offered.|May be retaken w/chg in topic to max of 6 cr. Prereq: jr st & admis to Bus Adm major; Grade 'C' or better in Bus Adm 335(P); or cons instr.

439 Information Technology Management Professional Internship. 3 cr. U. A defined FT one semester work period, potentially leading to FT employment in a corporate/governmental/management consulting environment.|Credit/no credit only. Prereq: jr st & admis to ITM major; Bus Adm 300(P); one 400- or 500-level ITM course; writ cons instr.

440 Compensation Management. 3 cr. U. Ways organizations use wage and salary management to attract, retain, and motivate employees. Review of traditional and innovative compensation methods for administering pay.|Counts as repeat of Bus Adm 443 with similar title. Prereq: jr st, admis to Bus Adm major, Bus Adm 444(P) or grad st & Bus Adm 738(P).

441 Diversity in Organizations. 3 cr. U/G. Conceptual and experiential understanding of cultural values and practices among diverse groups in organizations. Addresses institutional and personal discrimination, stereotyping and prejudice.|Counts as repeat of Bus Adm 443 with similar title. Prereq: jr st, admis to Bus Adm major, & Bus Adm 330(C); or grad st.

442 Industrial Psychology. 3 cr. U/G. Application of psychological principles to industrial problems.|Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); & Psych 101(P).

443 Special Topics in Human Resources Management: (Subtitled). 3 cr. U/G. Selected topics in human resources management. Specific topics will appear in the Schedule of Classes whenever the course is offered.|May be retaken w/chg in topic to max of 9 cr. Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); or grad st.

444 Human Resources Management. 3 cr. U. An examination of the personnel function of the enterprise as an activity concerning all managers within the firm. General topics include the personnel function, maximizing human potential, supervision, and wage and salary administration.|Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P).

445 Training & Development in Organizations. 3 cr. U/G. Development and evaluation of training and career development programs in organizations. Skills-based approach to understanding needs assessments, learning principles, training development and evaluation.|Counts as repeat of Bus Adm 443 with similar title. Not open to students w/cr in Commun 327(ER). Prereq: jr st, admis to Bus Adm major, & Bus Adm 444(P); or grad st.

447 Entrepreneurship. 3 cr. U. Study of creation, growth/or acquisition of business through entrepreneurial efforts. Nature of entrepreneurship process and organization of growth oriented companies. Topics include methods of financing, venture capital, leveraged buy-outs and acquisitions.|Prereq: jr st; Bus Adm 350(P) or writ cons instr.

448 Staffing Human Resources. 3 cr. U. Planning, recruiting, selection, and hiring functions in organizations within the context of its legal environment. Includes application of spreadsheet and data analysis. |Counts as repeat of Bus Adm 443 with similar title. Prereq: jr st, admis to Bus Adm major; & Bus Adm 444(P); or grad st & Bus Adm 738(P).

449 Human Resources Management Professional Internship. 3 cr. U. A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment. |Credit/no credit only. Prereq: sr st & admis to HRM major; Bus Adm 300(P) & completion of at least one 400-level course in the HRM major; writ cons instr.

450 Intermediate Finance. 3 cr. U. Theories of valuation, corporate governance, and capital structure. Other topics explored such as dividend policy, financing methods, corporate and financial restructurings, and global financial management. |Prereq: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).

451 Investment Finance. 3 cr. U. A study of the financial system and institutions and the primary forces, which affect this system within which firms operate. Emphasis is on the instruments and interactions in the money and capital markets, and on analysis of firms for purposes and valuation of bonds and stocks for portfolio management. |Prereq: jr st & admis to Bus Adm major; Bus Adm 450(C).

452 Applied Portfolio Management. 3 cr. U. Study institutional setting, legal framework, portfolio strategies, and innovations in investment markets. Explore securities valuation, risk management, behavioral study, and prospects of market developments. |Prereq: jr st; admis to Bus Adm major; Bus Adm 451(P).

453 Corporate Finance Seminar. 3 cr. U. Integration of financial operations with other operations of a business unit, including working capital management, financial planning and financial control. |Prereq: jr st & admis to Bus Adm major; Bus Adm 450(P).

454 Analysis of Options and Futures. 3 cr. U. Valuate interest rate, equity, and stock index futures and options. Develop strategies using these instruments in hedging interest rate and equity portfolio risk. |Prereq: jr st & admis to Bus Adm major; Bus Adm 451(P).

455 Financial Institutions. 3 cr. U. Financial intermediation by banks and other financial institutions. Financial instruments and the markets where they trade. Term structure of interest rates and monetary issues. |Prereq: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).

456 International Financial Management. 3 cr. U. Introduction to international financial markets, exchange rate determination theory, concepts/measurement of foreign risk exposure, financial instruments to hedge exchange risk, and financing multinational enterprises. |Prereq: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).

457 Financial Modeling. 3 cr. U. Development and application of computer-based financial models. Models from corporate finance and investments use Microsoft Excel and Visual Basic for Applications (VBA). |Prereq: jr st & admis to Bus Adm major; Bus Adm 450(P) & 451(P).

458 Venture Finance. 3 cr. U. Corporate financial perspectives. Key institutional features of venture finance. Assess financial need, value of and claims on new ventures. Analyze contracts between entrepreneurs and outside vendors. |Prereq: jr st & admis to Bus Adm major; Bus Adm 450(P).

459 Finance Professional Internship. 3 cr. U. A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment. |Credit/no credit only. Prereq: sr st & admis to finance major; Bus Adm 300(P) & completion of at least one 400- or 500-level course in finance major; writ cons instr.

460 Retail Management. 3 cr. U. Principles of retail management including merchandising, product design and development, sales, store management, distribution and inventory management, public relations and advertising. |Counts as repeat of Bus Adm 467 with similar topic. Prereq: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

461 Consumer Behavior. 3 cr. U. Interdisciplinary approach to study of buying behavior of consumers, with emphasis on implications for marketing of theory and findings from the behavioral sciences. |Prereq: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

462 Marketing Research. 3 cr. U. Research process as an aid to decision-making in marketing management. Attention is given to planning research and the gathering, analysis, and interpretation of information. |Prereq: jr st & admis to Bus Adm major; Bus Adm 210(P) or 211(P); & 360(P) or 361(P).

463 Marketing Management. 3 cr. U. Development and implementation of marketing plans. Strategic decision-making and organizational issues pertinent to target markets, advertising, personal selling, channels, pricing, and product development. |Prereq: jr st & admis to Bus Adm major; Bus Adm 461(P) & 462(P).

464 Management of Promotion. 3 cr. U. Theory and concepts in developing and implementing communications strategies. Analysis of psychological, social and economic variables affecting promotion decisions. |Prereq: jr st & admis to Bus Adm major; Bus Adm 461(P).

465 International Marketing. 3 cr. U. Focus is on the environment and on the modifications of marketing thinking and practices, occasioned by differences in economic, social and cultural settings of countries. |Prereq: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

466 Business to Business Sales and Marketing. 3 cr. U. Development, pricing, promotion and distribution of business productions and services targeted at organizational buyers. Special focus on business sales processes and effective personal selling strategies. |Prereq: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

467 Marketing Seminar: (Subtitled). 3 cr. U. In-depth focus on specialized topics in marketing such as business-to-business sales and marketing, database and interactive marketing, and international marketing research and strategies. |May be retaken w/chg in topic to max of 9 cr. Prereq: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

468 Internet Marketing. 3 cr. U. Introduction to the principles of internet marketing, types of products that can be marketed online, communication and pricing strategies, customization, channel conflict resolution. Hands-on project required. |Prereq: jr st & admis to Bus Adm major; Bus Adm 461(P) or 462(P).

469 Marketing Professional Internship. 3 cr. U. A defined FT work period, minimum 10 weeks, potentially leading to FT employment in corporate/governmental/management consulting environment. |Credit/no credit only. Prereq: sr st & admis to marketing major; Bus Adm 300(P) & completion of at least one 400-level course in the marketing major; writ cons instr.

472 Special Topics in Supply Chain and Operations Management: (Subtitled). 3 cr. U. Selected contemporary topics and issues confronting supply chain and operations managers. |May be retaken w/chg in topic to max of 9 cr. Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

475 Operations Planning and Control. 3 cr. U. Detailed focus on planning and controlling operations of a service or manufacturing operation. Topics include requirements planning and scheduling. |Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

476 Logistics and Transportation Management. 3 cr. U. Logistics and transportation themes including warehousing, third party logistics. |Counts as repeat of Bus Adm 472 with similar topic. Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

477 Purchasing and Supply Management. 3 cr. U. Domestic and global aspects of the purchasing function in an organization.|Counts as repeat of Bus Adm 472 with similar topic. Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

478 Supply Chain Analytics. 3 cr. U. Topics include linear and nonlinear optimization, network modeling, decision making under uncertainty, time series forecasting, and simulation modeling.|Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

479 Supply Chain & Operations Management Professional Internship. 3 cr. U. Defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.|Cr/no cr only. Prereq: sr st & admis to Bus Adm major; Bus Adm 300(P) and completion of at least one 400- or 500-level SCOM course; writ cons instr.

481 Real Estate Finance. 3 cr. U/G. Mechanism of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of government agencies; real estate investment analysis.|Prereq: jr st & admis to Bus Adm major; Bus Adm 380(P).

482 Valuation of Real Estate. 3 cr. U/G. Economic theories of value applied to real estate; valuation as a guide to business decisions; real estate market which affects value; valuation methods, analysis of evidence of value; appraising residential and income properties.|Prereq: jr st & admis to Bus Adm major; Bus Adm 380(P).

483 Property Development and Management. 3 cr. U/G. Analysis of real estate development; consideration of site selections, market analysis, financing, design, and construction in connection with subdividing residential community development and shopping centers.|Prereq: jr st & admis to Bus Adm major; Bus Adm 481(P) or grad st.

484 Real Estate Law. 3 cr. U. Advanced application of business law concepts related to real estate transactions and developments; landlord/tenant law; analysis of legal concerns unique to real estate industry.|Prereq: jr st & admis to Bus Adm major; Bus Adm 391(P).

485 Environmental Issues in Real Estate. 3 cr. U. Survey course dealing with the impact of governmental environmental regulations on lender and developer liability. Topics include Phase 1 reporting, legal considerations, remediation, and wetland impacts.|Prereq: jr st & admis to Bus Adm major; Bus Adm 380(P).

490 Entrepreneur Internship. 3 cr. U. A defined work period in an entrepreneurial capacity in a corporate, governmental, or management consulting environment.|Credit/no credit only. Prereq: jr st & admis to Bus Adm major; Bus Adm 447(P) or completion of at least one 400-level course in student's major; writ cons instr instr.

491 Legal Issues for Entrepreneurs. 3 cr. U. Legal issues confronting entrepreneurs including the areas of ethics, forms of business organization, sales contracts, employment, property and business succession.|Not open for credit to Business Scholars who completed Bus Adm 493 with similar topic. Not open for credit to Accounting majors. Prereq: jr st & admis to Bus Adm major; Bus Adm 391(P).

492 Business Modeling of New Ventures. 3 cr. U. Key elements in developing an effective business model; new venture ideas and strategies; the owner manager; management succession.|Prereq: jr st & admis to Bus Adm major; Bus Adm 292(P) or Bus Adm 447(P).

493 Business Scholars: Seminar in Business: (Subtitled). 3 cr. U. Current topics and issues in contemporary business theory and management practice, focusing on in-depth study, critical analysis, research and application across functional areas. Specific topics and additional prerequisites announced in Timetable whenever course is offered.|May be retaken w/chg in topic to a 9 cr max. Prereq: jr st; admis to Business Scholars Prog.

494 International Business Internship. 3 cr. U. A supervised international management-related and cross-cultural experience with a for-profit or non-profit organization outside the U.S. Project and organizational evaluation required.

Credit/no credit only.|Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P)or 331(P), 301(P) or 350(P) or 351(P), and 360(P) or 361(P); writ cons instr.

495 Special Topics in Business: (Subtitled). 1-3 cr. U. Current topics and issues related to specific management areas of business. Specific topics and additional prerequisites announced in Schedule of Classes whenever course is offered.|May be retaken w/chg in topic to max of 9 cr. Prereq: jr st.

496 International Business. 3 cr. U. The study of major factors specific to the conduct of business in international markets; focuses on the integration of marketing, finance, production, and other management functions into the world business, cultural, social, and political environments.|Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); Bus Adm 301(P) or 350(P) or 351(P); Bus Adm 360(P) or 361(P).

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Study Abroad: Business Topics: (Subtitled). 3 cr. U. Immersion (including instruction at an international university) in the economic, cultural, and business practices of selected countries.|May be retaken w/chg in topic to max of 6 cr. Prereq: jr st; acceptance in Study Abroad Prog.

499 Research in Industry. 1-3 cr. U. Solution of business problems as jointly developed by the student, the assigned faculty, and the cooperating company. Work will consist of problem solving through the use of university resources and library research.|May be retaken for cr only with prior cons Lubar School of Business. Prereq: jr st; cons instr.

530 Introduction to eBusiness. 3 cr. U. Opportunities, technical platforms, and limitations of eBusiness over the Internet. Various eBusiness models and implementation technologies will be discussed.|Prereq: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 335(P).

531 Developing Web Applications Using Web Services. 3 cr. U. Developing n-tier systems with Web Services and the Internet, using visual languages such as Visual Basic Script and C# and the SOAP and XML protocols.|Prereq: jr st & admis to Bus Adm major; Bus Adm 432(P).

532 Web Development for Open Business Systems. 3 cr. U. Business applications and web development based on platform-independent objective-oriented technologies and database connectivity in creating information systems for eBusiness activities.|Prereq: jr st & admis to Bus Adm major; Bus Adm 432(P).

533 Information Technology Infrastructure for Business. 3 cr. U. Familiarize students with new infrastructure developments in telecommunications and network technologies, as well as their managerial and business applications.|Prereq: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 335(P).

534 Advanced Information Technology Project Management. 3 cr. U. Student-teams will compete for and work on a real-world IT project and present the completed project to the company's stakeholders.|Credit/no credit only. Prereq: jr st & admis to Bus Adm major; Bus Adm 433(P).

535 Global Information Technology Management. 3 cr. U. Management issues surrounding the effective deployment of information systems in different regions of the world.|Prereq: jr st & admis to Bus Adm Major; a grade of C or better in Bus Adm 230(P) or 231(P).

536 Business Intelligence. 3 cr. U. Introduction to business intelligence, with a focus on data warehousing and data mining. This course uses SAP Business Information Warehouse software.|Prereq: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 335(P) or 336(P).

537 Enterprise Systems Concepts and Issues. 3 cr. U. Advanced concepts in ERP and integrated nature of business processes, and all major components of SAP R/3 and NetWeaver tools.|Prereq: jr st & admis to Bus Adm major; grade

of C or better in Bus Adm 335(P) or 336(P).

538 Business Process Integration. 3 cr. U. Business process integration configuration of a hypothetical company using SAP R/3. Create organizational structure, master data and business rules for buying and selling products and tracking processes. |Prereq: jr st & admis to Bus Adm major; Bus Adm 537(P).

539 Web Application Server Development. 3 cr. U. ERP Web Application Servers; Web Dynpro for Java to develop Web Applications, Web services and portal content which exposes data from SAP Business Suite. |Prereq: jr st & admis to Bus Adm major; grade of C or better in Bus Adm 335(P) or 336(P).

540 TERP 10 Certification. 3 cr. U. This course is designed to prepare students for taking the TERP10 Certification Exam - the global baseline certification standard for SAP University Alliances Program. |Prereq: jr st & admis to Bus Adm major; Bus Adm 536(P), 537(P), and 538(P).

541 Cross-Cultural Management. 3 cr. U. Business cultures around the world; the impact of cultural differences in international management and negotiations. |Bus Adm 541 and Global 541 are jointly offered; they count as repeats of one another. Prereq: jr st & admis to Bus Adm major or declared Global Studies program; Bus Adm 330(P).

542 Introduction to Technology Entrepreneurship. 3 cr. U. Introductory concepts related to technology entrepreneurship including opportunity identification, analysis and new venture planning. Prepares students to recognize and pursue viable technology-based entrepreneurial opportunities. |Counts as repeat of Bus Adm 495 or MechEng 490 with same topic. Jointly offered with & counts as repeat of MechEng 542. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.

543 Introduction to Technology Management and Innovation. 3 cr. U. Introductory concepts related to technology management and technological innovation. Prepares students to evaluate and plan technology commercialization projects. |Counts as a repeat of Bus Adm 495 with same topic. Jointly offered with & counts as repeat of MechEng 543. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.

544 New Product Development. 3 cr. U/G. Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams. |Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as a repeat of MechEng 544. Prereq: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.

546 Global Innovation Management. 3 cr. U/G. Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects. |Counts as a repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of MechEng 546. Prereq: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st & admis to business or engineering program or admis to Tech Entrep Cert program.

548 Technology Venturing Project. 3 cr. U. A capstone course for students to demonstrate their knowledge and skills related to technology/product commercialization. Prepares students to lead their (or corporate) technology ventures. |Jointly offered with & counts as repeat of MechEng 548. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major; Bus Adm/Mech Eng 542(P).

551 International Investments. 3 cr. U. Introduce institutional arrangements, instruments, and innovations in global investments. Emphasize foreign currency return-risk analysis, risk management, and performance evaluation on international investment portfolios. |Prereq: jr st; admis to Bus Adm major; & Bus Adm 451(P).

552 Investment Management Practice I. 3 cr. U/G. Introduction to the real-time and historic data sets available in the David O. Nicholas Applied Finance Lab. Utilize Bloomberg, FactSet, and other analysis packages. |Prereq: jr st, admis to Investment Mgmt Cert program, Bus Adm 301(C) & 451(C); or grad st, admis to Investment Mgmt Cert program, Bus Adm 301(C) or 721(C); 771(C).

553 Investment Management Practice II. 3 cr. U/G. Students manage an investment portfolio utilizing the David O. Nicholas Applied Finance Lab. Topics include securities selection, portfolio hedging, behavioral finance, and financial market events. |Prereq: jr st, admis to Investment Mgmt Cert program & Bus Adm 552(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 552(P).

554 Investment Management Practice III. 3 cr. U/G. Students independently conduct special study to assist individual future professional development and gain maturity and confidence in real world investment management. |Prereq: jr st, admis to Investment Mgmt Cert program & Bus Adm 553(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 553(P).

571 Quality and Six Sigma Tools. 3 cr. U. Principles and techniques for managing and improving quality in manufacturing and service operations. Topics include lean principles, quality function deployment, FMEA, DOE, others. |Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

576 Enterprise Planning in the Supply Chain. 3 cr. U. Coverage of techniques for managing work processes within and across the supply chain. An integrated perspective is emphasized through hands-on experience with an enterprise software. |Prereq: jr st & admis to Bus Adm major; Bus Adm 475(P), 476(P) & 477(P).

577 Supply Chain Applications, Policy, & Strategy. 3 cr. U. Designed to develop a linkage between SCM and corporate strategy, a case study approach to build an integrated view of the SCM. Business game provides practical experience. |Counts as repeat of Bus Adm 472 with topics Supply Chain Strategy and Supply Chain Apps & Policy. Prereq: jr st & admis to Bus Adm major; Bus Adm 475(P), & 476(P) or 477(P).

599 Reading and Research-Business Administration. 1-3 cr. U. |May be retaken for cr only with prior approval of Lubar School of Business. Prereq: jr st; cons instr & Bus Adm.

600 Management Analysis. 3 cr. U. Administrative processes under conditions of uncertainty including integrating analysis of policy determination at the overall management level. Capstone course in business administration. |Prereq: sr st & admis to Bus Adm major; Bus Adm 301(P) or 302(P); Bus Adm 330(P) or 331(P); Bus Adm 350(P) or 351(P) or 450(C); & Bus Adm 360(P) or 361(P).

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100 (effective 09/04/2018) Chemical Science. 4 cr. U. Introductory course in general inorganic chemistry designed for the student with little or no previous science training. 3 hrs lec, 1 hr dis.|Not open for cr to students who have cr in Chem 102. Prereq: Math 105(C) or Math 108(C) or Math 116(C) or Level 30 on Math Placement Test.

100 Chemical Science. 4 cr. U. Introductory course in general inorganic chemistry designed for the student with little or no previous science training. 3 hrs lec, 1 hr dis.|Not open for cr to students who have cr in Chem 102. Prereq: a math placement score of 30 or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105(P) or 108(P).

101 Chemical Science. 4 cr. U. Introductory chemistry with an emphasis on organic chemistry and selected aspects of general chemistry. 3 hrs lec, 2 hrs lab, 1 hr dis.|Designed for students in nursing and related fields. Not open for cr to students who have cr in Chem 341 or 343; may not serve as prereq for Chem 341 or 343. Prereq: a score of 1 on the chem placement test, & a math placement score of 30 or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105 or 108; or a grade of C or better

101 (effective 09/04/2018) Chemical Science. 5 cr. U. Introductory chemistry with an emphasis on organic chemistry and selected aspects of general chemistry. 3 hrs lec, 2 hrs lab, 1 hr dis.|Designed for students in nursing and related fields. Not open for cr to students who have cr in Chem 341 or 343; may not serve as prereq for Chem 341 or 343. Prereq: a score of 1 on the chem placement test, & Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105 or 108; or a grade of C or bet

102 General Chemistry. 5 cr. U. Introductory college chemistry. Modern fundamental principles of chemistry, with emphasis on the chemistry of nonmetals. 3 hrs lec, 3 hrs lab, 1 hr dis.|Prereq: score of 1 on chem placement test, & Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105 or 108; or min grade C in Chem 100(P).

103 (effective 09/04/2018) Survey of Biochemistry. 5 cr. U. The nature of materials of biological systems. 3 hrs lec, 1 hr dis, 3 hrs lab.|Designed for students in nursing and related fields. Not open for cr to chem majors; may not serve as a prereq for Chem 341 or 343. Prereq: grade of C or better in Chem 101(P).

103 Survey of Biochemistry. 4 cr. U. The nature of materials of biological systems. 3 hrs lec, 1 hr dis, 3 hrs lab.|Designed for students in nursing and related fields. Not open for cr to chem majors; may not serve as a prereq for

Chem 341 or 343. Prereq: grade of C or better in Chem 101(P).

104 General Chemistry and Qualitative Analysis. 5 cr. U. Continuation of Chem 102. 3 hrs lec, 3 hrs lab, 1 hr dis. Prereq: grade C or better in Chem 102(P).

105 General Chemistry for Engineering. 5 cr. U. Modern principles of chemistry with emphasis on applications in engineering fields. Not open to those w/cr in Chem 104(ER). Not a prereq for Chem 221, 341, or 343. Prereq: score of 1 on chem placement test, Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105 or 108; or in grade C in Chem 100(P).

106 Chemistry in the World Around Us--Chemistry for the Non-Science Major. 3 cr. U. An introduction to chemistry with an emphasis on outlining how chemistry affects our everyday lives. 3 hrs lec, 2 hrs lab/dis. Intended for non-science majors and minors; does not carry cr toward chem or biochem majors or chem minor. Prereq: none.

185 Basic Chemistry for Teachers. 3 cr. U. Chemical models, atoms, and molecules; properties of elements; useful chemical reactions; application to elementary education classrooms. 2 hrs lec; 2 hrs lab/dis. Prereq: Math 176(P) or cons instr.

194 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

210 Introduction to Fermentation Chemistry. 3 cr. U. Concepts of chemistry in the context of fermentation. The ideas of mass balance, equilibrium, rate and catalysis are applicable to fermentation. Prereq: none.

221 Elementary Quantitative Analysis. 4 cr. U. Introduction to modern chemical analysis, including volumetric, gravimetric, electrochemical, and chromatographic methods. 2 hrs lec, 6 hrs lab. Prereq: a grade of C or better in Chem 104(P).

281 Dead Men Do Tell Tales: An Introduction to Forensic Science. 3 cr. U. A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated. Jointly offered with & counts as repeat of Anthro/BMS(C L Sci)/Crm Jst 281. Prereq: none.

285 Medicolegal Death Investigation. 3 cr. U. Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators. Jointly-offered with & counts as repeat of Anthro/BMS(C L Sci)/Crm Jst 285. Prereq: none.

289 Internship in Chemistry, Lower Division. 1-6 cr. U. Application of basic principles of chemistry in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in chem; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

311 Introduction to Inorganic Chemistry. 3 cr. U. Inorganic chemistry; solid state chemistry, coordination chemistry, main-group chemistry. Prereq: grade of C or better in Chem 104(P).

341 Introductory Survey of Organic Chemistry. 3 cr. U. Intended for students who expect to take only one semester of organic chemistry. Not open for cr to students who have credit in Chem 343. Prereq: grade of C or better in Chem

104(P); conc reg in Chem 342(R).

342 Introductory Organic Chemistry Laboratory. 2 cr. U. 6 hrs lab.|Prereq: a grade of C or better in Chem 104(P); conc reg in 341(R).

343 Organic Chemistry. 3 cr. U. For students who intend to take more than one semester of organic chemistry.|Not open for cr to students who have credit in Chem 341. Prereq: grade of C or better in Chem 104(P).

344 Organic Chemistry Laboratory. 2 cr. U. 6 hr lab.|Not open for cr to students who have credit in Chem 342. Prereq: grade C or better Chem 343(P); conc reg Chem 345(R).

345 Organic Chemistry. 3 cr. U. Continuation of Chem 343.|Prereq: grade of C or better in Chem 343(P); conc reg Chem 344(R).

381 Honors Seminar: (Subtitled). 3H cr. U. Discussion of aspects of the relationship of chemistry and society.|May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir; add'l prereq possible depending on specific topic.

399 Special Chemical Problems: (Subtitled). 1-4 cr. U. Directed study or research on topics selected by the instructor.|May be retaken to 7 cr max. Prereq: Chem 104(P); cons instr.

481 Criminalistics. 3 cr. U. Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.|Anthro 481, Chem 481, BMS(C L Sci) 481, & Crm Jst 481 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/C L Sci/Crm Jst 281(P); Crm Jst 480(P).

489 Internship in Chemistry, Upper Division. 1-6 cr. U. Application of advanced principles of chemistry in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Chem; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st.

501 Introduction to Biochemistry. 3 cr. U/G. The chemistry of biological systems.|Does not count toward graduate degree in chemistry. Prereq: jr st; grade of C or better in Chem 341(P) or 345(P).

502 Development of Modern Chemistry. 2 cr. U/G. Traces the development of chemistry from ancient to modern times.|Prereq: jr st; a grade of C or better in Chem 221(P) or 223(P), & Chem 341(P) or 343(P).

511 Inorganic Chemistry. 3 cr. U/G. Introduction to theoretical principles and descriptive chemistry of the elements.|Does not count toward graduate degree in Chemistry. Prereq: jr st & grade of C or better in Chem 562(P); or grad st.

524 Instrumental Analysis. 3 cr. U/G. Chemical equilibria, separations, and theory and practice of instrumental measurements.|Does not count toward a graduate degree in chemistry. Prereq: jr st; grade of C or better in Chem 221(P) or 223(P).

537 Industrial Microbiology and Biochemistry Laboratory. 2 cr. U/G. Experiments using industrial fermentation

approaches for isolation of biologically-relevant molecules, e.g., antibiotics; analysis of their function and activity using microbiological and biochemical techniques. |Bio Sci 537 & Chem 537 are jointly offered; they count as repeats of one another. Prereq: Bio Sci 383(P) & Chem 501(P).

541 Bioprocess Chemical Engineering. 3 cr. U. Technical aspects of biotechnology and fermentation based on reactor design and function. |Prereq: jr st; grade of C or better in Chem 501(P).

543 Bioproduct Regulatory Protocols Laboratory. 3 cr. U/G. Experiments in the production, purification, and characterization of biopharmaceuticals for the treatment of human disease in compliance with ICH and FDA guidelines. |Prereq: jr st; Chem/Bio Sci 537(P); Chem 541(P); Chem 501(P).

560 Biophysical Chemistry. 3 cr. U/G. General course designed for majors in fields other than chemistry. |Does not count toward a graduate degree in chemistry. Prereq: jr st; grade of C or better in Chem 104(P); Math 211(P) or equiv.

561 Physical Chemistry I. 3 cr. U/G. Primary focus on chemical thermodynamics. |Does not count toward a graduate degree in chemistry. Prereq: jr st; grades of C or better in Chem 104(P), Physics 210(P) & 215(P), & Math 233(P); ElecEng 234(R) or Math 234(R).

562 Physical Chemistry II. 3 cr. U/G. Continuation of Chem 561; course content is largely kinetics, statistical mechanics, and quantum chemistry. |Does not count toward a graduate degree in chemistry. Prereq: jr st; grade of C or better in Chem 561(P).

563 Physical Chemistry Laboratory. 1-2 cr. U/G. |Carries grad cr for students other than chem students. Prereq: jr st & grade of C or better in Chem 221(P) or 223(P) & Chem 561(P).

582 Advanced Chemistry Laboratory I. 2 cr. U. Modern advanced chemical synthesis techniques. |Prereq: grade of C or better in Chem 344(P).

584 Advanced Chemistry Laboratory II. 2 cr. U. Advanced laboratory for analysis and characterization of chemical compounds. |Prereq: grade of C or better in Chem 344(P), 524(P), & 563(P).

585 Internship in Forensic Toxicology. 1-3 cr. U. Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist. |Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

589 Internship in Death Investigation. 1-3 cr. U. Practical experience in death investigation under the supervision of a death investigator and forensic pathologist. |Anthro 589, Chem 589, BMS(C L Sci) 589, & Crm Jst 589 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci certif prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver.

594 Internship in Forensic Science. 1-3 cr. U. On-site shadowing of evidence analyst at State Crime Laboratory. |Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

599 Special Projects in Chemistry. 3-5 cr. U/G. Directed study or research on subjects selected by the instructor. For further information consult dept chair. |May be retaken to 7 cr max. Does not count toward a graduate degree in chemistry. Prereq: jr st; cons instr.

601 Biochemistry: Protein Structure and Function. 3 cr. U/G. Cellular synthesis of proteins, protein structure/function, enzyme mechanisms. |Prereq: jr st; grades of C or better in Chem 345(P), 501(P), & either 560(C) or 562(C).

602 Biochemistry: Cellular Processes. 3 cr. U/G. Biosynthesis and metabolism of nucleic acids, structure and replication of DNA, control of gene expression, signal transduction. | Prereq: jr st; grade of C or better in Chem 501(P) or cons instr.

603 Introduction to Biochemistry Laboratory. 2 cr. U/G. Experiments in biological preparations, colorimetry, chromatography, and radioisotope techniques. | Prereq: jr st; grades of C or better in Chem 221(P) or 223(P) & in Chem 501(P).

604 Biochemistry: Metabolism. 3 cr. U/G. Glycolysis, photosynthesis, biosynthesis, metabolism. | Prereq: jr st; grade of C or better in Chem 501(P) or cons instr.

611 Physical Inorganic Chemistry. 3 cr. U/G. Physical and theoretical aspects of inorganic chemistry (spectroscopy, crystallography, kinetic and theoretical methods) are discussed. | Prereq: Chem 511(P) or cons instr.

612 Transition Metal and Organometallic Chemistry. 3 cr. U/G. Advanced survey of elements, emphasizing transition elements and organometallic species. Main group organometallics and actinides and lanthanides briefly discussed. | Prereq: Chem 511(P) or cons instr.

613 Main Group Chemistry. 3 cr. U/G. Advanced survey of metallic and non-metallic main group elements. | Prereq: jr st & grade of C or better in Chem 511(P); or grad st.

614 Bio-Inorganic Chemistry. 3 cr. U/G. Inorganic chemistry for biological systems; metalloproteins; coordination chemistry in enzymes. | Prereq: jr st; grade of C or better in Chem 511(P).

628 Nuclear and Radiochemistry. 3 cr. U/G. Survey of modern nuclear and radiochemistry; emphasis on the interactions of radiation with matter and application in radiation detection and measurement. | Counts as repeat of Chem 726 w/same topic. Prereq: jr st.; grades of B or better in Chem 524(P), 561(P), 562(P), & 563(P) or equiv; cons instr for undergrads.

630 Computational Chemistry. 3 cr. U/G. Computer modeling techniques for molecular systems. | Prereq: jr st; grade of C or better in Chem 562(P) or cons instr.

640 Advanced Survey of Organic Chemistry. 3 cr. U/G. | Prereq: jr st; a grade of C or better in Chem 345(P).

647 Physical Methods of Organic Chemistry. 3 cr. U/G. Application of modern instrumental methods to the separation, analysis, and identification of organic compounds. | Prereq: jr st, a grade of C or better in Chem 345(P), 346(P), 524(P).

661 Intermediate Chemical Thermodynamics. 3 cr. U/G. Laws of thermodynamics equilibria between phases. Introductory statistical thermodynamics. Thermodynamic properties of gases, solids, and solutions. | Prereq: sr st, a grade of C or better in Chem 562(P).

662 Chemical Kinetics and Dynamics. 3 cr. U/G. Present understanding of reaction kinetics and dynamics. Topics range from experimental methods for kinetics measurements to microscopic theories of reaction rates. | Prereq: sr st; grade of C or better in Chem 562(P).

690 Scientist Career Transitions Seminar. 1 cr. U. Preparation of science undergraduates for transition to science-related employment internships. | Counts as repeat of Chem 489 with similar topic. Prereq: soph st; Chem 344(C) & 345(C) or equiv; 3.000 GPA in science courses; cons instr.

691 Senior Research. 1-4 cr. U. Introduction to chemical research. Independent and original study done under the direction of a staff member; communication of results. Recom for Chem majors. | Chem 691 & 692 may be retaken to combined 6 cr max. Prereq: sr st; cons instr.

692 Senior Thesis. 2-6 cr. U. Introduction to chemical research. Independent and original study done under the direction of a staff member. Recom for chem majors. |Chem 691 & 692 may be retaken to combined 6 cr max. Prereq: sr st; grade of C or better in English 102(P) or score at level 4 on EPT; cons instr.

697 Senior Seminar. 1 cr. U. |Prereq: sr st.

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CIV ENG Civil & Environmental Engineering

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150 Builders for Civilization and Environment. 3 cr. U. Explores the role of civil engineering in society through the use of case studies, including water and society, bridges, building and transportation. | Prereq: none.

201 Statics. 3 cr. U. Principles of mechanics force systems, equilibrium structures, distributed forces, centroids and friction. | Prereq: Math 232(P).

202 Dynamics. 3 cr. U. Kinematics and kinetics of particles and rigid bodies with applications of Newton's second law and the principles of work-energy and impulse momentum. | Prereq: Civ Eng 201(P), Math 233(C).

250 Engineering Surveying. 3 cr. U. Horizontal and vertical distance measurement, angles and direction, traverses, errors, control and construction surveys, coordinate systems, land records, and coordinate geometry. Office and field practice. | Prereq: soph st, Math 232(P).

280 Computer Based Engineering Analysis. 3 cr. U. Computer based methods for analysis of data and relationships in engineering practice. Data reliability, experimental design, statistical significance, database systems, curve fitting, interpretation of relationships. | Prereq: CompSci 132(P) or one sem H.S. programming; & Math 231(P) or 226(P).

303 Strength of Materials. 4 cr. U. Stress and strain, torsion, bending of beams, shearing stress in beams, combined stresses, principal stresses, deflections of beams, statically indeterminate members and columns. Lec & lab. | Prereq: Civ Eng 201(P) & Math 233(C).

311 Introduction to Energy, Environment and Sustainability. 3 cr. U. Energy system and resources, environmental system and resources, global climate change, life cycle assessment, green chemistry and materials, sustainable technologies. | Prereq: jr st.

335 Soil Mechanics. 3 cr. U. Fundamentals of soil mechanics; soil classification; seepage analysis; principle of effective stress; stress distribution; 1-D consolidation theory; shear strength ; laboratory experience. | Prereq: jr & admis to an Eng major or grad st; Civ Eng 303(P).

360 Introduction to Structural Analysis. 3 cr. U. Elementary structural analysis techniques; beams, trusses, statically determinate frames, influence lines; analysis of indeterminate structures by superposition and computer analysis. | Prereq: Civ Eng 303(P).

372 Introduction to Structural Design. 4 cr. U. Intro to design of reinforced concrete, steel, and wood structures; material properties; codes; design for flexure, shear and axial loads; connections. |Prereq: jr st; Civ Eng 303(P).

401 Intermediate Strength of Materials. 3 cr. U/G. Area moment, conjugate beam, deflection due to shear, bending of unsymmetrical beams, curved beams, shear flow, shear center, stresses in open sections, theories of failure, plastic stress-strain relations, plastic deformation, limit analysis, energy methods, laboratory investigation. |Prereq: jr st, Civ Eng 303(P).

411 Engineering Principles of Water Resources Design. 3 cr. U/G. Principles of hydraulics; steady and non-steady flow in closed conduits and open channels; hydraulic design of structures, surge tanks; hydraulic model studies. |Prereq: jr st & admis to an Eng major or grad st; MechEng 320(P).

412 Applied Hydrology. 3 cr. U/G. Applied hydrology with emphasis on analysis of rainfall, runoff and streamflow processes, hydrologic forecasting and simulation, urban hydrology, hydrologic design and modelling. |Prereq: jr st; Math 233(P) & MechEng 320(P).

413 Environmental Engineering. 3 cr. U/G. Water pollution and control; hazardous substances and risk assessment; water and wastewater treatment systems; air-pollution and emission control; solid wastes; design of treatment facilities. |Prereq: jr st & admis to an Eng major or grad st; MechEng 320(P).

431 Materials of Construction. 3 cr. U/G. Investigation covering engineering properties of metals, timber, concrete, masonry, plain and reinforced plastics, glues; thermal effects. |Prereq: jr st; Civ Eng 303(P).

456 Foundation Engineering. 3 cr. U/G. Site investigation; foundation bearing capacity and settlement; design of spread and combined footings; lateral earth pressures; retaining wall design; slope stability analysis; pile foundations. |Prereq: jr st; Civ Eng 335(P).

463 Introduction to Finite Elements. 3 cr. U/G. Generation and assembly of finite element matrices in one- and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow. |Not open to students with cr in MechEng 463, which is identical to Civ Eng 463. Prereq: jr st; ElecEng 234(P), Civ Eng 303(P), MechEng 320(C), 311(C) or 321(C).

466 Mechanics of Composite Materials. 3 cr. U/G. Basic concepts, materials, and characteristics of composites. Micromechanics and Macromechanics of Elastic Response. Failure, design and optimization of composite structures. |Civ Eng 466 & MechEng 466 are jointly offered; they count as repeats of one another. Prereq: jr st & Civ Eng 303(P)

469 Introduction to Biomechanical Engineering. 3 cr. U/G. Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine. |MechEng 469 & Civ Eng 469 are jointly offered and count as repeats of one another. Prereq: Civ Eng 202(P) & 303 (P); or cons instr.

480 (effective 09/04/2018) Software Applications for Civil Engineering. 3 cr. U. General knowledge and techniques in using computer software in civil engineering design/ Software packages include Autodesk Civil 3D and Revit Structure. |Prereq: jr st, Civ Eng 303.

490 Transportation Engineering. 3 cr. U/G. Technological and common elements of all modes of transportation; their effect on performance, demand, and outputs of a transportation system. Development of new transportation systems. |Prereq: jr st & admis to an Eng major; Civ Eng 280(P); or grad st.

492 Environmental Impact Assessment. 3 cr. U/G. Study and evaluation of the impacts of large scale projects on the quality of the environment with emphasis on the assessment of physical and community impacts. Impact statement preparation. |Prereq: sr st.

494 Principles of Civil Engineering Design. 1 cr. U. Project identification and planning for senior design project; proposals, project management and team procedures. Technical communications. Professional engineering responsibilities. Intended for first semester seniors.|Prereq: sr st in Civ Eng: Civ Eng 335(C), 372(C), 411(C), 413(C), & 490(C).

495 Senior Design. 3 cr. U. Team design project involving application of fundamental civil engineering concepts. Discussion of specifications, contracts and implementation. Written and oral presentations. Intended for second semester seniors.|Prereq: Civ Eng 335(P), 372(P), 411(P), 413(P), 490(P), 494(P) or cons instr.

499 Ad Hoc: (Subtitled). 1-12 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

502 Experimental Stress Analysis. 3 cr. U/G. Basic stress strain relations; demonstration of experimental methods of determining stresses and strains; use of mechanical strain, electric strain, and strain gages, optical photoelastic equipment, brittle lacquers, models.|Prereq: jr st & Civ Eng 303(P).

511 Water Supply and Sewerage. 3 cr. U/G. Resources of water supply quality and quantity requirements. Principles of hydraulic design of water supply and sewerage systems; pumping stations. Principles of sewage disposal. Problems of management involving hydrological, engineering, institutional, legal and economic aspects. Design project.|Prereq: jr st; Civ Eng 411(P).

521 Water Quality Assessment. 3 cr. U/G. Laboratory techniques for detecting and measuring physical, chemical and biological characteristics of water and wastewater. Water quality requirements. Design of sampling programs.|Prereq: sr st; Civ Eng 411(P).

555 Sustainable Construction Materials and Technologies. 3 cr. U/G. Sustainable construction materials and methodologies related to commercial construction, LEED/Green certifications, material selection.|Prereq: jr st.

560 Intermediate Structural Analysis. 3 cr. U/G. Topics in traditional analysis methods; indeterminate structures, load & load paths, moment distribution, approximate methods, elementary plate analysis.|Prereq: jr st; Civ Eng 360(P), 372(P).

571 Design of Concrete Structures. 3 cr. U/G. Topics in reinforced concrete design; indeterminate reinforced concrete beams and frames; length effect in columns; torsion; two way floor systems; yield line theory.|Prereq: jr st; Civ Eng 360(C), 372(P).

572 Design of Steel Structures. 3 cr. U/G. Topics in design of steel structures; tension, compression, and beam members; combined axial and bending; connections; frames; serviceability.|Prereq: jr st; Civ Eng 360(C), 372(P).

573 Design of Masonry Structures. 3 cr. U/G. Topics in design of masonry structures; materials, loads, design codes, reinforced & unreinforced axial & flexural members, composite & cavity walls, shear walls, seismic requirements.|Prereq: jr st; Civ Eng 360(C), 372(P).

574 Design of Prestressed Concrete Structures. 3 cr. U/G. Design of prestressed concrete structures; methods of prestressing; loss of prestress; design for flexure, shear, torsion; camber and deflections; continuity; connections; fire rating; circular prestressing.|Prereq: jr st; Civ Eng 360(C), 372(P).

579 Earthquake Engineering. 3 cr. U/G. Earthquake mechanics and effects, structural dynamics, seismic hazard analysis, design guidelines, design of steel and concrete buildings for earthquake loads.|Counts as repeat of Civ Eng 891 w/same subtitle. Prereq: sr st; Civ Eng 571(P) or 572(P); or cons instr; or grad st.

580 Engineering Analysis in Applied Mechanics. 3 cr. U/G. Engineering analysis of initial and boundary value

problems in applied mechanics. Application of various methods to investigate a variety of engineering situations. |Not open to students with cr in MechEng 580, which is identical to Civ Eng 580. Prereq: jr st; ElecEng 234(P).

590 Urban Transportation Planning. 3 cr. U/G. Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, factors underlying the choice of mode, traffic assignment, modeling and evaluation techniques. |Prereq: sr st.

592 Traffic Control. 3 cr. U/G. Control of transportation systems with emphasis on traffic engineering principles. Data collection, capacity analysis, traffic improvements, signalization, signs and markings, channelization, intersection, speeds and safety considerations. |Prereq: sr st.

594 Physical Planning and Municipal Engineering. 3 cr. U/G. Organization and structure of local government, zoning and planning, subdivision layout, street design, transit service, urban drainage, storm and sanitary sewer, water supply and other public works activities. |Prereq: sr st.

596 Transportation Facilities Design. 3 cr. U/G. Physical design of transportation facilities including geometric design and terminals for highway, rail, air and water transportation. Student project work will be required. |Prereq: jr st; Civ Eng 490(P).

598 Pavement Analysis and Design. 3 cr. U/G. Pavement types, design factors, traffic loading and volume, materials characterization, drainage design, flexible and rigid pavements design, stresses and deflections, overlay design, pavement rehabilitation. |Prereq: jr st & Civ Eng 335(P); or grad st.

610 Introduction to Water and Sewage Treatment. 3 cr. U/G. Characteristics of water and sewage. Principles of physical, chemical and biological processes for water and sewage treatment. Design project. |Prereq: sr st; Civ Eng 413(P).

614 Hazardous Waste Management. 3 cr. U/G. Hazardous waste; regulatory process; fate and transport of contaminants; treatment and disposal methods; site remediation; quantitative risk assessment; design project. |Prereq: jr st; Civ Eng 413(P).

616 Computational Hydraulics and Environmental Flows. 3 cr. U/G. Numerical analysis applied to fluid flows and transport phenomena. Applications in environmental flows, water quality models, transport of pollutant, long wave propagation, etc. |Counts as repeat of Civ Eng 691 w/same topic. Prereq: jr sr, Civ Eng 411(P).

691 Topics in Civil Engineering: (Subtitled). 1-3 cr. U/G. Topics vary. Study of topics in theory and practice of civil engineering. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time the course is offered. |May be retaken to a max of 6 cr. Prereq: jr st.

699 Independent Study. 1-3 cr. U/G. |May be retaken to max of 6 cr toward the undergraduate degree. Prereq: jr st; cons instr.

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CLASSIC Classics

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101 Latin and Greek in English Words. 3 cr. U. A comprehensive study of the basic Greek and Latin word elements underlying modern English usage and their Indo-European background.|Not recom for ESL students. Prereq: none.

170 Classical Mythology. 3 cr. U. A survey of Classical myths in the written sources and in artistic representations.|Prereq: none.

171 Classical Mythology: An Audio-Visual Supplement. 1 cr. U. Slide series depicting the influence of classical myth on art and music reinforcing the material presented in Classic 170.|Not open for cr to students who have earned 3 or more cr in Classic 170(ER). Prereq: Classic 170(C).

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

201 Introduction to Greek Life and Literature. 3 cr. U. Ancient Greek life and literature, emphasizing the surviving works of earliest authors, Homer and Hesiod.|Prereq: none; Classic 170(R).

202 Introduction to Roman Life and Literature. 3 cr. U. Roman life and literature, emphasizing events before the death of Augustus.|Prereq: none; Classic 170(R).

211 Alexander the Great to Augustus. 3 cr. U. An introduction to literature, history, and art in Greek culture from Alexander the Great to Augustus.|Prereq: none.

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages.|Jointly offered with, and may be used to repeat, English 213, French 213, German 213, Italian 213, Linguis 213, Polish 213, Russian 213, & Spanish 213. Prereq: none.

274 (Hebr St 274) Ancient Egyptian Civilization. 3 cr. U. Culture of Egypt, with particular attention to its literature reflecting social, political, and religious conditions; emphasis on Egyptian-Hebrew contacts during the second millennium.|Classic (Hebr St) 274 & Hist 274 are jointly offered; they count as repeats of one another. Prereq: none.

289 Internship in Classics, Lower Division. 1-6 cr. U. Application of basic principles of Classics in a business,

organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Classics; 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 The Life and Literature of Classical Athens: Herodotus and Dramatists. 3 cr. U. Classical Greek drama and the writings of Herodotus in translation; their historical background. | Prereq: jr st; Classic 201(R); grade of C or better in English 102(P) or score level 4 on EPT.

302 War and Politics in Ancient Greece. 3 cr. U. Thucydides' history and selections from Plato's works in translation; their historical background. | Prereq: jr st; Classic 301(R); grade of C or better in English 102(P) or score of 637 at level 4 on EPT.

303 The Life and Literature of the Roman Empire. 3 cr. U. Major literary works from the early Roman empire in translation; their historical background. | Prereq: jr st.

304 The Graeco-Roman World: (Subtitled). 3 cr. U/G. Life and literature (in translation) of the ancient Greco-Roman world. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Classic 301(R), 302(R), or 303(R).

312 Ancient Epic Oral Traditions. 3 cr. U. Epic oral traditions of Greece and other ancient and more modern world-wide traditions. | Counts as repeat of Classic 304 w/similar topic. Prereq: jr st.

351 Ancient Greek Religion. 3 cr. U. Ancient Greek religious practices, surveying textual and archaeological evidence as well as major scholarly work in the field. Knowledge of Ancient Greek is not required. | Prereq: jr st; grade of C or better in English 102(P) or score of 637 at level 4 on EPT; Classic 201(R).

370 Hittite Myth and History. 3 cr. U. Origins and history of the Hittites; their myths, culture, and connections with ancient Greece, Troy, Egypt, and Assyria. | Counts as repeat of Classic 304 w/same subtitle. Prereq: jr st.

390 Egyptian Mythology. 3 cr. U. Egyptian myths and ancient religious practices, emphasizing religious thought in Greco-Roman Egypt. | Prereq: jr st.

489 Internship in Classics, Upper Division. 1-6 cr. U. Application of advanced principles of classics in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Classic; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st. Add'l prereqs may be assigned to specific topic.

699 Directed Reading. 1-3 cr. U. Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord. | May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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COMMUN Communication

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101 Introduction to Interpersonal Communication. 3 cr. U. Basic concepts for understanding communication in interpersonal relationships. Combines a theoretical approach with a skills approach to the study of interpersonal communication.|Prereq: none.

103 Public Speaking. 3 cr. U. Principles of public address in informative, persuasive and special occasion situations with emphasis on the theory, composition, and presentation of speeches.|Prereq: none.

105 Business and Professional Communication. 3 cr. U. Analysis and application of communication principles and practices (interpersonal communication, teamwork issues, public speaking, technological communication) fundamental to successful participation in organizational and professional activities.|Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent study under the supervision of an appropriate faculty or staff member. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

200 Introduction to Communication Research. 3 cr. U. The purposes and basic processes of communication.|Prereq: none

260 Elements of Human Communication Theory. 3 cr. U. Theory and research in fundamental concepts, antecedents, consequences, and effects of human communication; emphasis on range of approaches to the study of human communication.|Prereq: soph st; Commun 101(P).

264 Persuasive Speaking. 3 cr. U. Designed specifically to increase students' understanding of and proficiency in various techniques and modes of persuasive speaking.|Prereq: Commun 103(P).

285 Communicating with Older Adults. 3 cr. U. Application of communication research and theory to the understanding of communication with, about, and among older adults.|Prereq: none

288 Research Practicum. 1-3 cr. U. Research experience under the supervision of a member of the Commun faculty. Offered as cr/no cr only. May be retaken to 6 cr max, w/3 cr max from any one faculty member. Prereq: Commun 200(P); 3.00 overall gpa; satisfaction of GER English Composition competency req; writ cons instr.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

298 Internship in Communication. 1-3 cr. U. Field experience in profit/nonprofit organization; course examines professional communication issues. May be retaken to 6 cr max. Offered as cr/no cr only. Prereq: 2.0 gpa overall; writ cons internship dir.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

300 Interviewers and Interviewing. 3 cr. U. Focuses on information-getting interviews. Discussion, practice, and analysis of interviewer effects, setting, question form, sequence, and wording. Prereq: jr st; satisfaction of English Composition competency req.

301 Interpersonal Communication Processes. 3 cr. U. Focused analysis of the processes involved in face to face communication, includes the examination of the communication variables which define, sustain, or change interpersonal relationships. Prereq: jr st; Commun 101(P); satisfaction of GER English Composition competency req.

310 Communication in Organizations. 3 cr. U. Factors affecting structure and function of communication in organizations. Emphasis on concepts and principles enhancing effective management of communication processes. Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

313 Human Communication and Technology. 3 cr. U. Examination of the actual and potential role of technology in facilitating satisfying communication relationships. Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

320 Nonverbal Communication. 3 cr. U. Reviews theory and research in nonverbal aspects of human communication. Consideration of specific research in such areas as proxemics, kinesics, paralanguage, interpretation of nonverbal messages. Prereq: jr st; satisfaction of GER English Composition competency req.

323 Communication in Groups and Teams. 3 cr. U. Analysis of communication processes in groups and teams; includes examination of theories and research findings; addresses group and team participation and decision-making skills. Prereq: jr st; Commun 105(P); satisfaction of GER English Composition competency req; or cons instr.

327 Instructional Communication for Human Resource Trainers. 3 cr. U. Theory and practice of instructional communication methods used to train employees of profit and nonprofit organizations. Prereq: jr st; Commun 103(P) or 105(P); satisfaction of GER English Composition competency req.

335 Critical Analysis of Communication. 3 cr. U. Nature, development, and applications of criticism, with major emphasis on contemporary communication situations. Prereq: jr st; satisfaction of Oral and Written Communication Part A GER.

350 Intercultural Communication. 3 cr. U. Overview of U.S. intercultural communication, including communication issues for interracial and interethnic communication. Prereq: jr st; satisfaction of GER English Composition competency

req.

362 Argumentation and Debate. 3 cr. U. The theory and practice of argumentation with emphasis on critical thinking, argument analysis, and preparation of policy and evaluative arguments. | Prereq: jr st; satisfaction of GER English Composition competency req.

363 Communication in Human Conflict. 3 cr. U. Investigation of the relationship between communication and the processes of human conflicts. Focus upon the nature and origin of human conflict and communicative strategies which may be used to manage conflict situations. | Prereq: jr st; Commun 101(P); satisfaction of GER English Composition competency req.

365 Negotiation Skills Workshop. 3 cr. U. Simulation-based, interactive workshop on improving student's understanding of the negotiation process; building communicative effectiveness as a negotiator in various business and personal contexts. | Prereq: jr st; satisfaction of GER English Composition competency req.

370 Quantitative Research in Communication. 3 cr. U. Concepts, strategies and methods in the quantitative assessment of problems in the study of human communication as a behavioral science. | Prereq: jr st; satisfaction of Quantitative Literacy, Part A GER.

372 Qualitative Research in Communication. 3 cr. U. Concepts, strategies, and methods in the qualitative, social-scientific study of human communication. Emphasis on interviews, focus groups, and participant observation. | Prereq: jr st; satisfaction of Oral & Written Communication Part A GER.

380 Honors Seminar: (Subtitled). 3H cr. U. Topics related to current social problems and communication. | May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

381 Health Communication. 3 cr. U. Theory and process of health communication at multiple levels: individual, social network, organizational, community, and societal. Current research in health communication. | Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

401 Communication in Marital and Family Relationships. 3 cr. U. Social scientific approach to the study of communication in marital/family relationships. Examination of theory and research concerning communication processes in marital/family relationships. | Prereq: jr st; Commun 101(P); satisfaction of GER English Composition competency req.

402 Gender and Communication. 3 cr. U. Course focuses on interactive relationships between gender, communication, and culture; in particular, the ways in which communication creates and perpetuates gendered identities and gendered interaction. | Prereq: jr st; satisfaction of GER English Composition competency req.

410 Organizational Communication Technology. 3 cr. U. Conceptual and analytical consideration of communication consequences and needs related to technological assimilation and designing work environments. | Prereq: jr st; satisfaction of GER English Composition competency req.

413 Rhetoric and the Internet. 3 cr. U. Critical exploration and analysis of the internet as a communication phenomenon. | Prereq: jr st; satisfaction of GER English Composition competency req.

423 Decision-Making and Creativity. 3 cr. U. Key issues in decision making and creativity at various organizational levels and across different decision making domains. | Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

435 Rhetoric in Western Thought. 3 cr. U. A survey of rhetorical theory in western thinking since ancient Greece. | Prereq: jr st; Commun 103(P); satisfaction of GER English Composition competency req.

436 Recent Rhetorical Theory. 3 cr. U. Recent American and European theories of rhetoric as a dimension of human

communication.|Prereq: jr st; Commun 103(P); satisfaction of GER English Composition competency req.

440 Contemporary Problems in Freedom of Speech. 3 cr. U. Current legal and regulatory issues that involve freedom of speech.|Prereq: jr st; satisfaction of GER English Composition competency req.

450 Cross-Cultural Communication. 3 cr. U. Theories, research methods, and communication issues in cross-cultural, international interactions.|Prereq: jr st; satisfaction of GER English Composition competency req.

462 Communication in the Legal Process. 3 cr. U. Theory and research in argumentation and persuasion and application in the legal process.|Prereq: jr st; Commun 103(P) or 362(262)(P); satisfaction of GER English Composition competency req.

464 Theory and Practice of Persuasion. 3 cr. U. Consideration of principles and methods of persuasion, with practice in the analysis and preparation of persuasive messages.|Prereq: jr st; satisfaction of GER English Composition competency req.

472 Rhetoric of Radicalism in the United States. 3 cr. U. Rhetoric of radical movements in the United States including the American Revolution, the abolitionist and free love movements, Black Nationalism, women's liberation, and contemporary radical movements.|Counts as repeat of Commun 651 w/similar topic. Prereq: jr st.

474 Rhetoric of Women's Rights in the US. 3 cr. U. Rhetoric of women's rights and its relationship to equality and participation.|Counts as repeat of Commun 651 w/similar topic. Prereq: jr st.

481 Interpersonal Issues in Health Communication. 3 cr. U. Theory and practice of health communication at the interpersonal level, including such topics as personal relationships, provider-patient interaction, technology, and interpersonal education and prevention.|Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; satisfaction of GER English Composition competency req; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st; satisfaction of GER English Composition competency req; add'l prereqs may be assigned to specific topic.

550 International and Global Communication. 3 cr. U/G. Models, theories, and contexts of relational communication between people from different nation states, viewed from interpersonal, small group, organizational, and rhetorical perspectives.|Prereq: jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.

581 Health Communication Interventions. 3 cr. U. Theories, strategies, and methods in the design of health promotional and disease prevention interventions. Development of ethical and culturally responsive communication strategies.|Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

588 Research Practicum. 1-3 cr. U. Advanced research experience under the supervision of a member of the Commun faculty.|Offered as cr/no cr only. May be retaken to 6 cr max, w/3 cr max from any one faculty member. Prereq: jr st; commun major or minor; 3.00 overall gpa; Commun 200(P), 335(P), or 370(P); satisfaction of GER English Composition competency req; writ cons instr.

597 Practicum in Teaching Communication. 1-3 cr. U. |May be retaken to 6 cr max, with max of 3 cr from any one faculty member. Prereq: jr st; declared commun major or minor; 3.00 gpa in Commun; satisfaction of GER English

Composition competency req; writ cons instr.

627 Designing and Developing Communication Courses and Programs. 3 cr. U/G. Theory/methods in designing/developing communication courses/programs for academic (college)/organizational (training) environments. Students design/develop instructional materials for online and/or onsite delivery.|Prereq: jr st; 9 cr Commun 300-level or above; declared Commun or BAOA major; satisfaction of GER English Composition competency req; or cons instr.

631 Current Topics in Interpersonal Communication/Conflict Management: (Subtitled). 3 cr. U. Research-oriented approaches to interpersonal communication/conflict management. Specific topics announced in Schedule of Classes when course is offered.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

641 Current Topics in Organizational/Professional Communication: (Subtitled). 3 cr. U. Research-oriented approaches to organizational/professional communication. Specific topics announced Schedule of Classes when course is offered.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

651 Current Topics in Rhetorical/Public Communication: (Subtitled). 3 cr. U. Research-oriented approaches to rhetorical/public communication. Specific topics announced in Schedule of Classes when course is offered.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

655 Cultural Training and Adjustment. 3 cr. U/G. Theories and research related to the role of communication in cultural adjustment processes, cultural training, and evaluation of training.|Prereq: jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.

660 Communication Capstone Seminar: (Subtitled). 3 cr. U. Applying theory and principles from across the major to a focused learning experience.|May not be retaken for cr, but may be repeated for higher grade. Prereq: sr st; 9 crs Commun 300-level or above; declared Commun major; satisfaction of GER English Composition competency req; or cons instr.

662 Seminar in Communication: (Subtitled). 3 cr. U. Taught in seminar format.|May not be retaken for cr, but may be repeated for higher grade. Prereq: sr st; 9 crs Commun 300-level or above; declared Commun major; satisfaction of GER English Composition competency req; or cons instr.

665 Introduction to Mediation. 3 cr. U/G. Course focuses on learning about the mediation process, related theories, and its application in a variety of contexts. Students receive twenty hours of mediation training.|Prereq: jr st; satisfaction of GER English Composition competency req.

667 Great American Speakers and Issues. 3 cr. U/G. Selected great speakers and their speeches on major issues in American history.|Prereq: jr st; satisfaction of GER English Composition competency req.

672 Communication and Social Order. 3 cr. U/G. The role of communication in both maintaining and challenging social structures and hierarchies.|Prereq: jr st; satisfaction of GER English Composition competency req.

675 Communication in International Mediation and Peacebuilding. 3 cr. U/G. The various forms of international mediatory activity employed to bring sustainable peace to areas gripped by ethnic and social conflict.|Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

681 Seminar in Communication in a World of AIDS. 3 cr. U/G. Communication issues surrounding education and prevention of HIV infection both in the United States and across the world.|Prereq: jr st; satisfaction of GER English Composition competency req.

697 Organizational Administration Capstone. 3 cr. U. Internship, case analysis, or independent study that synthesizes course work in graded paper.|Commun 697, Econ 697, & Sociol 697 are jointly offered; they count as repeats of one

another. Prereq: sr st; declared org adm major; satisfaction of GER English Composition competency req; cons instr.

698 Internship in Communication. 3 cr. U. Field experience in a profit/nonprofit organization; course examines professional communication issues. | May be retaken w/chg in organization to 6 cr max. Prereq: jr st; declared Commun major or approved program of study; 9 cr Commun 300-level or above; 2.5 overall gpa; satisfaction of GER English Composition and Math competency reqs; writ cons internship dir.

699 Advanced Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a Commun faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept dir of undergrad stds. | May be retaken w/chg in topic. Prereq: jr st; 2.5 gpa; satisfaction of GER English Composition competency req; writ cons instr, dept chair, & asst dean for SAS.

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101 Introduction to Clinical Laboratory Sciences. 2 cr. U. Lecture and laboratory instruction to introduce the student to the profession of clinical laboratory sciences with special emphasis in medical technology and cytotechnology. |Prereq: none.

201 Sexually Transmitted Diseases and AIDS. 3 cr. U. Introductory course examining epidemiology, physiology, and microbiology of sexually transmitted infectious diseases. Information on reproductive physiology, pathophysiology and clinical disease, prevention and current treatment strategies. |Prereq: none.

204 Plagues, Pandemics, and Epidemics. 3 cr. U. Basic principles and concepts of infectious diseases recognized to be of major worldwide importance in terms of mortality and morbidity. |Prereq: none.

205 Introduction to Diagnostic Medicine. 3 cr. U. This course will provide a framework for understanding medical diagnostic tests in terms of procedures, risks, interpretation of results and relevant science behind the tests. |Counts as repeat of BMS 205X. Prereq: none.

232 Introduction to Nutrition. 3 cr. U. Fundamentals of human nutrition, functions and requirements of nutrients, nutritional needs throughout the life cycle. |Not open for cr to students with cr in Hlthsci 238 or BMS 332. Prereq: none.

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity. |BMS/ComSDis/HCA/Kin/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Counts as repeat of BMS 245X. Prereq: soph st or cons instr.

260 Introduction to Complementary and Integrative Health Approaches. 3 cr. U. Introduction to the philosophy, evidence and applications of diverse medical and health care systems, practices, and products that are not generally considered part of conventional western biomedicine. |Counts as repeat of BMS 260X. Prereq: none.

281 Dead Men Do Tell Tales: An Introduction to Forensic Science. 3 cr. U. A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated. |Jointly-offered with & counts as repeat of Anthro/Chem/Crm Jst 281. Prereq: none.

285 Medicolegal Death Investigation. 3 cr. U. Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators. |Jointly-offered with & counts as repeat of Anthro/Chem/Crm Jst 285. Prereq:

none.

290 Topics in Health Sciences: (Subtitled). 1-3 cr. U. Topics of current interest in the field of health sciences. |May be repeated with change in topic. Prereq: specified in sem schedule whenever req'd for a topic.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance to Study Abroad Prog.

301 (HS 301) Human Pathophysiology: Fundamentals. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cell injury, inflammation, immunopathology, repair, regeneration and fibrosis. |Prereq: Bio Sci 203(P) or cons instr.

302 (HS 302) Human Pathophysiology: Organ Systems I. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover developmental and genetic disorders, neoplasms, nervous system, bones, joints, skeletal muscle. |Prereq: BMS 301(C) or cons instr.

303 (HS 303) Human Pathophysiology: Organ Systems II. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cardiovascular, respiratory, blood and lymphoid systems, diabetes. |Prereq: BMS 301(C) or cons instr.

304 (HS 304) Human Pathophysiology: Organ Systems III. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover gastrointestinal tract, pancreas, kidney, liver/biliary system, female and male reproductive systems. |Prereq: BMS 301(C) or cons instr.

305 (HS 305) Human Pathophysiology: Organ Systems IV. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis/treatment of these disorders. Topics: endocrine system, infectious and parasitic diseases, environmental and nutritional factors related to morbidity/mortality. |Prereq: BMS 301(C) or cons instr.

306 Imaging Procedures I. 5 cr. U. Radiographic anatomy and procedures related to upper and lower extremities, chest, abdomen, and barium studies. Pediatric imaging is discussed. |Prereq: jr st; BioMed Sci prog or cons instr.

307 Seminar in Radiography I. 3 cr. U. Basic concepts of patient care, including consideration for the cultural, physical and psychological needs of the patient and family. |Prereq: jr st; BioMed Sci prog or cons instr.

308 Imaging Procedures II. 5 cr. U. Radiographic anatomy and procedures for the bony thorax, vertebral column, and iodinated studies will be covered. Pediatric imaging for each procedure will be discussed. |Prereq: jr st; BioMed Sci prog or cons instr.

309 Imaging Procedures III. 3 cr. U. Radiographic anatomy and procedures for the cranium and facial bones; pediatric imaging for each procedure will be discussed. |Prereq: none.

310 Introduction to Sonography. 3 cr. U. Introduction to Diagnostic Medical Sonography with an overview of basic terminology, techniques, and equipment. |Prereq: jr st; BioMed Sci prog or cons instr.

311 Abdominal Sonography-I. 3 cr. U. Anatomy, physiology, pathology, and pathophysiology of the abdominal vessels and organs as they relate to sonography. |Prereq: jr st in BioMed Sci prog or cons instr.

312 Abdominal Sonography-II. 3 cr. U. Anatomy, physiology, pathology, and pathophysiology of the kidneys and abdominal organs as they relate to sonography. |Prereq: jr st BioMed Sci prog or cons instr.

313 Sonography Clinical Education I. 3 cr. U. Introduction to sonography scanning and development of clinical skills. |Prereq: jr st in BioMed Sci prog or cons instr.

319 Abdominal Sonography III. 2 cr. U. Anatomy, physiology, pathology, and pathophysiology of the male pelvis, intraoperative, and pediatric specialty exams as they relate to sonography.|Prereq: jr st in BioMed Sci prog or cons instr.

320 Obstetrics/Gynecology Sonography I. 3 cr. U. Normal gross, relational and sonographic anatomy of the female pelvic region. Physiology and related laboratory and clinical findings for disease processes are discussed.|Prereq: jr st in BioMed Sci prog or cons instr.

321 Obstetrics/Gynecology Sonography II. 3 cr. U. Gravid uterus and fetal development. Gestational dating methods, embryology, and maternal and fetal anatomy.|Prereq: jr st in BioMed Sci prog or cons instr.

322 Obstetrics/Gynecology Sonography III. 3 cr. U. Fetal anomalies, disease processes, and pathologies. Various fetal and maternal pathologies explained in sonographic terms.|Prereq: jr st in Bio Med Sci prog or cons instr.

323 Sonographic Principles and Instrumentation. 3 cr. U. Characteristics of sound and mechanism of sonographic image production and display. Potential biological effects. Safety and mathematical principles.|Prereq: jr st in BioMed Sci prog or cons instr.

324 Sonography Clinical Education II. 3 cr. U. Clinical practicum rotations including abdominal and OB/GYN imaging, and vascular technology.|Prereq: jr st in BioMed Sci prog or cons instr.

325 Specialized Sonography. 2 cr. U. Embryology, structure, physiology, and pathology of the thyroid, breast, and testicle. Normal and abnormal gross, cross-sectional, and relational sonographic anatomy.|Prereq: jr st in BioMed Sci prog or cons instr.

326 Sonography Clinical Education III. 3 cr. U. Clinical practicum rotations including abdominal and OB/GYN imaging, and vascular technology.|Prereq: jr st in BioMed Sci prog or cons instr.

327 Foundations of Sonography I. 2 cr. U. Initial introduction to diagnostic medical sonography with an overview of basic terminology, techniques, and equipment.|Prereq: jr st; BioMed Sci prog or cons instr.

328 Foundations of Sonography II. 1 cr. U. Introduction to diagnostic medical sonography with an overview of basic techniques and equipment.|Prereq: BMS 327(P); jr st; BioMed Sci prog or cons instr.

332 Clinical Nutrition. 2 cr. U. Nutritional needs throughout life; relationships between food habits and health problems; evaluating dietary information for deficiencies and imbalances.|Prereq: Chem 103(P), Bio Sci 202(P) & 203(P), or BMS 232(P) or HlthSci 232(P).

335 Echocardiography I. 3 cr. U. Introduction to normal cardiovascular anatomy, the normal ultrasound exam and protocol for an echocardiogram.|Prereq: jr st in BioMed Sci prog or cons instr.

336 Cardiovascular Principles I. 4 cr. U. Introduction to cardiac physiology, mechanical events, left ventricle function indicators, timing of mitral and aortic flow, auscultation, phonocardiography, hemodynamics and Doppler applications of echocardiography.|Prereq: jr st in BioMed Sci prog or cons instr.

337 Clinical Education I - Echocardiography. 3 cr. U. Clinical practicum rotations including adult echocardiography.|Prereq: jr st in BioMed Sci prog or cons instr.

340 Embryology of the Cardiovascular System. 2 cr. U. Development and developmental anomalies of the cardiovascular system.|Prereq: jr st in BioMed Sci prog or cons instr.

341 Adult Echocardiography - Valvular Pathology. 3 cr. U. Introduction to cardiac pathology seen on echocardiograms in the adult population.|Prereq: jr st in BioMed Sci prog or cons instr.

342 Clinical Education II - Echocardiography. 3 cr. U. Clinical practicum rotations including adult and pediatric

echocardiography.|Prereq: jr st in BioMed Sci prog or cons instr.

345 Pediatric Echocardiography I. 3 cr. U. Introduction to various types of congenital heart disease and pediatric cardiac procedures.|Prereq: jr st in BioMed Sci prog or cons instr.

346 Adult Echocardiography - Cardiomyopathies. 2 cr. U. Cardiovascular disease and diagnostic cardiac procedures in the adult population.|Prereq: jr st in BioMed Sci prog or cons instr.

347 Clinical Education III - Echocardiography. 3 cr. U. Clinical practicum which includes adult and pediatric echocardiography clinical rotations with focus on advanced adult competencies.|Prereq: jr st in BioMed Sci prog or cons instr.

350 Introduction to Radiologic Science and Healthcare. 2 cr. U. Introduction to Radiologic Technology imaging principles and equipment. Basic concepts of patient care, emergency care, CPR, medical ethics, legal issues, and cultural diversity.|Prereq: jr st in BioMed Sci prog or cons instr.

351 Radiation Protection. 2 cr. U. All aspects of radiation protection including radiation safety, detection, and measurement relevant to Radiologic Technology.|Prereq: jr st in BioMed Sci prog or cons instr.

352 Human Structure & Function I. 2 cr. U. Structure and physiology of the human body as they relate to radiography of the respiratory, digestive and urinary systems, and skeletal anatomy.|Prereq: jr st in BioMed Sci prog or cons instr.

353 Principles of Imaging I. 2 cr. U. Radiographic qualities and factors influencing those qualities. X-ray tube, beam restricting devices, exposure factors, and effects on scatter radiation.|Prereq: jr st in BioMed Sci prog or cons instr.

354 Radiographic Procedures I. 3 cr. U. Introduction to radiographic positioning of the chest, upper extremities, urinary and digestive systems. Pharmacology of contrast media.|Prereq: jr st in BioMed Sci prog or cons instr.

355 Radiography Clinical Education I. 3 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: jr st in BioMed Sci prog or cons instr.

360 Radiation Biology. 2 cr. U. Effects of radiation from the cellular level to the entire human body. Long and short term somatic effects and genetic effects.|Prereq: jr st in BioMed Sci prog or cons instr.

361 Human Structure & Function II. 2 cr. U. Structure and physiology of the human body as they relate to radiography of the digestive and urinary systems and skeletal anatomy.|Prereq: jr st in BioMed Sci prog or cons instr.

362 Principles of Imaging II. 3 cr. U. Radiographic qualities and the factors influencing those qualities. Systems and chemicals used in radiographic processing. Film and processor sensitometry.|Prereq: jr st in BioMed Sci prog or cons instr.

363 Radiographic Procedures II. 3 cr. U. Introduction to radiographic positioning for lower extremities, spine, and digestive system. Students learn to identify anatomy on radiographs and evaluate them for acceptability.|Prereq: jr st in BioMed Sci prog or cons instr.

364 Radiography Clinical Education II. 3 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: jr st in BioMed Sci prog or cons instr.

370 Human Structure & Function III. 1 cr. U. Anatomy and physiology of the human body as they relate to the radiography of the skull, facial bone, and circulatory system.|Prereq: jr st in BioMed Sci prog or cons instr.

371 Radiographic Procedures III. 2 cr. U. Basic concepts of advanced imaging, special procedures, and supplementary imaging modalities.|Prereq: jr st in BioMed Sci prog or cons instr.

372 Radiographic Clinical Education III. 4 cr. U. Clinical Education allows students to rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: jr st in BioMed Sci prog or cons instr.

401 Seminar in Radiography II. 2 cr. U. Evaluation of all aspects of the imaging system from processor to generator.|Prereq: jr st in BioMed Sci prog or cons instr.

402 Introduction to MSK Sonography. 1 cr. U. Study of anatomy (to include anatomic variants), physiology, pathophysiology and the sonographic appearance of the musculoskeletal system as evaluated by diagnostic medical sonography.|Prereq: jr st in BioMed Sci prog or cons instr.

403 Sonographic Physics I. 1 cr. U. Study of the basic principles of acoustic transmission, reflection in tissues and transducer design in pulse echo systems.|Prereq: jr st in BioMed Sci prog or cons instr.

404 Sonographic Physics II. 1 cr. U. Study of the basic principles of near zone, far zone, beam profiles, beam focusing, transducer arrays.|Prereq: jr st in BioMed Sci prog) or cons instr.

405 Sonographic Physics III. 1 cr. U. Study of the basic principles of Doppler, acoustical exposure measurements, QA, bioeffects and the ALARA principle.|Prereq: jr st in BioMed Sci prog or cons instr.

406 Diagnostic Medical Sonography (DMS) Abdomen I. 4 cr. U. Study of normal and abnormal sonograms of the peritoneal space, pre-vertebral vessels, liver, biliary, pancreas and kidneys will be discussed.|Prereq: jr st in BioMed Sci prog or cons instr.

407 Diagnostic Medical Sonography (DMS) Abdomen II. 4 cr. U. Study of normal and abnormal sonograms of the spleen, transplant imaging, GI imaging and dedicated pediatric imaging will be discussed.|Prereq: jr st in BioMed Sci prog or cons instr.

408 Vascular Sonography: CV & PV-Arterial. 5 cr. U. Study of cerebrovascular anatomy, normal and abnormal, and ultrasound imaging, upper arterial ultrasound exams, anatomy and pathology and lower extremity arterial ultrasound.|Prereq: jr st in BioMed Sci prog or cons instr.

409 Vascular Technology: Advanced. 4 cr. U. Study of peripheral vascular direct and indirect arterial and venous, normal and abnormal and abdominal Doppler.|Prereq: jr st in BioMed Sci prog or cons instr.

410 Sonography Clinical Internship I. 5 cr. U. Students will successfully complete sonography clinical competency examinations, under the supervision of the clinical instructors.|Prereq: jr st in BioMed Sci prog or cons instr.

411 Sonography Clinical Internship II. 5 cr. U. Students will successfully complete sonography clinical competency examinations, under the supervision of the clinical instructors.|Prereq: jr st in BioMed Sci prog or cons instr.

420 Clinical Hematology. 3 cr. U/G. Lectures in the production, regulation, function, and cytomorphology of normal hematopoietic elements. Introduction to hemostasis theory.|Prereq: jr st or cons instr.

421 Introduction To Hematology Laboratory. 1 cr. U. Clinical laboratory experiences in basic hematology techniques and instrumentation to evaluate hematopoietic elements. 3 hr lab.|Prereq: jr st in BioMed Sci prog or cons instr; BMS 420(C).

427 Clinical Immunology. 3 cr. U/G. Fundamentals of Clinical Immunology, including cellular, humoral and molecular aspects. Correlation of laboratory test results with clinical disease states.|Prereq: jr st.

428 Clinical Immunology Laboratory. 1 cr. U. Laboratory experiments in clinical immunology and theories of testing concepts. 3 hr lab.|Prereq: jr st in BioMed Sci prog or cons instr; BMS 427(C).

431 Clinical Chemistry. 3 cr. U/G. Correlation of clinical chemistry with the pathophysiology of human disease.|Prereq: jr st; Chem 501(P) or cons instr; or grad st.

432 Clinical Chemistry Laboratory Theory & Operations. 1 cr. U. Theory and application of Clinical Chemistry laboratory principles. Focus on laboratory principles, quality assurance, theory of instrumentation, and laboratory problem solving.|Prereq: jr st in BioMed Sci prog or cons instr; Chem 501(P); BMS 431(C).

433 Teamwork in the Health Professions. 3 cr. U. Develop and demonstrate competency in best practices for professionalism, roles, responsibilities, teamwork, communication, ethics, and collaboration to improve the quality and safety of patient care.|Prereq: sr st or cons instr.

433 (effective 09/04/2018) Teamwork in the Health Professions. 3 cr. U. Develop and demonstrate competency in best practices for professionalism, roles, responsibilities, teamwork, communication, ethics, and collaboration to improve the quality and safety of patient care.|Prereq: sr st or cons instr.

434 Professional Development in the Health Sciences. 3 cr. U. Knowledge and understanding about professional volunteerism, leadership, legislative, and advocacy efforts, certification and licensure, career pathways, growth, and advancement.|Prereq: sr st or cons instr.

434 (effective 09/04/2018) Professional Development in the Health Sciences. 3 cr. U. Knowledge and understanding about professional volunteerism, leadership, legislative, and advocacy efforts, certification and licensure, career pathways, growth, and advancement.|Prereq: sr st or cons instr.

435 Adult Echocardiography - Advanced Pathology. 3 cr. U. Cardiovascular pharmacology and the potential effects of cardiac medications on echocardiographic images.|Prereq: jr st in BioMed Sci prog or cons instr.

436 Pediatric Echocardiography II. 3 cr. U. Advanced instruction in various types of congenital heart disease and pediatric echocardiography.|Prereq: jr st in BioMed Sci prog or cons instr.

437 Stress Echocardiography. 3 cr. U. Indications, utility, limitations and technical procedures related to exercise stress echocardiography.|Prereq: jr st in BioMed Sci prog or cons instr.

438 Clinical Education IV - Echocardiography. 3 cr. U. Clinical practicum rotations including advanced adult and pediatric imaging of the heart with focus on advanced pediatric competencies.|Prereq: jr st in BioMed Sci prog or cons instr.

439 Clinical Education V - Echocardiography. 4 cr. U. Clinical practicum rotations including exercise and pharmacological stress, echocardiograms and transesophageal echocardiograms.|Prereq: jr st in BioMed Sci prog or cons instr.

440 Clinical Education VI - Echocardiography. 3 cr. U. Clinical practicum including advanced imaging in echocardiography techniques.|Prereq: jr st in BioMed Sci prog or cons instr.

441 Special Procedures in Echocardiography. 3 cr. U. Indications, utility, limitations and technical procedures related to transesophageal echocardiography.|Prereq: jr st in BioMed Sci prog or cons instr.

450 Vascular Sonography I. 3 cr. U. Anatomy, physiology, pathology, and pathophysiology of the peripheral vascular subset of the cardiovascular system as it relates to sonography.|Prereq: jr st in BioMed Sci prog or cons instr.

451 Vascular Sonography II. 3 cr. U. Anatomy, physiology, pathology, and pathophysiology of the cerebrovascular subset of the cardiovascular system as it relates to sonography.|Prereq: jr st in BioMed Sci prog or cons instr.

452 Sonography Clinical Education IV. 3 cr. U. Clinical practicum including abdominal and OB/GYN imaging, and vascular technology.|Prereq: sr st in BioMed Sci prog or cons instr.

453 Seminar in OB/GYN Sonography. 3 cr. U. The role of ultrasound in assisting with treatment as it relates to women' s reproductive health and prenatal care.|Prereq: jr st in BioMed Sci prog or cons instr.

454 Inroduction to Fetal Echocardiography. 3 cr. U. Echocardiographic examination of the fetal heart including normal anatomy and congenital heart disease.|Prereq: jr st in BioMed Sci prog or cons instr.

455 Vascular Sonography III. 3 cr. U. Doppler principles, spectral display, hemodynamics of abdominal, transplant organ, and penile vascular techniques; vascular statistics.|Prereq: sr st in BioMed Sci prog or cons instr.

457 Sonography Clinical Education V. 4 cr. U. Clinical practicum including abdominal and OB/GYN imaging, and vascular technology.|Prereq: sr st in BioMed Sci prog or cons instr.

458 Seminar in Advanced Medical Imaging. 3 cr. U. Comparison of normal and pathological anatomy cases combining diagnostic medical sonography, computed sonography and magnetic resonance imaging.|Prereq: jr st in BioMed Sci prog or cons instr.

459 Introduction to 3D/4D Ultrasound. 3 cr. U. Comparison of normal and pathological anatomy cases utilizing two, three and four dimensional sonography techniques.|Prereq: jr st in BioMed Sci prog) or cons instr.

460 Professional Development in Sonography - Seminar. 3 cr. U. Current trends in health care and sonography. Federal regulations, Medicare, managed care, professional organizations, and certication exam preparation.|Prereq: sr st in BioMed Sci prog or cons instr.

461 Sonography Clinical Education VI. 3 cr. U. Mastery of abdominal, pelvic, obstetrical, neonatal head, specialty parts, vascular and routine cardiac scanning. Students gain competence in advanced cardiac scanning.|Prereq: sr st in BioMed Sci prog or cons instr.

462 Seminar in Ultrasound Research. 3 cr. U. Student is assigned to a research project and mentor in didactic one-on-one sessions and performing clinical studies.|Prereq: jr st in BioMed Sci prog or cons instr.

463 Seminar in Education and Management in Medical Imaging. 3 cr. U. Problem solving of management issues relating to diagnostic medical sonography and exploring educational strategies employed in ultrasound education.|Prereq: jr st in BioMed Sci prog or cons instr.

464 Introduction to Neurosonography. 3 cr. U. Anatomy, physiology, pathology, pathophysiology and the sonographic appearance of the normal and abnormal fetal and neonatal brain.|Prereq: jr st in BioMed Sci prog or cons instr.

470 Radiographic Physics I. 2 cr. U. Atomic and subatomic theories, electrical theory, interaction of x-rays with matter, production of radiation, equipment maintenance, x-ray circuits, tubes, and cooling charts.|Prereq: sr st in BioMed Sci prog or cons instr.

471 Digital Imaging. 3 cr. U. Radiographic qualities and factors influencing those qualities. Principles of flouroscopy, AEC, tomography, and other accessory equipment.|Prereq: sr st in BioMed Sci prog or cons instr.

472 Radiographic Anatomy and Physiology IV. 3 cr. U. Structure and physiology of the human body as they relate to radiography of the remaining systems. The physiochemical process.|Prereq: sr st in BioMed Sci prog or cons instr.

473 Imaging Procedures IV. 2 cr. U. Skull positioning advanced skills, special procedures, and supplementary imaging modalities.|Prereq: sr st in BioMed Sci prog or cons instr.

474 Radiography Clinical Education IV. 3 cr. U. Students to rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: sr st in BioMed Sci prog or cons instr.

475 Radiographic Physics II. 2 cr. U. Current concepts in quality assurance. The physics of advanced modalities. The physics of radiobiology and radiation protection.|Prereq: sr st in BioMed Sci prog or cons instr.

476 Radiographic Exposure IV. 3 cr. U. Digital imaging concepts and conversion problems, qualities of contrast, density, detail, and distortion.|Prereq: sr st in BioMed Sci prog or cons instr.

477 Cross Sectional Anatomy. 3 cr. U. Structure and physiology of the human body as it appears in cross section. Diagrams, CT, and MRI images are utilized.|Prereq: sr st in BioMed Sci prog or cons instr.

478 Radiologic Pathology. 3 cr. U. Changes that occur in disease and injury and their applications to radiography.|Prereq: sr st in BioMed Sci prog or cons instr.

479 Radiography Clinical Education V. 3 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: sr st in BioMed Sci prog or cons instr.

481 Criminalistics. 3 cr. U. Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.|Anthro 481, Chem 481, BMS 481, & Crm Jst 481 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/Crm Jst 281(P); Crm Jst 480 (P).

482 Radiography Clinical Internship I. 6 cr. U. 600 hours of clinical experience. The student will begin surgical and evening rotations.|Prereq: jr st in BioMed Sci prog or cons instr.

483 Radiography Clinical Internship II. 3 cr. U. Rotations through the Emergency Department, diagnostic area outpatient and orthopedic clinics, CT, MRI, and interventional radiology.|Prereq: jr st in BioMed Sci prog or cons instr.

484 Radiography Clinical Internship IV. 1 cr. U. 70 hours of clinical practice. Opportunity to rotate through any area of interest in a variety of imaging modalities.|Prereq: jr st in BioMed Sci prog or cons instr.

485 Professional Development in Radiography. 2 cr. U. Federal regulations and legislation as they relate to the health care profession and radiology. Preparation for the certification exam.|Prereq: sr st in BioMed Sci prog or cons instr.

486 Radiography Clinical Education VI. 4 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: sr st in BioMed Sci prog or cons instr.

496 Professional Growth and Career Advancement in Diagnostic Imaging Professions. 3 cr. U. Exploration and discussion of volunteerism and leadership in professional associations, professional advocacy, emerging trends in certification, re-certification and career pathways related to career advancement.|Counts as repeat of BMS 590 w/ same topic. Prereq: admis to BMS major; or cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance to Study Abroad Prog.

501 Introduction to Cytotechnology. 1 cr. U. Fieldwork to include lecture and laboratory instruction introducing the profession of Cytotechnology with emphasis on the role, responsibility, and ethics of the profession.|Prereq: sr st in BioMed Sci prog & cons prog dir.

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- 521 Applied Clinical Hematology. 2 cr. U.** Instruction in hematological laboratory techniques and the pathophysiology of disease of the reticuloendothelial system using case studies as a basis of discussion.|Prereq: sr st in BioMed Sci prog or cons instr.
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- 522 Hemostasis. 1 cr. U.** Correlation of basic theories of the hemostatic system with normal and abnormal clinical laboratory results. Introduction to basic methodology employed in differential diagnosis of hemostatic disorders.|Prereq: sr st in BioMed Sci prog or cons prog dir.
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- 523 Lectures in Advanced Clinical Hematology. 1 cr. U.** Lectures dealing with abnormalities of hematopoiesis, and the blood dyscrasias, and examination of bone marrow and lymphnodes.|Prereq: BMS 420(320)(P) or cons instr.
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- 524 Advanced Clinical Hematology Practicum. 3 cr. U.** Practical experience in the clinical laboratory dealing with both normal and abnormal hematology and body fluids.|Prereq: sr st in BioMed Sci prog or cons prog dir.
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- 529 Introduction to Immunohematology. 3 cr. U.** An introduction to the fundamentals of immunohematology and clinical blood banking.|Prereq: BMS 427(P) or cons instr.
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- 530 Immunohematology and Blood Banking Laboratory. 1 cr. U.** Fundamental practical instruction in basic blood banking techniques.|Prereq: BMS 529(C) or cons instr.
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- 531 Advanced Lectures in the Clinical Laboratory Sciences. 1 cr. U.** Clinical applications and relationships within the various disciplines of clinical laboratory sciences including discussion of current topics of interest in diagnostic medicine.|Prereq: sr st in BioMed Sci prog or cons instr.
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- 532 Advanced Clinical Immunohematology and Immunology. 3 cr. U.** Practical instruction in clinical serology and immunohematology. Correlation of test results with disease states.|Prereq: sr st in BioMed Sci prog or cons prog dir.
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- 534 Medical Microbiology. 3 cr. U/G.** Advanced comprehensive study of microorganisms that influence human health and disease. Emphasis on identification/diagnosis and microbial attributes and mechanisms that facilitate infectious disease.|Prereq: jr st & Bio Sci 383(303)(P); or grad st; or cons instr.
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- 535 Medical Microbiology Laboratory. 2 cr. U/G.** Formal systematic laboratory study of microorganisms important in human health and disease. Emphasis on current methods of detection, identification and treatment. 4 hr lab.|Prereq: jr st & Bio Sci 383(303)(P), or cons instr; BMS 534(C).
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- 536 Applied Clinical Microbiology. 2 cr. U.** Lectures and laboratory dealing with the systematic study of bacteria of medical importance to humans.|Prereq: sr st in BioMed Sci prog or cons prog dir.
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- 537 Medical Parasitology and Mycology. 2 cr. U/G.** Lectures and laboratory dealings with the medically significant parasitic and mycotic agents of human disease.|Prereq: sr st in BioMed Sci prog; or grad st; or cons instr.
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- 538 Advanced Clinical Microbiology Practicum. 3 cr. U.** Clinical instruction in techniques utilized for the diagnosis of infectious disease, including special culture techniques.|Prereq: sr st in BioMed Sci prog or cons prog dir.
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- 539 Public Health Microbiology. 2 cr. U/G.** The role of microbiological analysis in public health and the current techniques for detecting, identifying, and enumerating pathogenic microorganisms.|Prereq: jr st & Bio Sci 383(303)(P), or grad st; or cons instr.
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- 540 Public Health Microbiology Lab. 2 cr. U/G.** Current laboratory techniques for detecting, identifying, and enumerating pathogenic microorganisms.|Prereq: jr st, or cons instr
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- 541 Urinalysis. 1 cr. U.** Lecture and laboratory experience in clinical analysis of urine.|Prereq: sr st in BioMed Sci prog or cons instr.

542 Applied Clinical Chemistry. 2 cr. U. Systematic instruction in the laboratory determination of substances of principal interest to the diagnosis of human disease.|Prereq: sr st in BioMed Sci prog or cons instr.

544 Advanced Clinical Chemistry Practicum. 3 cr. U. Experience in a hospital laboratory dealing with routine and specialized biochemical procedures and all phases of instrumentation currently used in this field.|Prereq: sr st in BioMed Sci prog or cons prog dir.

545 Human Histology. 3 cr. U/G. A detailed study of the structure and function of human tissues.|Prereq: jr st.

547 Clinical Laboratory Diagnosis. 5 cr. U. Lectures and laboratory covering special topics in the use of laboratory testing in clinical diagnosis of disease.|Prereq: sr st in BioMed Sci prog or cons prog dir.

548 Clinical Laboratory Practice. 5 cr. U. Experience in various laboratory techniques.|Prereq: sr st in BioMed Sci prog or cons prog dir.

549 Professional Development in Clinical Laboratory Sciences. 3 cr. U. Discussion and participation in professional development activities. Topics include: laboratory management, laboratory information systems, professional conduct, ethics, certification, job placement, and educational methodologies.|Prereq: sr st in BioMed Sci prog or cons instr.

552 Advanced Nutrition. 2 cr. U/G. Nutrient utilization and human metabolism, nutritional influences in anthropology, epidemiology and international development issues.|Prereq: jr st; BMS 232(P) or Bio Sci 501(P).

555 Toxicology and Therapeutic Drug Monitoring. 1 cr. U/G. Survey of the pharmacology and analytical methods for identification and quantitation of therapeutic and toxic substances.|Prereq: jr st, & Chem 341(P) or 345(P); or cons instr.

560 Molecular and Genetic Diagnostics. 2 cr. U/G. Introduction to principles and applications of DNA technology in the clinical laboratory.| Prereq: jr st, Bio Sci 325 (P); or grad st.

561 Molecular Diagnostics Laboratory. 1 cr. U/G. Clinical laboratory experiences in molecular diagnostic techniques and instrumentation.|Prereq: jr st & BMS 560(C); or grad st & BMS 705(P); or cons instr.

575 Cytology of the Female Genital Tract - I. 4 cr. U. Fieldwork to include lectures discussing the normal and abnormal cytology of the female genital tract.|Prereq: sr st in BioMed Sci prog & cons prog dir.

576 Cytology of the Female Genital Tract - II. 4 cr. U. Fieldwork to include laboratory experience dealing with the study of the normal and abnormal cytology of the female genital tract.|Prereq: sr st in BioMed Sci prog & cons prog dir.

577 Cytology of the Respiratory Tract. 3 cr. U. Lectures and laboratory experience in the study of the normal and abnormal cytology of the respiratory tract.|Prereq: sr st in BioMed Sci prog & cons prog dir.

578 Cytology of the Gastrointestinal and the Genito-Urinary Tract. 2 cr. U. Fieldwork to include lecture and laboratory experience dealing with the normal and abnormal cytology of the G.I. and G.U. tracts.|Prereq: sr st in BioMed Sci prog & cons prog dir.

579 Cytology of Effusions and the Central Nervous System. 3 cr. U. Fieldwork to include lecture and laboratory experiences in the study of various body fluids in health and disease.|Prereq: sr st in BioMed Sci & cons prog dir.

580 Aspiration Cytology. 4 cr. U. Fieldwork to include lecture and laboratory experience dealing with aspiration cytology.|Prereq: sr st in BioMed Sci prog & cons prog dir.

581 Special Procedures in Cytology. 1 cr. U. Fieldwork to include lecture and laboratory experiences dealing with special procedures used in cytological diagnosis.|Prereq: sr st in BioMed Sci prog & cons prog dir.

582 Cytology of the Breast. 1 cr. U. Fieldwork to include lecture and laboratory experiences dealing with the normal and abnormal cytology of the breast. | Prereq: sr st in BioMed Sci prog & cons prog dir.

583 Cytology Preparation Techniques. 1 cr. U. Fieldwork to include laboratory preparation of gynecologic and non-gynecologic cytology specimens using several different instrument methodologies. | Prereq: sr st in BioMed Sci prog & cons prog dir.

585 Internship in Forensic Toxicology. 1-3 cr. U. Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist. | Anthro 585, Chem 585, BMS 585, & Crm Jst 585 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

586 Cytology Lab Operations and Quality Control. 1 cr. U. Basic administrative functions and quality control procedures utilized in the cytology laboratory. | Prereq: sr st in BioMed Sci prog & cons prog dir.

587 Research Methods in Cytology. 1 cr. U. Research methods in cytology through journal club, literature reviews, case studies, and library research. | Prereq: sr st in BioMed Sci prog & cons prog dir.

588 Diagnostic Microscopy in Cytology. 5 cr. U. Fieldwork in a functioning cytotechnology laboratory. | Prereq: sr st in BioMed Sci prog & cons prog dir.

589 Internship in Death Investigation. 1-3 cr. U. Practical experience in death investigation under the supervision of a death investigator and forensic pathologist. | Anthro 589, Chem 589, BMS 589 & Crm Jst 589 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/Crm Jst 281(P); Crm Jst 480(P); BMS 620(R); Hepatitis B vaccine series or waiver.

590 Topics in Clinical Laboratory Sciences: (Subtitled). 1-5 cr. U/G. Topics of current interest in the field of clinical laboratory sciences. The major theme for each semester offering will be posted. | May be retaken w/chg in topic to max of 9 cr for grad students. Prereq: jr st; cons instr for grad cr.

594 Internship in Forensic Science. 1-3 cr. U. On-site shadowing of evidence analyst at State Crime Laboratory. | Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

599 Independent Study. 1-3 cr. U. Individualized experience which enables the student to study current topics of interest to the clinical laboratory scientist. Level of credit assigned based on time required for completion. | May be retaken to 12 cr max. Prereq: cons instr & prog dir.

600 Contrast Diagnostic Imaging. 3 cr. U/G. Use of contrast media in medical imaging diagnostic procedures. | Prereq: jr st in Biomed Sci program; ARRT, ARDMS, or CCI Imaging Certification or completion of an Intro to Diagnostic Imaging course.

601 Molecular Imaging for Diagnostic Imaging. 3 cr. U/G. Study of imaging principles utilized with molecular imaging. To include review of scientific publications for the use of molecular imaging to review various disease processes. | Prereq: jr st in Biomed Sci program; ARRT, ARDMS, or CCI Imaging Certification or completion of an Intro to Diagnostic Imaging course.

610 (HS 610) Pharmacology. 3 cr. U/G. Lectures on pharmacokinetics, mechanisms of action, and physiological effects of toxic and therapeutic substances. | Prereq: jr st, Chem 501(P), or cons instr.

615 Cellular and Molecular Toxicology. 3 cr. U/G. Cellular and molecular mechanisms of toxicant interactions with critical target organelles and molecules and subsequent downstream cellular responses. | Prereq: jr st, Chem 501(P) or

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COMSDIS Commun Sciences & Disorders

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210 Survey of Communication Disorders. 3 cr. U. A broad overview of speech, language, and hearing disorders. Normal development, adult functions and cultural differences are explored, as well as general approaches to rehabilitation.|Prereq: none.

220 Anatomy and Physiology of Speech, Hearing, and Language Mechanisms. 4 cr. U. Structures and functions involved in normal speech, hearing, and language.|Prereq: Bio Sci 202 (P) or cons instr.

230 Introduction to Phonetics. 4 cr. U. Descriptive study of the production and perception of English speech sounds; broad phonetic transcription; introduction to physiological, acoustic, and clinical phonetics. 3 hr Lec, 1 hr Lab/Dis.|Prereq: none.

240 Normal Speech and Language Development. 3 cr. U. Intensive study of children's speech and language acquisition and research techniques for investigating children's speech and language behavior. Interrelationship with other development areas also discussed.|Prereq: none.

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.|BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Prereq: soph st or cons instr.

250 Interprofessional Communication in the Health Sciences. 3 cr. U. Introduction to best-practices in interprofessional communication within the Health Sciences; emphasis on patient-provider interactions, regulations, health literacy, and interprofessional communication.|Prereq: none.

350 Clinical Process I: Articulation and Phonology Disorders. 3 cr. U. Introduction to the clinical process and its application to the assessment and intervention of articulation and phonology disorders in children.|Prereq: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP).

351 Clinical Process II: Child Language Disorders. 3 cr. U. The clinical process and its application to the assessment and intervention of language disorders in children.|Prereq: jr st; admis to major; ComSDis 350(NP).

380 Bases of Hearing Science. 3 cr. U. Consideration of fundamental physical and psychophysical concepts in hearing

science and advanced topics in auditory physiology promoting a basic understanding of hearing and hearing measurement. | Prereq: ComSDis 220(NP) or cons instr.

450 Bases of Fluency and Voice Disorders. 3 cr. U. Overview of the basic requirements for fluent speech and voice production. Also includes an introduction to the disorders of fluency and voice. | Prereq: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP) or cons instr.

460 Survey of Adult Neurogenic Language and Speech Disorders. 3 cr. U. Principles and concepts underlying acquired adult neurogenic language and speech disorders. Topics include aphasia, apraxia, dysarthria, dementia, closed head injury, and right hemisphere disorders. | Prereq: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP) or cons instr.

470 Introduction to Audiology. 3 cr. U. Overview of clinical hearing assessment including principles of assessment, instrumentation and calibration, basic audiometry, interpretation of audiometric results, and hearing disorders. Participation in laboratories required. | Prereq: jr st; ComSDis 220(NP), 380(NP) or cons instr.

480 Speech Science. 3 cr. U. Study of anatomic, physiologic, acoustic and perceptual parameters involved in speech production and perception; exposure to instrumentation for clinical application/research. | Prereq: jr st; admis to major; ComSDis 380 or cons instr.

490 Audiologic (Re)Habilitation. 3 cr. U. Study of the fundamentals of (re)habilitative audiology. Includes study of current comprehensive audiologic (re)habilitative approaches with pediatric through geriatric populations. | Prereq: jr st; ComSDis 470(P).

500 Clinical Practice in Speech-Language Pathology: (Subtitled). 3 cr. U. Initial supervised practicum experience with articulation, phonology, and/or child language disorders. | May not be retaken for cr. Prereq: jr st; admis to major; ComSDis 351(P); cons instr.

520 Counseling in Communication Disorders. 3 cr. U/G. Current theories in counseling and guidance, procedures designed specifically for use with the communicatively impaired. Opportunity for application of knowledge will be provided. | Prereq: jr st; admis to major or cons instr.

579 Special Topics in Communication Sciences and Disorders: (Subtitled). 1-3 cr. U/G. Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered. | May be retaken w/chg in topic to max of 6 cr. Prereq: jr st.

580 Communication Problems of the Older Adult. 3 cr. U/G. Study of the impairments to the communicative process caused by physiological, environmental, and social psychological changes which come with aging. | Prereq: sr st; ComSDis 460 or cons instr.

620 Craniofacial Disorders. 2 cr. U/G. Genetic, embryological, anatomical and physiological aspects of craniofacial disorders, including cleft lip and palate; associated communicative disorders; diagnostic and therapeutic approaches for related speech-language problems. | Prereq: ComSDis 350(P), 351(P), 480(P); cons instr.

630 Communication Disorders in Multicultural Populations. 2 cr. U/G. Application of theoretical models and research perspectives to the assessment and treatment of communication disorders in children from multicultural populations. | Prereq: sr st; cons instr.

634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities. 3 cr. U/G. Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings. | ExcEduc 634, Occthy 634, & ComSDis 634 are jointly offered; they count as repeats of one another. Prereq: jr st.

640 Clinical and Research Instrumentation in Communication Sciences & Disorders. 2 cr. U/G. Hands-on

laboratory experience with several clinically practical and non-invasive instrumentation systems for analyzing, monitoring, documenting normal as well as abnormal articulation, voice and prosody.|Prereq: sr st; ComSDis 480(P); cons instr.

650 Communication Assessment and Intervention for Persons with Disabilities. 3 cr. U/G. Application of various theories and models of communication assessment and intervention for persons with severe/profound disabilities.|Prereq: sr st; cons instr.

660 School-Age Language. 2 cr. U/G. Language disorders in older children and adolescents; application of developmental theory to assessment and intervention.|Prereq: sr st; cons instr.

661 The Role of the Speech-language Pathologist in Literacy. 2 cr. U/G. Language theory related to reading and writing disorders. Speech-language pathologist's role in assessment and intervention.|Prereq: sr st; cons instr.

670 Advanced Procedures in Audiology. 3 cr. U/G. Masking, speech audiometry, acoustic immittance testing, differential diagnosis, audiological screening design, development and implementation, special pediatric and geriatric concerns; audiologic counseling and hearing aid orientation.|Prereq: sr st; ComSDis 470(P); cons instr.

688 Evaluation and Diagnosis in Speech-Language Pathology. 2 cr. U/G. The diagnostic process in speech-language assessment: case histories and interviewing, formal and informal assessment, interpretation of results, and report writing.|Prereq: sr st; ComSDis 351(P); or cons instr.

690 Cognitive Communication Disorders in Adults. 2 cr. U/G. Communication disorders related to traumatic brain injury and dementia in adults. Emphasis on neuropathology, symptomatology, assessment, and management.|Prereq: sr st, ComSDis 460, and cons instr; or grad st.

699 Advanced Independent Study. 1-3 cr. U. Individual program of supervised study.|May be retaken to 6 cr max. Prereq: sr st; cons instr & faculty advisor; completion of advanced independent study form.

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COMPLIT Comparative Literature

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133 Contemporary Imagination in Literature and the Arts. 3 cr. U. Introduction to comparative literature, focusing on the study of world literatures and their relations to other arts, and to cultural and social currents.|Prereq: none.

135 Experiencing Literature in the 21st Century: (Subtitled). 3 cr. U. Critical study of literary forms (e.g. romance, comedy, short story) and their connections with other arts and media, such as cinema, TV, and music.|May be retaken w/chg in topic to 9 cr max. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-6 cr. U. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

207 Global Literature from Antiquity to the 1600s: (Subtitled). 3 cr. U. Literary analysis through a survey of world literature from antiquity through the 1600s.|May not be retaken for cr. Prereq: none.

208 Global Literature from the 17th Century to the Present: (Subtitled). 3 cr. U. Literary analysis through a survey of world literature from the 1600s to the present.|May not be retaken for cr. Prereq: none.

230 Literature and Society: (Subtitled). 3 cr. U. Relationships between literature and aspects of society, e.g., philosophical movements; history; gender, race, class, or sexuality.|May be retaken w/chg in topic to 9 cr max. Prereq: none. CompLit 133(R).

231 Literature and Religion: (Subtitled). 3 cr. U. A close study of the interrelationship of literature and religion across a wide historical spectrum.|May be retaken w/chg in topic to 9 cr max. Prereq: none. CompLit 133(R).

232 Literature and Politics: (Subtitled). 3 cr. U. Multiple ways literature and politics shape and influence one another, with particular focus on links between literary and political representation.|May be retaken w/chg in topic to 9 cr max. Prereq: CompLit 133(R).

233 Literature and Film: (Subtitled). 3 cr. U. Themes, styles, and ideology in cinematic and literary texts.|May be

retaken w/chg in topic to 9 cr max. Prereq: CompLit 133(R).

289 Internship in Comparative Literature, Lower Division. 1-6 cr. U. Application of basic principles of comparative literature in a business, organizational, educational, political, or other appropriate settings. |One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: CompLit 100- or 200-level course; 2.25 gpa; cons supervising faculty member.

293 Literature and Science: (Subtitled). 3 cr. U. Dehumanization of mankind by technology as theme for changing literature. |May be retaken w/chg in topic to 9 cr max. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

309 Great Works of Modern Literature: (Subtitled). 3 cr. U/G. Literature of the twentieth and twenty-first centuries, with emphasis on theme, movement, trend, genre, or mode. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; CompLit 207(R) or 208(R).

316 World Cinema: (Subtitled). 3 cr. U. National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms. |Retakable w/chg in topic to 9 cr max. CompLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr. st or English 290(P); satisfaction of OWC-A.

320 Mediaeval Literature and Culture: (Subtitled). 3 cr. U/G. Major genres, themes, and figures of the Middle Ages through representative literary works, devotional writings, visual art, architecture, and other examples of cultural production. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

321 Renaissance Literature and Culture: (Subtitled). 3 cr. U/G. Major genres, themes, figures, tenets, aspects, influences, and trends in Renaissance literature through representative literary works, visual art, architecture, and other examples of cultural production. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

340 Studies in Literary Genres and Modes: (Subtitled). 3 cr. U/G. Literary genres and modes from at least one international cultural context. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

350 Topics in Comparative Literature: (Subtitled). 3 cr. U/G. One or more areas of comparative literature across periods, genres, or regions. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

360 Seminar in Literature and Cultural Experience: (Subtitled). 3 cr. U/G. How culture is expressed in literary works with specific emphasis on how dominant and marginalized groups are represented in literature. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

362 Transnational Asian Cinemas: (Subtitled). 3 cr. U/G. Critical study of the cinemas of Asia, their film masters, avant-garde genres, and movements in relation to world cinema culture. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

363 Chinese Literature in the Global Context: (Subtitled). 3 cr. U/G. Modern or contemporary Chinese literature; focus on a period, theme, genre, or movement in relation to literary cultures of other countries and regions or world events. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

365 Literatures and Cultures of the Americas: (Subtitled). 3 cr. U/G. Comparative study of the literatures and

cultural expressions of three or more national, ethnic, or linguistic traditions within North and South America and the Caribbean. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

381 Honors Seminar: (Subtitled). 3H cr. U. Critical study of a problem in comparative literary relations. | May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

410 Classical Backgrounds of Modern Literature: (Subtitled). 3 cr. U/G. Influences of classical literature and art upon modern literature. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

457 Topics in French and Francophone Studies in Translation: (Subtitled). 3 cr. U/G. Critical reading, lectures, and discussion of important works on a topic, genre, or historical period with particular emphasis on intellectual and cultural context. | CompLit 457 & French 457 are jointly offered; they count as repeats of one another. May be retaken w/chg in topic to 9 cr. max. Prereq: jr st or cons instr.

461 Film-Fiction Interaction: (Subtitled). 3 cr. U/G. Growth and development of film in conjunction with literary devices (narrative, setting, etc.), novels, plays, biographies, and poetry. Mutual influences of literary and cinematic arts. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

463 Literary Criticism: Major Authors. 3 cr. U/G. The development of critical theories from Plato to the present. | Prereq: jr st.

464 Seminar in Comparative Literary Criticism: (Subtitled). 3 cr. U/G. Principles and theories of literary criticism in a given period; major approaches to literature. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st, completion of OWC-A; or grad st.

489 Internship in Comparative Literature, Upper Division. 1-6 cr. U. Application of advanced principles of comparative literature in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in CompLit; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

533 Seminar in Trends in Modern Literature: (Subtitled). 3 cr. U/G. Development of important trends, ideas, and forms of world literature, and their contributions to cultural modernity. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

699 Advanced Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a CompLit faculty or instructional academic staff member. For further information, consult CompLit prog coord. | May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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COMPSCI Computer Science

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101 Introduction to PC Application Software. 3 cr. U. Introduction to software applications of the personal computer, including word processing, desktop publishing, spreadsheets, and databases.|Not open to CompSci students for cr.
Prereq: none.

111 Introduction to Unix. 1 cr. U. Introduction to basic user skills for Unix operating systems. File system structure and access control. Basic user commands. Text editing. Internet utilities.|Prereq: none.

112 Introduction to the Internet and the World Wide Web. 3 cr. U. Survey of the technologies that enable common Internet applications and their security/privacy issues. Topics include HTTP, TCP/IP, DNS, email protocols, search engines, encryption, digital signatures and malware.|Prereq: none.

113 Introduction to Web Document Production. 3 cr. U. An introduction to the computer languages used in World Wide Web documents. Design principles; techniques for form processing and inclusion of multimedia content.|Prereq: none.

132 Introduction to Computers and Programming. 3 cr. U. How computers work; communicating with computers; introductory programming in a high-level language; elementary problem solving.|Prereq: Level 30 on Math Placement Test or Math 105(C).

140 Introduction to the Computer Science Laboratories. 1 cr. U. Survey of the programming tools available in the Computer Science laboratory environment.|Prereq: CompSci 201(C)

150 Survey of Computer Science. 3 cr. U. A survey of computer science. Topics include data storage and manipulation, operating systems and networks, algorithms and data structures, programming languages, artificial intelligence, and computability.|Counts as repeat of CompSci 299 with similar topic. Prereq: none.

151 Introduction to Scientific Programming in Fortran. 3 cr. U. Design and implementation of computer programs in fortran; stress will be placed on applications to different fields of science and engineering.|Prereq: Math 231(C) or 226(C).

160 Introduction to Computer Game Design and Programming. 3 cr. U. An overview of computer game history; design concepts and considerations; implementation using a modern software development platform, such as

GameMaker.|Prereq: none.

202 Introductory Programming Using Python. 3 cr. U. Programming in Python. Basic control structures including recursion. Basic and library data types. Problem solving with objects. Writing classes. Basic software development skills.|Counts as repeat of CompSci 290 with similar topic. Pre-req: Level 30 on Math Placement Test, or a grade of C or better in Math 105 or 108.

240 Introduction to Engineering Programming. 3 cr. U. Problem solving with structured programming techniques using an engineering oriented programming language, such as MATLAB, including control structures, functions, arrays and matrices.|Prereq: Math Placement Level 40 or Math 116(P).

241 C Programming for Embedded Systems. 3 cr. U. Problem solving with structured programming techniques, using the C programming language; Topics include using Arrays & Pointers; Memory Management; Unions, Structures; Files & Low Level IO; Process's & Inter-process Communication.|Prereq: C or better in CompSci 240(P)

250 Introductory Computer Programming. 3 cr. U. Problem solving with structured programming techniques using an object-oriented programming language, including control structures, functions, arrays, vectors, and pre-defined objects.|Prereq: Math Placement level 30.

251 Intermediate Computer Programming. 3 cr. U. Problem solving with objects. Writing classes. Use of standard data structures. Basic software development skills including text analysis tools, debugging, and configuration management.|Prereq: Math Placement Level 40 or Math 116(P) or Math 211(P); C or better in CompSci 250(201)(P).

290 Introductory Topics in Computer Science: (Subtitled). 1-3 cr. U. Lectures on new introductory material in computer science. Variable-content course.|May be retaken to max of 6 cr w/chg in topic. Prereq: specific courses dependent on topic.

315 Introduction to Computer Organization and Assembly Language Programming. 3 cr. U. Introduction to number systems, arithmetic and Boolean operations. Digital computer organization. A specific computer system, assembly and machine language programming.|Prereq: Math Placement Level 40 or Math 116(P) or Math 211(P); CompSci 250(201)(P).

317 Discrete Information Structures. 3 cr. U. Introductory discussion of logic, proof techniques, sets, functions, relations, combinatorics, probability, and graphs.|Prereq: Math Placement Level 40; grade of C or better in CompSci 250(P).

318 Topics in Discrete Mathematics. 3 cr. U. Number theory topics related to cryptography; discrete structures including graphs, partial orders, Latin squares and block designs; advanced counting techniques.|Jointly offered with & count as repeat of Math 318. Prereq: a grade of C or better in CompSci 317(P) or Math 341(P).

337 System Programming. 3 cr. U. Introduction to the application programmer interface for a modern operating system. Overview of mechanisms for object oriented programming and memory management|Prereq: C or better in CompSci 251(P)

351 Data Structures and Algorithms. 3 cr. U. Programming in a structured, high-level, object-oriented language. Implementation of data structures and algorithms and their application.|Prereq: Math Placement Level 40 or Math 116(P) or 211(P); C or better in CompSci 251(P).

361 Introduction to Software Engineering. 3 cr. U. Introduction to core topics of software engineering including requirements analysis, object-oriented design, testing, and project management. Overview of ethical and social issues in computing.|Prereq: C or better in CompSci 351(P), satisfaction of GER English Composition competency req.

395 Social, Professional, and Ethical Issues. 3 cr. U. The social, professional and ethical issues that arise in the context of professional computing.|Prereq: soph st or cons instr.

417 Introduction to the Theory of Computation. 3 cr. U/G. Introduction to formal languages, grammars and automata. Finite state automata, pushdown automata, turing machines. Regular, context-free recursive and recursively enumerable languages. Decidability.|Prereq: jr st; grade of C or better in CompSci 317(P) or grade of C or better in Math 341(P).

422 Introduction to Artificial Intelligence. 3 cr. U/G. Introduction to core techniques and broad survey of AI. Topics include: Lisp, heuristic search, knowledge representation, planning, vision, learning.|Prereq: jr st; C or better in CompSci 317(217)(P); & CompSci351(252)(P).

423 Introduction to Natural Language Processing. 3 cr. U/G. Introduction to natural language processing programs and an overview of the field. Topics include syntactic frameworks, parsing, semantics, interpretation, and applications.|Prereq: jr st; C or better in CompSci 351(P).

425 Introduction to Data Mining. 3 cr. U/G. Algorithms for uncovering useful information from data. Topics include data exploration, association rules, clustering, supervised learning, and mining structured data (e.g., sequences or graphs)|Counts as repeat of CompSci 657 with same topic. Prereq: jr st; CompSci 251(P), Math 221(P) or Math 232(P)

431 Programming Languages Concepts. 3 cr. U/G. Examination of abstract features of languages. Study of syntactic and semantic models; design and programming in procedural, object-oriented, functional and logical languages. Implementation methods.|Prereq: jr st; grade of C or better in CompSci 351(252)(P).

444 Introduction to Text Retrieval and Its Applications in Biomedicine. 3 cr. U/G. Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.|Jointly offered with & counts as repeat of HCA 444, CompSci 744, & HCA 744. Prereq: jr st; CompSci 351(P) or HCA 442(P).

458 Computer Architecture. 3 cr. U/G. Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures.|Jointly offered with & counts as repeat of ElecEng 458. Prereq: jr st; ElecEng 354(P), C or better in CompSci 315(P) or ElecEng 367(P).

459 Fundamentals of Computer Graphics. 3 cr. U/G. Scan-line algorithms, object representation, homogeneous coordinates, geometric transformations, viewing curves, illumination models, interactive input methods, texture mapping.|Prereq: jr st; Math 232(P); CompSci 251(P).

469 Introduction to Computer Security. 3 cr. U/G. Privacy and authenticity of data and programs, communication, operating systems, network and database security, computer viruses, cryptography, private and public key cryptosystems, protocols.|Prereq: jr st; C or better in both CompSci 317(217)(P) & 251(P).

481 Server-side Internet Programming. 3 cr. U/G. Introduces students to the concept of server-side programming and web applications development. Topics include dynamic web site development, session management, security, and relational databases.|Prereq: jr st; one of CompSci 113 (P), InfoSt 320 (P), or Art 324 (P); C or better in CompSci 202(P) or CompSt 702(P)

482 Rich Internet Applications. 3 cr. U/G. Create standard-compliant web applications using client-side JavaScript and the Document Object Model.|Prereq: jr st; CompSci 361(P) or 481(P).

511 Symbolic Logic. 3 cr. U/G. First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.|CompSci 511, Math 511, & Philos 511 are jointly offered & count as repeat of each other. Prereq: jr st & either Philos 212(P) or 6 cr Math at the 300-level or above; or grad st.

520 Computer Networks. 3 cr. U/G. Layered network architecture, protocols, data transmission, local area networks, multiplexing and switching, routing flow and congestion control, internetworking, wireless networking, network

reliability and security.|Prereq: jr. st; CompSci 315(215)(P) or CompSci 458(P) or ElecEng 367(P).

522 Computer Game Design. 3 cr. U/G. Design of rules, environments, rewards, and punishments, Game metrics, Including artificial intelligence in games, Puzzle generation, Automatic design, Humanness test, Influence maps, Diversity, Unpredictability.|Counts as repeat of CompSci 657 with similar topic. Prereq: jr st; grade of C or better in CompSci 317(P).

530 Computer Networks Laboratory. 3 cr. U/G. Experimentation with Wired and Wireless Computer Networks Design. Data Link and MAC Protocols, LANs, WANs, Routing, Transport Layer Protocols, Congestion Control, Network Security, Network Management.|Prereq: jr st; CompSci 520(P).

535 Algorithm Design and Analysis. 3 cr. U/G. Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation.|Prereq: jr st; Math 211(P), 213(P), 221(P) or 231(P); C or better in both CompSci 317(P) & 351(P).

536 Software Engineering. 3 cr. U/G. Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming.|Prereq: jr st; grade of C or better in CompSci 251(P).

537 Introduction to Operating Systems. 3 cr. U/G. Process management including scheduling, concurrency, synchronization, and deadlock; memory management, I/O management and disk scheduling, file systems. Systems programming.|Prereq: jr st; CompSci 458(P) or ElecEng 458(P); CompSci 337(P).

537 (effective 09/04/2018) Introduction to Operating Systems. 3 cr. U/G. Process management including process creation, switching, multithreading, scheduling, communication and concurrency control; memory management including paging, segmentation and virtual memory; systems programming.|Prereq: jr st; CompSci 458(C) or ElecEng 458(C); CompSci 337(P).

545 FPGA Embedded CPUs & Firmware Development. 3 cr. U/G. Use of modern embedded system central processor units (CPUs) with integrated field-programmable gate arrays (FPGAs). Design and implementation of firmware for these devices.|Jointly offered with & counts as repeat of ElecEng 545. Prereq: jr st; ElecEng 367(P) & 457(P).

547 User-Centered Interaction Design. 3 cr. U/G. Introduction of human-computer interaction theories and design processes. Emphasis is on applied user experience (UX) design.|Jointly offered with & counts as repeat of InfoSt 547. Prereq: sr st.

552 Advanced Object-Oriented Programming. 3 cr. U/G. An advanced course in object-oriented programming. Abstraction; single and multiple inheritance; dynamic binding of functions; polymorphic types and operators; survey of object-oriented techniques.|Prereq: jr st; C or better in both CompSci 351(P) & 361(P).

557 Introduction to Database Systems. 3 cr. U/G. General database system concepts. Physical data organization. Data models and database systems. Database design theory. Query optimization. Transaction management. Logic and database.|Prereq: jr st; CompSci 315(215)(P) & 251(P) or equiv.

581 Web Languages and Standards. 3 cr. U. Introduction to languages and standards for Web applications, including markup, schema, style, transformation, and metadata languages. Document programming interfaces. Emphasis on programming language principles.|Prereq: jr st; CompSci 431(P)& 417(R).

595 Capstone Project. 4 cr. U. Students will integrate their knowledge of the undergraduate computer science curriculum by implementing a significant computer science team project.|Prereq: sr st, CompSci 361(P), 458(C), 535(C), 537(C).

595 (effective 09/04/2018) Capstone Project. 4 cr. U. Students will integrate their knowledge of the undergraduate

computer science curriculum by implementing a significant computer science team project. |Prereq: sr st, CompSci 351 (P), CompSci 361 (P), and credit in at least 6 credits of 400 or higher CompSci courses.

599 Senior Thesis. 3 cr. U. Independent scholarly research in Computer Science supervised by a faculty member. |Prereq: sr st & cons instr.

654 Introduction to Compilers. 3 cr. U. Fundamentals of compiler construction for modern programming languages. Syntax analysis, table organization, storage administration, semantic routines and code generation |Prereq: jr st; CompSci 431(P), 655(C).

655 Compiler Implementation Laboratory. 3 cr. U/G. Implementation of compiler phases: scanner, parser, semantic analysis; code generation and optimization. |Prereq: jr st, CompSci 431(P); 654(C) or 754(C).

657 Topics in Computer Science: (Subtitled). 1-4 cr. U/G. Lectures on recent advances in computer science. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

658 Topics in Applied Computing: (Subtitled). 1-4 cr. U. Lectures on recent advances in applied computing. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered. |May be retaken w/chg in topic. Prereq: jr st.

699 Independent Study. 1-3 cr. U/G. |May be retaken to max of 6 cr by undergraduates. Prereq: jr st; cons instr.

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COUNS Counseling

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297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

403 Overview of Counseling Skills. 3 cr. U. An applied course which introduces students to the basic interpersonal skills required in the counseling process. Designed for students interested in counseling and related fields.|Prereq: jr st

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st, cons instr, acceptance for Study Abroad Prog.

579 Current Topics in Counseling: (Subtitled). 1-3 cr. U/G. Specific topic and prerequisites announced in Schedule of Classes each time course is offered.|May be retaken w/chg in topic to max of 9 cr. Prereq: jr st

600 Introduction to Clinical Mental Health Counseling. 3 cr. U/G. Survey of history of counseling; systems of counseling; credentialing in community counseling, counseling techniques; behavior modification and behavioral counseling; group processes in counseling.|Prereq: jr st

602 Introduction to School Counseling. 3 cr. U/G. Survey of history of school counseling, counseling techniques, systems of counseling, group counseling in schools.|Prereq: jr st

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CRM JST Criminal Justice

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105 Orientation for Social Welfare Students. 1 cr. U. Prepares students to participate in UWM's educational process and to explore career choices in social welfare.|Counts as repeat of Crm Jst 88. Jointly offered with & counts as repeat of Soc Wrk 105. Prereq: fr st only.

110 Introduction to Criminal Justice. 3 cr. U. Survey of the present structure, philosophy, procedures, future prospects of police, courts, corrections, and of the penal system in American society.|Prereq: none.

150 Introduction to Research in Criminal Justice. 1 cr. U. Provides students with skills in legal and library research pertinent to topics in criminal justice, and introduces students to accepted styles of technical writing.|Prereq: none.

271 Police Process. 3 cr. U. An interdisciplinary analysis of the role of police in a democratic society; emphasis on historical development of police institution, cultural attributes, accountability, occupational socialization, police-behavior, and selected current issues.|Prereq: Crm Jst 110(P).

273 Correctional Process. 3 cr. U. Analysis of role of corrections in American criminal justice. Emphasis on describing and assessing the effectiveness of correctional models in prisons, jails, probation, and parole.|Prereq: Crm Jst 110(P).

275 Criminal Court Process. 3 cr. U. Examination of criminal judicial process from setting bail through sentencing, role of courts within criminal justice. Analysis of structure, professional roles, and procedural law governing processing.|Prereq: Crm Jst 110(P).

281 Dead Men Do Tell Tales: An Introduction to Forensic Science. 3 cr. U. A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.|Jointly offered with & counts as repeat of Anthro 281, Chem 281, & BMS(C L Sci 281). Prereq: none.

285 Medicolegal Death Investigation. 3 cr. U. Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.|Jointly offered with & counts as repeat of Anthro 285, Chem 285, & BMS(C L Sci) 285. Prereq: none.

291 Current Issues in Criminal Justice: (Subtitled). 1-3 cr. U. Selected current issues in criminal justice.|May be retaken with change in topic to max of 6 cr. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken with change in topic. Prereq: acceptance for Study Abroad Prog.

300 Criminal Process. 3 cr. U. Analysis of the problems of the criminal justice system in separating the guilty and the innocent. Discussion of constitutional issues and technical procedural problems involved. |Prereq: jr st; Crm Jst 110(P).

301 Criminal Law. 3 cr. U. Principles, theories and doctrines of the law of crimes with a unified study of legal defense. |Prereq: jr st; Crm Jst 110(P).

304 Gangs and Organized Crime. 3 cr. U. Provides an overview of domestic and international gangs and organized crime networks. The challenges these organizations bring to the criminal justice system are also discussed. |Counts as repeat of Crm Jst 291 with same topic. Prereq: none

305 (295) Crime and Criminal Justice Policy. 3 cr. U. Examination of criminal justice policy through analysis of relevant theory, research findings, and implications. |Prereq: Crm Jst 110(P).

310 Race, Ethnicity, and Justice. 3 cr. U. Issues of race and ethnicity in the criminal justice system. Emphasis on research examining social construction of race and ethnicity. |Counts as repeat of Crm Jst 291 with same topic. Prereq: none.

311 Field Experience Practicum. 3 or 6 cr. U. Placement in a faculty unit or project in a criminal justice setting, either public or private. Minimum 120 hours per semester under supervision. |May be retaken to 6 cr max. Prereq: jr st; Crm Jst 110(P); writ cons instr. Regis priority for students admitted to Crm Jst major.

340 Policing the Streets. 3 cr. U. Analysis of policing from the perspective of the front line police officer, including societal expectations, legality, use of force, discretion, and psychological aspects. |Counts as repeat of Crm Jst 291 w/same topic. Prereq: none

350 White Collar Crime. 3 cr. U. The nature and extent of white collar crime in the United States, especially the harmful and criminal acts of the rich and powerful |Prereq: none.

370 Criminal Justice Administration. 3 cr. U. Analysis of operational and administrative issues in criminal justice drawn from organizational theory, management theory; discussion of organizational technology, structure, environment; and organizational assessment. |Prereq: jr st; Crm Jst 110(P).

380 Victimology. 3 cr. U. An overview of conceptual and substantive issues in victim centered theory and research, including past, present and future models of victim participation in criminal justice. |Prereq: jr st; Crm Jst 110(P).

385 Women and Criminal Justice. 3 cr. U. A study of female crime and delinquency, and how the criminal justice system responds to female crime. |Prereq: none.

386 Criminal Intelligence. 3 cr. U. Contemporary responses to police problems, the tenets of various police styles and tactical crime analysis. |Counts as repeat of Crm Jst 592 with same subtitle. Prereq: Crm Jst 110(P).

410 Comparative Criminal Justice. 3 cr. U. Comparative study of criminal justice components of selected countries. Emphasis will be on cultural influences on the principles and operation of criminal justice systems. |Prereq: jr st or cons instr.

416 Domestic Violence Research. 3 cr. U. An examination of the criminal justice response to domestic violence related incidents. Theoretical and practical issues are explored in the context of physical child abuse, spousal battering, and elder abuse. |Prereq: none.

420 Violence and the Criminal Justice System. 3 cr. U. Historical and contemporary study of violent crime and its relationship to the criminal justice system.|Prereq: jr st; Crm Jst 110(P) & 150(P).

421 Cybercrime. 3 cr. U/G. Legal issues associated with cybercrimes, including response, investigation and prosecution.|Counts as repeat of Crm Jst 592/970 with same topic. Prereq: jr st.

430 Punishment. 3 cr. U. Critical examination of theoretical justifications of punishment, corresponding sentencing structures, and recent empirical evidence addressing the utilitarian aims of punishment. Seminar.|Prereq: jr st or cons instr.

460 The Federal System: The FBI, Courts and Corrections. 3 cr. U. Aspects of the federal criminal justice system; how law enforcement, courts, and corrections at the federal level are organized as well as special topics within these areas.|Prereq: none.

480 Criminal Evidence and Investigation. 3 cr. U. Examination of the criminal investigation process with emphasis on theory of investigation, role of criminal evidence, and effectiveness of the process.|Prereq: Crm Jst 110(P).

481 Criminalistics. 3 cr. U. Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.|Anthro 481, Chem 481, BMS(C L Sci) 481, and Crm Jst 481 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert program; Crm Jst/Anthro/Chem/BMS(C L Sci) 281(P); Crm Jst 480(P).

490 Drugs, Crime and Criminal Justice. 3 cr. U/G. Overviews illicit drug use, the relationship between drugs and crime, and responses of criminal justice agencies to illegal drug use.|Counts as repeat of Crm Jst 592/970 w/same topic. Prereq: jr st.

497 Study Abroad: (Subtitled). 1-6 cr. U/G. Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic to max of 9 cr. Prereq: jr st; acceptance for Study Abroad Prog.

510 Introduction to Crime Analysis. 3 cr. U. Introduction to crime analysis and crime mapping. Examines techniques, theory, data collection ethods, statistics used, history of and career opportunities in crime analysis.|Counts as repeat of Crm Jst 592 w/same topic. Prereq: Crm Jst 110(P).

520 Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS. 3 cr. U/G. Examines theories and applications to analyze data. Approaches include crime mapping and spatial analysis; strategic, administrative, and tactical crime analysis. Other methods are also covered.|Prereq: jr st; Crm Jst 110(P).

530 Data Driven Policing Strategies and Police Intelligence. 3 cr. U. Examines data driven policing strategies and police intelligence. Approaches covered include: Problem-oriented Policing (POP), Smart Policing, Intelligence-led Policing, and Place-based Policing.|Prereq: Crm Jst 110(P).

585 Internship in Forensic Toxicology. 1-3 cr. U. Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.|Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

589 Internship in Death Investigation. 1-3 cr. U. Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.|Anthro 589, Chem 589, BMS(C L Sci) 589 & Crm Jst 589 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci certif prog; Crm Jst/Anthro/Chem/BMS(C L Sci) 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver.

591 Senior Thesis. 1-3 cr. U. Thesis written under supervision|Prereq: sr st, 2.5 GPA; writ cons instr & dept.

592 Critical Issues in Criminal Justice: (Subtitled). 1-3 cr. U. Explores interests of special concern in criminal justice. Specific credits announced in Schedule of Classes whenever course is offered. | May be retaken to max of 6 cr with change of topic. Prereq: jr st.

594 Internship in Forensic Science. 1-3 cr. U. On-site shadowing of evidence analyst at State Crime Laboratory. | Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

599 Independent Reading. 1-3 cr. U. Reading may be in any field for which the student has an adequate background. | May be retaken to max of 6 cr. Prereq: sr st; writ cons instr & coord; gpa 2.5 or above.

662 Methods of Social Welfare Research. 3 cr. U. Analysis of methods used in social welfare research and problems in project design and programming. Distinctive characteristics of investigations directed to planning, administrative, and scientific objectives. | Prereq: jr st.

663 Criminal Justice Capstone Seminar. 3 cr. U. Synthesis of criminal justice theories, empirical research and program creation and implementation. | Prereq: jr st.; completion of OWC-A GER.

671 Juvenile Justice. 3 cr. U/G. Structure of juvenile justice system -- police, courts, and corrections; analysis of structure of subsystems of the juvenile justice process; introduction to literature and research. | Prereq: jr st or cons instr.

680 Jails. 3 cr. U/G. The primary purpose is to develop a comprehensive understanding of the role of the jail in contemporary society. | Prereq: jr st; Crm Jst 110 (P).

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CURRINS Curriculum and Instruction

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110 Reading Proficiency for College Students I. 1 cr. U. Presentation of techniques for the acquisition of basic reading skills. Emphasis on vocabulary building, text organizational structures, and comprehension.|Prereq: completion of Nelson-Denny reading test.

111 Introduction to College Reading. 2 cr. U. Understanding and application of college level reading skills.|Counts as repeat of CurrIns 279 with same topic. Prereq: none.

112 College Reading: (Subtitled). 1 cr. U. Read and respond to text and essays by summarizing information, examining perspective, comparing and contrasting ideas and evaluating arguments.|May be retaken to max of 3 cr. Prereq: none.

140 Field Experience with Families & Communities. 1 cr. U. Field experience in local agencies providing services to families.|Prereq: CurrIns 312(C) or cons instr.

233 Introduction to Children's and Young Adult Literature. 3 cr. U. Introductory survey will focus on the literary merit and cultural contexts of works written for children and young adults.|Prereq: none.

234 Teachers as Writers. 3 cr. U. Focus on various rhetorical modes of writing, stylistic strategies, and grammatical constructions from a teaching perspective.|Prereq: OWC Part A.

240 Field Experience with Dual Language Learners. 2 cr. U. Field experience with dual language learners in various settings.|Prereq: CurrIns 140(P) & 501(C); or cons instr.

250 1st-Year Student Seminar: Early Childhood Education. 1 cr. U. Introductory seminar for first-year and transfer Early Childhood Education intended students.|Counts as repeat of CurrIns 279 with same topic. Prereq: none.

279 Current Topics in Curriculum and Instruction: (Subtitled). 1-3 cr. U. Special topics for undergraduates will be offered from time to time. See Schedule of Classes.|Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

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- 300 Introduction to Teaching: Colloquium and Fieldwork. 3 cr. U.** Introduction to the teaching profession and teaching in urban schools. Provides an overview of educational, multicultural, social, economic, and political issues that influence urban schools. |Counts as repeat of CurrIns 100. Prereq: soph st.
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- 301 Infants and Toddlers: Curriculum and Teaching. 3 cr. U.** Approaches to infant/toddler care and education; instructional material and techniques to foster infant/toddler development; strategies for administering and managing learning environments. |Prereq: soph st & admis to School of Educ; or cons instr.
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- 302 Curriculum Design in Early Childhood. 3 cr. U.** Curriculum design and unit development in pre-primary and early primary classrooms. |Prereq: jr st & admis to School of Educ; or cons instr.
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- 306 MCEA Clinical Experience, Grades 1-3. 1 cr. U.** Clinical experience with children in grades 1-3. Focus on literacy tutoring with individual students and in small groups. |Prereq: jr st, admis to SOE, CurrIns 536(C), & 556(C); or cons instr.
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- 307 MCEA Clinical Experience, Grades 4-8. 2 cr. U.** Clinical experience focusing on instructional practices in grades 4-8. |Prereq: jr st, admis to SOE, CurrIns 306(P), & 557(C); or cons instr.
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- 310 Curriculum for the Pre and Early Adolescent. 1-4 cr. U.** The determination of curriculum and instructional approaches appropriate for the pre and early adolescent age group. |Prereq: admis to School of Educ.
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- 312 Models and Issues for Early Childhood Education. 3 cr. U.** Overview of content, methods, and issues pertaining to the organization of early childhood programs for developmentally-diverse, monolingual and bilingual learners. |Prereq: CurrIns 140(C).
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- 313 Teaching Economics in the Social Studies Curriculum. 2 cr. U.** Approaches to teaching economics in the social studies curriculum. Latest research and teaching practices. A study of cooperative enterprises to meet Wisconsin's statutory requirement. |Prereq: Econ 103(P) or Econ 104(P).
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- 314 Field Work I in Early Childhood Education - PreK/K. 1 cr. U.** Field experience with children in prekindergarten or kindergarten. Planning and implementation of learning opportunities in the classroom. |Prereq: jr st, CurrIns 302(C)
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- 316 Field Work in Secondary Reading in Content Areas, Grade 6-12: (Subtitled). 3 cr. U.** Field-based application of subject matter methods and instructional strategies in vocabulary development and comprehension, and assessment of student understanding of subject matter texts. |Cr/no cr only. Prereq: jr st; admis to School of Educ; CurrIns 545 or equiv; & conc reg in subject matter methods course.
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- 320 Introduction to Critical Media Literacy. 1 cr. U.** Introduction to media literacy and applications of instructional technology to support student learning. |Prereq: admis to SOE or cons instr.
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- 321 Introduction to the Teaching of Social Studies. 1 cr. U.** Methods and content introducing the teaching of social studies in secondary schools. |Prereq: jr st; admis to School of Educ.
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- 323 Teaching of Social Studies: (Subtitled). 1-4 cr. U.** An examination of the purposes of social studies education in the schools with work in content selection, educational process and the nature of inquiry. |Prereq: jr st; admis to School of Educ.
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- 325 Instructional Strategies for Using the Computer. 1 cr. U.** An examination of the instructional uses of computers. Focus on instructional strategies, software evaluation, and management of student learning. |Prereq: jr st; admis to School of Educ.
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- 326 Environmental Education for Teachers. 1 cr. U.** Study of environmental issues and problems affecting local, state, and national resources. Fulfills WI DPI certification required for teachers. |Prereq: jr st, admis to School of Educ.

327 Teaching of Science in the Elementary School. 1-4 cr. U. The objectives, materials, and techniques of teaching elementary science. |May not be retaken for degree cr. Prereq: jr st; admis to School of Educ; CurrIns 306(P).

328 Introduction to Teaching Science in Middle and High School. 3 cr. U. Exploration of science teaching through developing some foundational teaching strategies and working with students in middle and high schools. |Prereq: none.

330 Teaching of Mathematics: Early Childhood. 3 cr. U. Methods and curriculum for facilitating the learning of mathematics with children ages 3-8. Emphasis on number concepts, problem solving, and intuitive geometry. |Prereq: jr st, admis to School of Educ, Math 176 with grade of C or better, & CurrIns 302(P); or cons instr.

331 Teaching of Mathematics, Elementary School. 3 cr. U. Methods and curriculum for teaching mathematics in grades 1-6. Emphasis on whole numbers, computing devices, fractions/decimals, geometry, measurement, statistics, and problem-solving. |Prereq: jr st; admis to SOE; CurrIns 306(C) & Math 176(P) with grade C or better; or cons instr

332 Teaching of Mathematics: Middle School. 2-3 cr. U. Methods and curriculum for the teaching of mathematics in the middle school. Emphasis on advanced arithmetic topics, number theory, probability and statistics, geometry, measurement, and applications. |Prereq: jr st; admis to School of Educ; CurrIns 331(P).

333 Introduction to Teaching, Grades 1-8. 3 cr. U. Introduction to the teaching profession in grades 1-8 in urban setting. Overview of educational, multicultural, social and economic, and political issues that influence urban schools. |Prereq: Ed Psy 330(C) or cons instr.

334 Teaching of Modern Foreign Languages. 1-4 cr. U. The study of modern foreign language; application of teaching methods to the teaching of modern foreign languages. |Prereq: jr st; admis to School of Educ.

335 Instructional Computing I for Teachers. 1 cr. U. Introduction to instructional computing for teachers with emphasis on primary grades. |Prereq: admis to Collaborative Teacher Ed Prog for Urban Communities.

336 Instructional Computing II for Teachers. 1 cr. U. Instructional computing for teachers with emphasis on intermediate grades. |Prereq: admis to MCEA prog.

337 Instructional Computing III for Teachers. 1 cr. U. Instructional computing with emphasis on electronic portfolio development. |Prereq: admis to MCEA (Middle Childhood through Early Adolescence) program & CurrIns 336(P).

338 Teaching of Science in Early Childhood. 3 cr. U. Objectives, materials, and teaching methods for science in Early Childhood. |Prereq: jr st, admis to School of Educ, CurrIns 540(C), & 302(P); or cons instr.

340 Field Experience in Preschool and Kindergarten Classrooms. 2 cr. U. Field experience with children in prekindergarten/kindergarten. Focus on early literacy lesson planning. |Prereq: CurrIns 240(P), 502(C) & admis to School of Educ; or cons instr.

343 Teaching of Reading. 1-4 cr. U. An introductory course in the teaching of reading. Involves fieldwork. Designed for students without teaching experience. |Prereq: admis to School of Educ or cons instr.

375 Using Technology for Teaching and Learning. 1 cr. U. Introduce students to various forms of technology used in the PK-12 classrooms. |Jointly offered with and counts as repeat of ExcEduc 375. Prereq: none.

376 Understanding and Developing the edTPA. 1 cr. U. In-depth overview of all components of the edTPA; practice of skills including video recording, uploading and compressing video, writing summaries. |Jointly offered with and counts as repeat of ExcEduc 376. Prereq: none.

377 Wisconsin Foundations of Reading. 1 cr. U. Foundational literacy assessment and instruction for diverse learners to prepare for the Wisconsin Foundations of Reading test. Focus on reading development grades PreK-8. |Jointly offered

with and counts as repeat of ExcEduc 377. Credit/No Credit only. Prereq: none.

378 Implementing the edTPA in a Clinical Setting. 1-4 cr. U. In-depth overview of all components of the edTPA. Opportunities to engage in learning activities and assignments that will increase understandings of the edTPA requirements. | May be retaken for credit. Credit/no credit only. Prereq: none.

380 Teaching Music in Elementary Schools I, II. 2 cr. U. Methods, materials and observation of teaching vocal music in grades n-6. Includes junior participating experience. | Prereq: jr st & admis to school of educ or cons instr.

400 Field Work in Curriculum and Instruction: (Subtitled). 1-6 cr. U. Credit value to be determined by faculty advisor and student, on the basis of 1) the nature of the field work project, 2) the amount of time the student will spend with the project, and 3) relevant evaluation criteria to be agreed upon in advance by the student and his advisor. | May be retaken for cr. Prereq: jr st.

401 Seminar for Student Teaching. 1 cr. U. Collaboration around solving problems encountered in urban teaching through a structured inquiry format with others involved in the student teaching experience. | Prereq: jr st; admis to School of Educ.

402 Student Teaching in Nursery and Kindergarten. 6 cr. U. | Prereq: jr st; admis to School of Educ.

404 Student Teaching in Primary Grades. 6 cr. U. | Prereq: jr st & admis to student teaching.

406 Advanced MCEA Clinical Experience. 4 cr. U. Advanced clinical experience focusing on instructional practices in grades 1-8. | Prereq: jr st, admis to SOE, & CurrIns 558(C); or cons instr.

407 Student Teaching in Middle Childhood-Early Adolescence. 5 or 9 cr. U. Full time student teaching in grades 1-8. | Prereq: jr st, admis to student teaching, CurrIns 471(C) & 406(P); or cons instr.

415 Preliminary Student Teaching: (Subtitled). 1-6 cr. U/G. Initial Student Teaching Experience for EAA Licensure Candidates. | Prereq: jr st; eligibility for student teaching & dept req.

423 Student Teaching in Social Studies. 10-12 cr. U/G. Final Student Teaching Semester for EAA Social Studies Licensure Candidates. | Prereq: jr st; eligibility for student teaching & dept req.

427 Student Teaching in Science. 2-6 cr. U. | Prereq: jr st; eligibility for student teaching & dept req.

428 Student Teaching Science Seminar. 3 cr. U/G. Seminar to support secondary science student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments. | Prereq: jr st; eligibility for student teaching.

430 Student Teaching in Computer Science. 2-6 cr. U. | Prereq: jr st; eligibility for student teaching & dept req.

431 Student Teaching in Mathematics. 2-6 cr. U. | Prereq: jr st; eligibility for student teaching & dept req.

432 Student Teaching Mathematics Seminar. 3 cr. U/G. Seminar to support secondary mathematics student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments. | Prereq: jr st or grad st; eligibility for student teaching.

437 Student Teaching in World Language- Minor: (Subtitled). 2-12 cr. U. Students pursuing a minor in a World Language: EC, MC-EA, EA-A, or EC-A. | Prereq: jr st; eligibility for student teaching & dept req.

438 Student Teaching in World Language: Early Childhood-Adolescence. 2-12 cr. U. Students pursuing an EC-A major in a World Language. | May be retaken to max of 12 cr. Prereq: jr st; eligibility for student teaching & dept req.

440 Field Experience in the Primary Grades. 2 cr. U. Field experience with children in primary grades. Focus on literacy lesson planning. |Prereq: jr st, admis to School of Educ, CurrIns 340(P), & CurrIns 504(C); or cons instr.

442 Student Teaching in Bilingual Education. 2-12 cr. U. Students pursuing a supplemental certification in bilingual: EC, MC-EA, EA-A, or EC-A. |May be retaken to 12 cr max. Prereq: jr st & admis to student teaching.

443 Student Teaching in English as a Second Language: Minor. 2-12 cr. U. Students pursuing a minor in ESL EC, MCEA, EAA, or ECA. |May be retaken to 12 cr max. Prereq: jr st, eligibility for student teaching & dept req.

444 Student Teaching in ESL- Early Childhood-Adolescence: (Subtitled). 2-12 cr. U. Students pursuing an EC-A ESL major. |May be retaken to 12 cr max. Prereq: jr st; eligibility for student teaching & dept req.

445 Seminar in Language Education. 3 cr. U. Provides student teachers in the Language Education program support to reflect on their student teaching experience and successfully complete the program portfolio. |Prereq: Admis to School of Educ; CurrIns 437(C), 438(C), 442(C), 443(C), or 444(C).

452 Student Teaching in English. 2-6 cr. U. |Prereq: jr st; eligibility for student teaching & dept req.

470 Professional Urban Teaching Linking Seminar: (Subtitled). 2 cr. U. Facilitates professional growth and development of teachers through structured inquiry, professional collaboration to solve problems in urban teaching, and personal assessment of progress using portfolios. |May be retaken/chg in topic to max of 8 cr. Prereq: jr st; admis to School of Educ.

471 Professional Seminar 4: The Effective Urban Educator. 2 cr. U. Integrated study of curriculum and classroom management to maximize children's learning in grades 1-8. |Prereq: jr st, admis to SOE, & CurrIns 407(C); or cons instr.

497 Study Abroad. (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: jr st, cons instr, acceptance for Study Abroad Prog.

499 Independent Reading: (Subtitled). 1-4 cr. U. |May be retaken. Prereq: jr st.

500 Workshop in Curriculum and Instruction: (Subtitled). 1-6 cr. U/G. Development of teacher growth through problem solving, self-expression, group thinking, and individual study. Individuals or small groups work on problems growing out of their professional needs. Specific topics and any additional prerequisites will be announced in Timetable each time the course is offered. |May be retaken w/chg in topic. Prereq: jr st or grad st.

501 Language Acquisition for Children of Diverse Backgrounds. 3 cr. U. Examination of theories of language acquisition and development for children of diverse backgrounds. Teaching methods for developing literacy and biliteracy. Methods of sheltered language instruction. |Prereq: soph st, admis to School of Educ, CurrIns 312(P) & 240(C); or cons instr.

502 Emergent Literacy and Biliteracy in the Early Childhood Classroom. 3 cr. U. Study of literacy and biliteracy development of young children and teaching methods to support this development in the early childhood classroom. |Prereq: jr st, admis to School of Educ, CurrIns 501(P) & CurrIns 340(C); or con instr.

503 Assessment Issues in Language Education. 3 cr. U/G. Approaches to assessment of first and second language learning including rationale, traditional and alternative strategies, interpretation of results for placement, instruction, and program evaluation. |Prereq: jr st or instr cons; admis to School of Educ or grad st.

504 Methods for Biliteracy and Language Arts in Primary Grades. 3 cr. U. Study of literacy and biliteracy development of young children and teaching methods to support this development in the primary grades. |Prereq: jr st, admis to SOE, CurrIns 502 (P), CurrIns 440(C); or cons instr.

505 Collaborative Relationships with Families, Schools and Communities. 3 cr. U. Theory and strategies for developing effective family-school relationships, with a focus on urban issues. Topics include: teacher-family communications, family education and support, community resources.|Prereq: jr st; admis to SOE; or cons instr.

508 Language and Urban Schooling. 3 cr. U/G. General overview of the major issues in both first and second language acquisition, and the relevant implications for urban schooling.|Prereq: jr st & admis to School of Educ, or grad st; or cons instr.

509 Reading and Social Welfare. 1 cr. U/G. Reading process, characteristics of effective reading programs and bibliotherapy as they relate to the work of school social workers.|Prereq: admis to Helen Bader School of Social Welfare.

510 Cooperative Strategies for Pre and Early Adolescents. 1-3 cr. U/G. Teaching and management strategies consistent with fostering productive learning environments for pre and early adolescents.|May be retaken to max of 3 cr. Prereq: admis to School of Educ, or grad st.

511 Curriculum and Guidance for Social -Emotional Learning. 3 cr. U. Study of classroom teaching strategies and curriculum and guidance methods designed to enhance children's social/emotional learning.|Prereq: jr st; admis to School of Educ.

512 Reflective Practice in Early Childhood Teaching and Learning. 3 cr. U. Examination of connections between the urban context, ways of understanding diversity, and professional practice in early childhood classrooms, including implications of pedagogy, curriculum, and instruction.|Prereq: soph st, admis to SOE & CurrIns 312(P); or cons instr.

514 Field Work II in Early Childhood Education-Primary. 1 cr. U. Field experience with children in grades 1 through 3. Completion of assignments associated with CurrIns 504 while gaining practical experience in the classroom.|Prereq: jr st, CurrIns 502(P), & 504(C)

516 Field Work in Middle School. 2-6 cr. U/G. Implementation of strategies learned in the 6-12 teacher education program|May be taken to max of 6 cr. Prereq: admis to School of Educ or grad st.

518 Science Methods I: Middle/Secondary Methods and Fieldwork. 3-6 cr. U/G. The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science.|May not be retaken for cr. Prereq: admis to School of Educ, or grad st.

519 Science Methods II: Middle/Secondary Methods and Fieldwork. 3-6 cr. U/G. The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science. Includes fieldwork in middle/secondary school.|May not be retaken for cr. Prereq: admis to School of Educ or grad st.

520 Developing Mathematical Thinking in Young Children. 3 cr. U/G. Teaching and learning of mathematics, grades pre k-3. Emphasis on problem-solving, communication, developmentally appropriate experiences with whole numbers, fractions, geometry, measurement, and data analysis.|Prereq: jr st; teaching experience.

522 Economic Education. 3 cr. U/G. Approaches to teaching economic principles. Applications of economic reasoning to current problems. Curricular implications for school programs, grades K-12.|Prereq: jr st.

523 Current Issues and Practices in the Teaching of Social Studies. 3 cr. U/G. Examination of current issues in social studies curriculum reform. Emphasis on the latest research and teaching practices.|Prereq: CurrIns 323 or grad st.

525 Environmental Resources Workshop: (Subtitled). 1-3 cr. U/G. Methods and curriculum for teaching about environmental problems. Topic-specific prereq will be published in the Schedule of Classes|May be retaken w/chg in topic to max of 6 cr. Prereq: jr st.

527 Science in the Elementary School. 3 cr. U/G. Study of science curriculum materials; instructional procedures;

analysis of pupil learning modes; experience with science equipment; teaching of science as inquiry; individual problems and projects.|Prereq: jr st & admis to School of Educ; or grad st.

530 Workshop in Computer Instruction in the Schools. 3 cr. U/G. Examination, construction and evaluation of computer extended instruction. Emphasis on participant development of curriculum materials and instructional procedures centered on pupil development.|Not open to students who have cr in Ed Psy 530, which is identical to CurrIns 530. Prereq: jr st; cons instr.

531 Teaching of Computer Science. 3 cr. U/G. Methods and curriculum for the teaching of computer science in the secondary schools. A brief introduction to management of a computer laboratory.|Prereq: jr st & admis to School of Educ & CompSci 351; or grad st.

532 Teaching of Mathematics: Secondary. 3 cr. U/G. Methods and curriculum for the teaching of mathematics in middle and high schools.|Prereq: jr st; admis to School of Educ.

533 Foreign Language Workshop. 1-4 cr. U/G. Analysis of current developments and changes in foreign language education. Critical examination of specific problems, conflicts, and trends -e.g. in teaching basic skills, teaching culture and literature, use of audio-visual materials and the language laboratory; the effect of current competition and foreign language student teaching supervision. Study of curriculum revision and of instructional materials. Individual curriculum projects or research possibilities.|Prereq: jr st & cons dept. Not

534 Instructional Strategies in Early Childhood Education. 3 cr. U. Study of instructional strategies and practices in the early childhood classroom to promote effective teaching and engaged learning for all children.|Prereq: jr st & admis to SOE; or cons instr.

535 Methods and Techniques in Affective Education. 1-3 cr. U/G. Basic principles and practical techniques for instruction in the affective domain are modeled and practiced. Although process oriented, the course does not neglect theoretical frameworks.|Prereq: jr st.

536 Literacy 1: Assessing and Teaching Early Literacy. 3 cr. U/G. Addresses early reading and language arts assessment and instruction with diverse learners. Includes concurrent clinical experience.|Prereq: jr st, CurrIns 306(C) & admis to SOE; or cons instr.

537 Literacy 2: Assessing and Teaching Literacy through Early Adolescence. 3 cr. U/G. The role of reading and language arts assessment and instruction with diverse learners in 1st-8th grade classrooms with particular emphasis on comprehension, vocabulary, and disciplinary literacy.|Prereq: jr st & admis to SOE; or cons instr.

538 Literacy 3: Introduction to New Literacies. 3 cr. U/G. Examines research based processes for literacy instruction, effects of and approaches for the use of technology on literacy development.|Prereq: jr st, admis to SOE, & CurrIns 537(P); or cons instr.

540 Advanced Field Experience in Early Childhood Education. 3-6 cr. U. Advanced field experience, culmination of pre-student teaching experiences.|May be retaken to 9 cr max. Prereq: sr st, admis to SOE & CurrIns 440(P); or cons instr.

541 Principles and Methods of Teaching ESL. 3 cr. U/G. Techniques of introducing ESL at the K-12 level. Teaching of basic language skills, especially listening comprehension and speaking. Curriculum materials and current literature in ESL. Micro teaching provided.|Prereq: jr st and admis to SOE; or cons instr

542 History and Politics of Second Language Education. 3 cr. U/G. General overview of the history, politics, legal and social contexts of language education in the United States today.|Prereq: jr st or cons instr.

543 Developing Biliteracy. 3 cr. U/G. Stresses the practical application of theory and research on language development in a bilingual setting. The development of primary language skills is emphasized.|Prereq: jr st or cons instr;

admis to School of Educ, or grad st.

544 Improving the Teaching of Reading: (Subtitled). 1-3 cr. U/G. Focuses on instructional problems of teachers in teaching developmental reading. Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered. | May be retaken w/chg in topic to max of 6 cr. Prereq: jr st; teaching experience.

545 Reading in the Content Areas: Middle, Junior, and Senior High School. 3 cr. U/G. Survey of reading process and developmental reading in the middle, junior and senior high school. Emphasis on application of instructional techniques relating the use of reading within subject matter fields. | Prereq: jr st; admis to School of Educ or grad st.

546 Language, Content, and Comprehensible Input. 3 cr. U/G. Theories and methods for delivering content to second language learners. Models of sheltered and learning strategies instruction will be explored. | Prereq: jr st or cons instr.

547 Curricular Applications of the Internet. 3 cr. U/G. Analysis and construction of internet based instruction focusing on the use of interactive media in grades 1-12. | Prereq: jr st & admis to School of Educ, or grad st.

550 Using Children's Literature to Explore Latin Am/Latino Cultural Heritage. 3 cr. U/G. Using children's books that explore Latin American/Latino cultural heritage. | Counts as repeat of CurrIns 579 with similar topic. Prereq: jr st.

551 Teaching of Language Arts. 1-4 cr. U/G. Survey of curriculum, methods and materials in skills and expressive areas of language, linking theory with practical instructional strategies in both preschool and elementary settings. | Prereq: jr st & admis to School of Educ; or grad st.

552 Teaching Reading, Grades 1-3. 3 cr. U/G. Foundations of reading and instructional strategies which support the development of literacy learning in the primary grades (grades 1-3) with concurrent teaching field experience. | Counts as repeat of 3 cr of CurrIns 506. Prereq: jr st, Admis to School of Educ; or grad st.

553 Teaching Language Arts and Children's Literature, Grades 1-3. 3 cr. U/G. Language arts instruction and children's literature in the middle childhood grades (grades 1-3) with concurrent teaching field experience. | Counts as repeat of 3 cr of CurrIns 506. Prereq: jr st; admis to School of Educ; or grad st.

554 Teaching Reading and Adolescent Literature, Grades 4-8. 3 cr. U/G. Reading instruction and literature for early adolescents, grades 4-8 with concurrent teaching field experience. | Counts as repeat of 3 cr of CurrIns 507. Prereq: jr st; admis to School of Educ; CurrIns 552(P); or grad st.

555 Teaching Language Arts, Grades 4-8. 3 cr. U/G. Language arts instruction in the early adolescent grades, grades 4-8, with concurrent teaching field experience. | Counts as repeat of 3 cr of CurrIns 507. Prereq: jr st; admis to School of Educ; CurrIns 553(P); or grad st.

556 Professional Seminar 1: Foundations of Curriculum and Instruction. 3 cr. U/G. Philosophies of curriculum and instructional models to meet the developmental needs of children in urban contexts. | Prereq: jr st, admis to SOE, Ed Psy 325(C), CurrIns 306(C), & 536(C); or cons instr.

557 Professional Seminar 2: Classroom Management: Theory, Practice and Context. 3 cr. U/G. Addresses the theoretical frameworks, models and goals in classroom management practices in grades 1-8. | Prereq: jr st, admis to SOE, CurrIns 556(P) & 307(C); or cons instr.

558 Professional Seminar 3: Building Learning Communities. 3 cr. U/G. Exploration and application of strategies that build positive learning climates/communities in urban classrooms in grades 1-8. | Prereq: jr st, admis to SOE, CurrIns 557(P) & 406(C); or cons instr.

560 Improving Mathematics Teaching and Learning: (Subtitled). 1-3 cr. U/G. Focuses on instructional and curricular issues in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of

Classes each time the course is offered. | May be retaken w/chg in topic to 18 cr max. Prereq: jr st or grad st.

561 Issues in Elementary and Middle School Mathematics. 3 cr. U/G. Introduction to the teaching and learning of mathematics at the elementary and middle school levels. Emphasis on curriculum, instructional strategies, and assessment. | Prereq: jr st; admis to School of Educ or cons instr or grad st.

562 Secondary School Mathematics Issues for Exceptional Education Teachers. 1 cr. U/G. Issues in secondary mathematics curriculum, instructional strategies, and assessment for teachers of students with special needs. | Prereq: jr st; admis to exceeduc middle/high cert prog.

565 Pedagogy Labs: (Subtitled). 1 cr. U. Students concurrently or previously enrolled in content-specific courses will study issues of teaching pedagogy related to that content. | May be retaken w/chg in topic to 6 credit max. Prereq: cons instr.

566 Pedagogy Labs - Linking English Content and Processes with Pedagogy. 1 cr. U. Examines the instructional implications for English content and processes and is taken concurrently with English 201. | Counts as repeat of CurrIns 565 with similar topic. Prereq: jr st.

567 Pedagogy Labs - Linking History Content and Processes with Pedagogy. 1 cr. U. Examines the instructional implications for history content and processes and is taken concurrently with Hist 152. | Counts as repeat of CurrIns 565 with similar topic. Prereq: jr st.

569 Pedagogy Labs - Linking Mathematics Content and Processes with Pedagogy. 1 cr. U. Examines connections between the content material of mathematics courses Math 175/176/275/276/277/278 and K-12 pedagogical practices. Taken concurrently with one of the courses listed. | Prereq: one of the following: 175(C), 176(C), 275(C), 276(C), 277(C) or 278(C).

570 Improving Science Teaching and Learning: (Subtitled). 1-3 cr. U/G. Focuses on instructional and curricular issues in science. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered. | May be retaken w/chg in topic to max of 9 cr. Prereq: jr st; teaching experience.

579 Current Topics in Curriculum and Instruction: (Subtitled). 1-3 cr. U/G. The specific topic will be announced in the Schedule of Classes each time the course is offered. | May be retaken w/chg in topic to max of 9 cr including cr earned under CurrIns 779. Prereq: jr st, cons instr.

580 Mathematics Education: (Subtitled). 1-3 cr. U/G. Analysis of school and classroom practices in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered. | May be retaken w/chg in topic. Prereq: jr st or grad st.

585 Best Practices in Early Childhood for Children and Families. 3 cr. U/G. Child care as a family-friendly community including integration of child growth and development principles into all aspects of the program. | Prereq: jr st; admis to child care director's prog or cons instr.

593 Supervision of Student Teaching. 1 cr. U/G. Roles and responsibilities of the supervising teacher in planning, guidance and evaluation of the learning experiences of prospective teachers. | Prereq: current teacher certification.

601 Early Childhood Seminar in Student Teaching. 3 cr. U. Collaboration around challenges encountered in urban student teaching through a structured inquiry format with peers. | Prereq: sr st, admis to SOE & CurrIns 640(C); or cons instr.

602 Early Childhood Education. 1-4 cr. U/G. Basic principles of curriculum planning for young children. Education in nursery schools, day care centers, kindergartens and primary grades. A study of the materials of instruction and techniques of teaching at this level. | Prereq: jr st.

612 Collaborations for Teachers with Families, Schools, and Communities. 3 cr. U/G. Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers. |Counts as repeat of CurrIns 505 and ExcEduc 651. Jointly offered with and counts as repeat of ExcEduc 612. Prereq: jr st; admis to SOE; or cons instr.

624 Instructional Trajectories for Fraction Concepts and Operations. 3 cr. U/G. Examination of mathematical trajectories for teaching fractions with focus on evidence-based instructional and assessment strategies and analysis of curriculum. |Prereq: jr st; teaching experience, or cons instr.

625 Principles and Practices of Teaching Geometry and Geometric Thinking. 3 cr. U/G. Examination of instructional sequences for geometry and analysis of teaching strategies for developing and assessing students' geometric thought. |Counts as repeat of CurrIns 560 with topic Geometry and Geometric Thinking. Prereq: jr st; teaching experience

626 Principles and Practices of Teaching Algebraic Reasoning. 3 cr. U/G. Examination of instructional trajectories for algebra and analysis of teaching strategies for developing and assessing students' algebraic reasoning. |Prereq: jr st; teaching experience.

629 Change and Change Strategies in Education. 1-4 cr. U/G. This course will involve students in an exploration of individual groups and institutions as these elements relate to change processes in education. Models and strategies will be studied and applied to change problems. |May be retaken to a 4 cr max. Prereq: jr st; teaching experience.

637 World Language Methods and Materials. 3 cr. U/G. Basic principles and practical instructional techniques intended to prepare teachers with experiences and background to teach world languages. |Prereq: jr st or cons instr.

639 Critical Issues and Methods in World Language Education. 3 cr. U/G. Advanced preparation for teachers of world languages that will equip them for teaching world languages to students from early childhood through adolescence. |Prereq: jr st, CurrIns 637(P) or equiv, or cons instr.

640 Student Teaching in Early Childhood. 6-12 cr. U. Full semester experience in an early childhood classroom. |Prereq: sr st; admis to SOE; CurrIns 601(C); CurrIns 540(P); or cons instr.

642 Teaching Standard English as an Alternate Dialect in Urban Schools. 1-4 cr. U/G. Offered once per academic year, once every second summer. Linguistic aspects of application of research and scholarship to the problems of teaching standard english in urban schools. Includes recent curricular developments and micro teaching. |Prereq: jr st. Available as grad level only.

643 Balanced Literacy Instruction in the Elementary School. 1-3 cr. U/G. Study and implementation of assessment and teaching strategies for balanced literacy instruction including phonics. |May be retaken to 6 cr max. Not open for cr to students with CurrIns 343(ER) or equiv. Prereq: jr st.

644 Enhancing Literacy Learning for Diverse Learners: (Subtitled). 3 cr. U/G. Teaching reading and writing to diverse learners. |Jointly offered with & subtitles count as repeat of same title of ExcEduc 644. CurrIns 644 & ExcEduc 644 may be retaken w/chg in topic to combined 9 cr max. Prereq: currently teaching with at least 2 yrs experience; cons instr.

646 University of Wisconsin System Reading Research Symposium. 1-3 cr. U/G. Updates students on most recent reading research. Students are required to attend the two-day symposium. |May be retaken for credit. Prereq: jr st.

647 Early Reading Empowerment: Part 1. 3 cr. U/G. First semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners. |Prereq: currently teaching, at least 2 years teaching experience, cons instr.

648 Early Reading Empowerment: Part 2. 3 cr. U/G. Second semester of a 2 semester practicum designed for

practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners. |Prereq: CurrIns 647(P), currently teaching, at least 2 years teaching experience, cons instr.

649 Children's Literature. 1-4 cr. U/G. To acquaint students with the wide range of good books for children and to provide wide reading experiences in children's literature; evaluation and use of current materials. |Prereq: jr st & admis to School of Educ; or grad st.

650 Reading Interests of Adolescents. 3 cr. U/G. Recently published literature for adolescents - types, themes, issues related to school programs. |Prereq: jr st.

651 Literature for the Young Child. 3 cr. U. Examines literature with young children to develop verbal fluency, aesthetic awareness and interest in reading. Rationales, specific instructional strategies, illustration styles and genres are discussed. |Prereq: soph st.

653 Children's Literature: The Past Five Years. 3 cr. U/G. Analysis of children's books published in the past five years. Arranged by genres, this course considers issues, trends, evaluative criteria, and classroom uses of books. |Prereq: jr st; CurrIns 649 or equiv.

655 Applied Educational Linguistics. 3 cr. U/G. Explanation of linguistic principles which can be applied to language-based activities in the classroom and which can be useful in solving language-learning problems. |Prereq: jr st or cons instr.

657 Approaches to Teaching and Assessing Texts in the Secondary Schools. 3 cr. U/G. Pedagogy and assessment of literature and other texts and their classroom applications: canonical and diverse literary selections; literary critical theory. |Prereq: jr st.

658 Teaching and Assessing English. 3 cr. U/G. The objectives, materials, techniques and assessments of teaching English. Covers language and writing methods. |Prereq: jr st, Admis to SOE & CurrIns 657(P); or grad st.

659 Teaching and Assessing Grammar to Enrich Writing. 2 or 3 cr. U/G. Current research about teaching grammar, and the historical, social, and political consequences associated with various approaches to grammar instruction and assessment. |English Educ Cert students enroll for 2 cr; other Cert students enroll for 3 cr. Prereq: jr st.

664 Dramatizing Literature in Elementary Classrooms. 1-4 cr. U/G. Nature of creativity in children; basic principles of informal playmaking, including movement, mime, characterization, dialogue, and conflict. Using children's ideas to develop literature-based dramatizations. |Prereq: jr st.

668 Introduction to Instructional Technology. 1-4 cr. U/G. The utilization of instructional technology. Emphasis is placed upon the effective integration and utilization of instructional media as based upon a systems approach to organization. Laboratory exercises included. |Prereq: jr st. Not available for grad cr.

675 Making Schools Work: Promoting Positive Change in Chronic Problem Behavior. 3 cr. U/G. Methods of applying system theory, cybernetics, and communication theory concepts in classrooms and schools to help solve recurring interpersonal problems and improve educational effectiveness. |Prereq: grad st or cons instr.

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DANCE Dance

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103 Introduction to Iyengar Yoga. 2 or 3 cr. U. Iyengar Yoga method and philosophy presented in a format to enrich artistic appreciation of Yoga as a physical artform.|May be retaken to max of 3 sem. Dance majors register for 2 cr. Non-majors register for 3 cr. Prereq: none.

110 Introduction to the Art of Dance. 3 cr. U. Basic technique, implementation, short compositions, lectures, films and discussions on dance history, philosophy, theory, and survey of current trends.|May be retaken to a max of 2 sem. Prereq: none.

111 Ballet I. 2-3 cr. U. This beginning level class introduces ballet principles for those with little or no previous studio training. Alignment, verticality, and basic ballet movements are stressed.|May be retaken to a max of 3 sem. Dance majors register for 2 cr. Non-majors register for 3 cr. Prereq: none.

112 Contemporary Dance Practice: Ballet Tradition II. 2-3 cr. U. A continuation of Dance 111.|May be retaken to max of 3 sem. Prereq: Dance 111(P) or Dance major.

113 Modern Dance Technique I. 2-3 cr. U. Introduction to basic elements and principles of modern dance. Anatomically correct use of body, moving with awareness, and use of varied movement qualities are stressed.|Dance majors register for 2 cr. Non-majors register for 3 cr. May be retaken to max of 9 cr. Prereq: none.

114 Contemporary Dance Practice: Modern Tradition II. 2-3 cr. U. Continuation of Dance 113.|May be retaken to max of 9 cr. Prereq: Dance major or Dance 113(P).

115 Jazz Dance I. 1-3 cr. U. Basics of percussive and lyrical jazz styles.|May be retaken to a max of 3 sem. Prereq: none.

116 Jazz Dance II. 1-3 cr. U. A continuation of Dance 115.|May be retaken to max of 3 sem. Prereq: Dance 115(P) or cons instr.

117 Tap I. 1-3 cr. U. The basics of tap dancing designed to instill rhythm and a sense of style.|May be retaken to max of 2 sem. Prereq: none.

122 African Dance & Diaspora Technique I. 2-3 cr. U. Philosophical and applied foundations of African-American

dance. Aesthetics, style, musical accompaniment, the role of dance as expression of socio-cultural experience. Emphasis on movement. | May be retaken to max of 3 sem. Prereq: none.

123 African Dance & Diaspora Technique II. 2-3 cr. U. A continuation of Dance 122. | May be retaken to max of 3 sem. Prereq: Dance 122(P) or cons instr.

133 Creative Movement I. 2-3 cr. U. A class to develop the creative potential of each student in rhythm and movement. | May be retaken to max of 9 cr. Dance BFA majors enroll in for 2 cr. Dance BA majors and non-majors enroll for 3 cr. Prereq: none.

135 Introduction to Dancemaking Skills. 3 cr. U. A broad introduction to contemporary dancemaking choreographic and improvisational skills. | Prereq: Dance major.

192 Freshmen Seminar. 1 cr. U. Seminar to orient Dance majors to UWM, PSOA, Dance Department, Milwaukee dance community, and successful life as a dancer. | Prereq: Dance major.

209 Dance Production. 2 cr. U. Introduction to dance production theory, design and practical skills. | Prereq: Dance major or cons instr.

211 Contemporary Dance Practice: Ballet Tradition III. 2-3 cr. U. A continuation of Dance 112. | May be retaken to max of 9 cr. Prereq: Dance 112(P) or cons instr.

212 Contemporary Dance Practice: Ballet Tradition IV. 2-3 cr. U. A continuation of Dance 211. | May be retaken to max of 9 cr. Prereq: Dance 211(P) or cons instr.

213 Contemporary Dance Practice: Modern Tradition III. 2-3 cr. U. Continuation of Dance 114. | May be retaken to max of 9 cr. Prereq: Dance 114(P) or cons instr.

214 Contemporary Dance Practice: Modern Tradition IV. 2-3 cr. U. A continuation of Dance 213. | May be retaken to max of 9 cr. Prereq: Dance 213(P) or cons instr.

217 Tap II. 2-3 cr. U. Continued exploration of tap dance technique. Study of complex rhythmic combinations and movements. | May be retaken to a max of 3 sem. Prereq: Dance 117 (P) or cons instr.

219 Arts in Community Service. 3 cr. U. Students acquire means to assess personal learning and techniques to assess impact of their service-learning work on community partner organizations. Prereq for regis in service-learning component of a dance course. | Prereq: none.

220 Body Sense. 3 cr. U. This course intends to provide an environment for creative exploration of individual body awareness, integration of body-mind and experiencing the body in space. | May be retaken to max of 6 cr. Prereq: none.

221 Body Sense II. 2-3 cr. U. Movement exercises from varied theories; intensified self-observation and documentation of experience. Stress on intrapersonal, interpersonal, emotional, and existential intelligences. | May be retaken to max of 2 sem. Prereq: Dance 220(P).

222 African Dance & Diaspora Technique III. 2-3 cr. U. A continuation of Dance 123. | Prereq: Dance 123(P) or cons instr.

223 African Dance & Diaspora Technique IV. 2-3 cr. U. A continuation of Dance 222. | Prereq: Dance 222(P) or cons instr.

231 Music and Dancers I. 3 cr. U. Beginning study of the relationship between dance and music. Emphasis on musical awareness, development of listening skills and the application of such skills to movement experiences. | Prereq: Dance or Inter-Arts major or cons instr.

233 Improvisation for Dancemaking. 3 cr. U. A structured exploration of movement invention process, and structuring movement sequences through use of movement games and systems.|May be retaken to max of 2 sem. Prereq: Dance major or cons instr.

250 Sophomore Seminar. 0 cr. U. Discussion of topics for 2nd year Dance majors.|Fee for 1 cr assessed. Prereq: Dance 192(C).

251 Laban Movement Analysis I. 3 cr. U. Exploration of the dynamics of movement, including space/time weight flow combinations, the body's approach to space, basic spatial forms (dimensional cross, planes, cube, tetrahedron), introduction to phrase writing.|Prereq: successful completion of QL-A.

261 Junior Seminar. 0 cr. U. Discussion of topics for 3rd year Dance majors.|Fee for 1 cr assessed. Prereq: Dance 250(C).

309 Dance Production Practicum. 1 cr. U. Dance 309 is a continuation of Dance 209 focusing on the application of an array of production skills.|Prereq: Dance 209(P) or cons instr.

310 Jazz III. 2-3 cr. U. Continued study of jazz dance vocabulary and movement concepts.|May be retaken to a max of 3 sem. Prereq: Dance 116 (P) or cons instr.

311 Contemporary Dance Practice: Ballet Tradition V. 3 cr. U. Continuation of Dance 212.|May be retaken to max of 9 cr. Prereq: Dance 212(P) or cons instr.

312 Contemporary Dance Practice: Ballet Tradition VI. 3 cr. U. Continuation of Dance 311.|May be retaken to max of 9 cr. Prereq: Dance 311(P) or cons instr.

313 History of Dance in the African Diaspora. 3 cr. U. The dance traditions of Africa and the Diaspora.|Prereq: successful completion of OWC-A

314 Contemporary Dance History. 3 cr. U. Developments in modern dance from 1890's to the present with emphasis on comparative philosophies.|Prereq: successful completion of OWC-A

315 History of the American Musical Theater. 3 cr. U. Introduction to the origins, development and evolution of the American musical theater.|Prereq: successful completion of OWC-A.

317 Contemporary Dance Practice: Modern Tradition V. 3 cr. U. Continuation of Dance 214.|May be retaken to max of 9 cr. Prereq: Dance 214(P) or cons instr.

318 Contemporary Dance Practice: Modern Tradition VI. 3 cr. U. Continuation of Dance 317.|May be retaken to max of 9 cr. Prereq: Dance 317(P) or cons instr.

319 Dance Service-Learning. 1-3 cr. U/G. Service-Learning as field work in a community partnership setting under supervision of Dance faculty member.|Conc reg in dance course which allows Dance 319 component by cons instr. May be retaken to max of 4 sem or 9 cr. Prereq: jr st; Dance 219(P), & cons instr.

320 Rituals and Culture. 2-3 cr. U. Sources, dimensions, and elements of ritual; values being ritualized. Creating ritual components through storytelling, singing/chanting, movement/gestures, wearing/carrying special clothing/objects.|May be retaken to max of 2 sem. Prereq: soph st.

321 Alexander Technique for the Performer. 2-3 cr. U. Introduction to the principles of Alexander Technique as it applies to performing artists and new media collaborations.|Dance Majors and Somatics Minors enroll for 2 cr; all other majors enroll for 3 cr. May be retaken to max of 6 cr. Prereq: none.

322 African Dance & Diaspora Technique V. 2-3 cr. U. A continuation of Dance 223. |Prereq: Dance 223(P) or cons instr.

323 Body Conditioning: Pilates Method. 2-3 cr. U. Supervised exercises providing special training for strength, balance, and endurance as well as anatomical study. |May be retaken to max of 6 cr. Prereq: none.

325 Pointe and Variations. 2 cr. U. The study of pointe technique and Ballet variations. |May be retaken to max of 2 sem. Prereq: Dance major or cons instr.

327 Dance for the Musical Theatre I. 2-3 cr. U. Study of the role and use of dance in theatrical productions. |May be retaken to a max of 3 sem. Prereq: Dance 111(P) and 115(P), or cons instr.

331 African Percussion Ensemble. 3 cr. U. Hands-on experience in drumming and percussion techniques from Africa and the Diaspora. |Prereq: Dance or Inter-Arts major or cons instr.

350 Upper-Level Seminar. 0 cr. U. Discussion of topics for upper-level Dance majors. |Fee for 1 cr assessed. Prereq: Dance 250(C).

352 Digital Media Portfolio for Performers. 3 cr. U. Introduction to digital tools for technique and choreographic portfolios. |Prereq: jr st or cons instr

360 Movement and Learning. 3 cr. U. Effect of movement on learning. Learned movement patterns as learning preparation. Centering, focusing, mind-clearing activities. Creative movement activities for creative problem-solving. |May be retaken to max of 6 cr. Prereq: none.

361 Dance in Elementary Education. 3 cr. U. A study of the relationship of dance experiences to the growth and development of the elementary school child. Discussion, lectures, experimentation and analysis of dance materials. Suitability of materials for various age groups and situations. Teaching of children's dance classes. |Prereq: Dance or Education major or cons instr.

362 Dance in Secondary Education and College. 3 cr. U. Methods and philosophy of teaching dance in the secondary school. Theory and practice in solving problems arising in practical teaching situations. Observation of dance classes. |Prereq: Dance major or cons instr.

370 World Movement Traditions: (Subtitled). 2-3 cr. U. Dance and movement traditions of world cultures; different cultures each semester. |May be retaken to max of 2 sem per topic. Prereq: none.

371 Applied Anatomy. 3 cr. U. Principles and use of the mind-body construct to aid in understanding movement through ideo-kinetics. |Prereq: dance majors, somatics minor or cons instr.

403 Intermediate Yoga For Dancers. 2-3 cr. U/G. A continuation of Dance 103 stressing the performance and integration of more advanced asanas. |May be retaken to a max of 2 sem. Prereq: Dance 103, or grad st in Dance component of MFA prog, or cons instr.

411 Field Work in Dance. 2 cr. U. Dance education field experiences in schools, agencies and institutions. |Prereq: Dance majors and Dance 361(P) or 362(P) & cons instr.

412 Dance Composition I. 3 cr. U. Resources for discovering and inventing movement material, and for developing concepts and structures to give this material perceptual, emotional validity. |Prereq: Dance major or cons instr.

413 Dance Composition II. 3 cr. U. A continuation of Dance 412. |Prereq: Dance 412(P) or cons instr.

414 Dance Composition III. 2-3 cr. U. Investigation of advanced choreographic, musical, technical challenges in making site-specific performance work. |Prereq: Dance 412(P) & 413(P) or cons instr.

415 Movement and New Media Collaborations. 3 cr. U. Required collaborative new media composition course in the IAT Post-Portfolio Core. Integration of movement and new media.|Prereq: Dance or Inter-Arts/IAT major or cons instr.

420 Creating Dance in the Community. 3 cr. U. Understanding and mastering artistic and collaborative/interactive skills for use in community and artistic settings.|Prereq: Dance 219(P) or cons instr.

421 Alexander Technique Practicum. 2 cr. U. Dance 421 is a continuation of Dance 321 focusing on more in-depth study and application of Alexander Technique for performers.|May be retaken to max of 3 sem. Prereq: Dance 321(P) or cons instr.

427 Dance for the Musical Theatre II. 2-3 cr. U. Continued advanced study of dance for theatrical productions. Includes analysis of signature dances from Broadway and film musicals.|May be retaken to a max of 3 sem. Prereq: Dance 327(P) or cons instr.

441 History of African Dance Theory I. 3 cr. U. Aesthetics and movement sensibilities throughout the African Diaspora.|Prereq: Dance 313(P) or cons instr.

460 Teaching Dance in Community Settings. 3 cr. U. Prepare dance artists to teach and create dance experiences for people in all ages of the human lifespan, and in a wide range of community settings.|Prereq: Dance or Education major or cons instr.

485 Student Teaching in Dance in Elementary Schools. 1-9 cr. U. Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the dance faculty; weekly seminar at the university.|Prereq: BFA in Dance or equiv & admis to teaching cert prog in Dance.

486 Student Teaching in Dance in Secondary Schools. 1-9 cr. U. Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the dance faculty; weekly seminar at the university.|Prereq: BFA in Dance or equiv & admis to teaching cert in Dance.

489 Workshop in Dance: (Subtitled). 1-6 cr. U. An opportunity for students to deal independently in diversified creative aspects of dance such as choreo-cinema or environmental dance.|May be retaken w/chg in topic to 9 cr max. Prereq: Dance major or cons instr.

490 Repertoire and Ensemble. 0-3 cr. U. Practicum in group performance in dance productions, touring groups and performances related to the department. Includes original works from classical and contemporary repertoire.|When taken for 0 credit, fee for 1 credit assessed. May be retaken to 6 cr max. Prereq: Dance major or cons instr.

491 Repertory/Student Choreographer. 0-1 cr. U. Practicum in performing with undergraduate student choreographers on senior projects or composition showings.|When taken for 0 credit, fee for 1 credit assessed. May be retaken to 4 cr max. Prereq: Dance major or cons instr.

497 Study Abroad in Dance: (Subtitled). 1-12 cr. U/G. Interdisciplinary and foundational learning in the area of world dance through interactions with and explorations in differing cultures and areas.|May be retaken w/chg in topic to max of 12 cr. Prereq: jr st or cons instr; & acceptance for Study Abroad Prog.

522 African Dance & Diaspora Technique VI. 2-3 cr. U. A continuation of Dance 322.|Prereq: Dance 322(P) or cons instr.

541 History of African Dance Theory II: (Subtitled). 3 cr. U. Further study in the aesthetics and movement sensibilities throughout the African Diaspora.|May be retaken w/chg in topic to 9 cr max. Prereq: Dance 441(P) or cons instr.

601 Senior Project. 3 cr. U. Composition of an original work to be presented for performance, or planning and

implementation of a major dance project on the campus or in the community. | Prereq: Dance major, Somatics minor or cons instr.

623 Body Conditioning: Pilates Method II. 2-3 cr. U. Concentrated and advanced study of the Pilates Method incorporating Pilates equipment to enhance skills developed in Dance 323. | May be retaken to max of 3 sem. Prereq: Dance 323(P) or cons instr.

624 Feldenkrais for Performers. 2 cr. U. How the teaching pedagogy and theories of The Feldenkrais Method^Â is applicable to any movement-focused situation, especially dance. | Counts as repeat of Dance 489 and 889 with same topic. May be retaken to 6cr max. Prereq: jr st. or cons instr.

699 Independent Study in Dance. 1-4 cr. U. Individual program of supervised study in Dance under the direction of the instructor. | May be retaken to max of 12 cr. Prereq: cons instr.

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ECON Economics

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A. General Economics

100 Introductory Economics. 3 cr. U. A one semester survey of current national and international economic problems. Useful as preparation for Econ 103 and 104. Not required of economics majors. |Not open for cr to students who have cr in Econ 103 & 104. Prereq: none.

103 Principles of Microeconomics. 3 cr. U. Economic reasoning; price determination, specialization, and efficiency. Applications include international trade, antitrust, environmental protection, highway congestion. |Prereq: none.

104 Principles of Macroeconomics. 3 cr. U. Composition of national income, interrelationship of sectors; determination of national income and productivity; relationship between national income, inflation, money, interest rates; U.S. global economies interaction. |Prereq: none.

110 Economics of Personal Finance. 1 cr. U. Economics of personal financial management; development of successful financial skills; activity-based course with assignments emphasizing students' individual situations. |No cr for students who have cr in Econ 258 w/same topic. Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. |May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

210 Economic Statistics. 3 cr. U. Basic probability and statistics; numerical and graphical methods of describing data, elementary probability, random variables and probability distributions, hypothesis testing, simple linear regression. |Prereq: Math 105(P), or Math 108(P), or Math Placement Level 30 or higher.

248 Economics of Discrimination. 3 cr. U. Use of economic theory to examine the history, current status, and policies regarding various minority groups in the United States. Applications include education, housing, jobs. |Prereq: none.

258 Selected Topics in Economics: (Subtitled). 1-3 cr. U. Focus on special topics not normally discussed in detail in other existing courses. | May be retaken w/chg in topic to 9 cr max. Prereq: soph st; cons instr.

289 Internship in Economics, Lower Division. 1-6 cr. U. Application of basic principles of economics in a business, organizational, educational, political, or other appropriate setting. | One cr granted for academic work based on 40 hrs in the internship. May be retaken to 6 cr max. Prereq: 100-level course in Econ; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

381 Honors Seminar: (Subtitled). 3H cr. U. Examination of current economic issues such as energy, environment, poverty, and human resource development. | May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

458 Selected Topics in Economics: (Subtitled). 3 cr. U/G. Variable content course designed to focus on special topics not normally discussed in detail in other existing courses. | May be retaken w/chg in topic. Prereq: jr st & cons instr.

489 Internship in Economics, Upper Division. 1-6 cr. U. Application of advanced principles of economics in a business, organizational, educational, political, or other appropriate setting. | One cr granted for academic work based on 40 hrs in the Internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Econ; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

697 Organizational Administration Capstone. 3 cr. U. Internship, case analysis, or independent study that synthesizes course work in graded paper. | Commun 697, Econ 697, & Sociol 697 are jointly offered; they count as repeats of one another. Prereq: sr st; declared org adm major; satisfaction of GER English Composition competency req; cons instr.

699 Independent Work. 1-3 cr. U. | May be retaken w/topic chg. Prereq: jr st, 2.5 gpa & writ cons instr, dept chair & asst dean for SAS.

B. Economic Theory

301 Intermediate Microeconomics. 3 cr. U. Contemporary theory of consumption, production, pricing, resource allocation, and distribution. | Prereq: Econ 103(P).

302 Intermediate Macroeconomics. 3 cr. U. Analysis of savings, production, investment and other aggregates in the national and international economy as related to the determination of national income, inflation, and unemployment. | Prereq: Econ 104(P).

404 Economic Applications of Game Theory. 3 cr. U. Strategic interaction among decision makers. Studies multi-party decision problems of a firm, a government, or a country. |Prereq: jr st; Econ 301(R) or cons instr.

506 Mathematical Economics I. 3 cr. U/G. Mathematical techniques used in economic analysis, including calculus and matrix algebra. Applications include optimizing behavior of firms and consumers. |Prereq: jr st; Econ 301(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).

606 Mathematical Economics II. 3 cr. U/G. Difference and differential equations applied to economic variables such as human capital, consumption, learning, energy use, and pollution. Essential preparation for graduate work. |Prereq: jr st; Econ 506(P).

C. Quantitative Methods

310 Research Methods for Economics. 3 cr. U/G. Statistical research methods, especially cross-section and time-series regression, applied to evaluation of empirical literature and a directed research project. |Not open for cr to students who have cr in Econ 513(531). Prereq: jr st; Econ 210(P) or cons instr.

411 Economic Forecasting Methods. 3 cr. U/G. Economic time series, analysis, forecasts. Trends, seasonality, cycles, smoothing procedures. Simulation models; sample survey methods. Extensive applications using macro and financial data. Forecasting software use. |Prereq: jr st; Econ 210(P); Econ 310(P) or cons instr.

413 Statistics for Economists. 3 cr. U/G. Elements of probability; joint marginal and conditional distributions; measures of central tendency and dispersion, calculus of expectations; central limit theorem. Estimation and testing of economic relations. |Prereq: jr st; Econ 210(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).

513 Introduction to Econometrics. 3 cr. U/G. Multiple regression, generalized least squares, specification analysis, multicollinearity, multiple equations including simultaneous equations. |Prereq: jr st; Econ 413(P).

D. The Economics of Public Policy

325 Money and Banking. 3 cr. U. Stocks, bonds, derivatives, foreign exchange. Analysis of commercial banks, investment banks, brokerages, etc. Domestic and international monetary theory and policy. Risk insurances, regulations, deregulation. |Prereq: Econ 104(P).

328 Environmental Economics. 3 cr. U. Evaluating public policy of environmental and natural resources. Regulation of pollution, endangered species, natural resources, and other case studies. |Prereq: Econ 103(P).

426 Public Economics. 3 cr. U/G. Economic analysis of government and policy, including taxation and expenditures, policy responses to market failures, redistributive programs, and related topics. |Prereq: jr st; Econ 104(P) & 301(P).

450 Health Economics. 3 cr. U/G. Efficiency of medical care, health insurance and access to care, alternative models of health care delivery, health behaviors and public policy. |Prereq: jr st; Econ 103(P).

525 The Economics of Water. 3 cr. U/G. Comprehensive development of water resource economics for engineers, scientists, and economists; analysis of the public and private sector economics of water resources. |Prereq: jr st; Econ 103(P); Math 231(P); a statistics course; or cons instr.

E. Strategy, Law, and the Economy

231 Analysis of American Industries. 3 cr. U. Performance of key U.S. industries (e.g. education, beer, cars, medicinal drugs, radio, television, sports, steel, food, music recording); their responses to changing national/international economic conditions.|Prereq: soph st; Econ 103(P).

333 Economics and Law. 3 cr. U. Economic roles of civil/criminal law through definition/enforcement of property, contract, civil rights. Applications: breach of contract, compensation for injury, medical malpractice, sexual harassment.|Prereq: Econ 103(P).

335 Economics of Antitrust Laws. 3 cr. U. Examination of laws intended to increase competition; their evolution through landmark cases involving price fixing, mergers toward monopoly, and unfair competition including IBM, AT&T, Microsoft.|Prereq: Econ 103(P).

432 Industrial Organization. 3 cr. U/G. Economic analysis of asymmetric information, barriers to competitive entry, licensing, pricing practices/transactions costs; application to markets for insurance, computers, health care, used cars, food.|Prereq: jr st; Econ 301(P).

F. Labor Economics

415 Economics of Employment and Labor Relations. 3 cr. U/G. Analysis of wage setting, labor markets, human capital and collective bargaining. Study of labor standards, regulation and the role of unions and government.|Prereq: jr st; Econ 103(P).

447 Labor Economics. 3 cr. U/G. The economics of unions, minimum wage, poverty and welfare programs; influence of international trade on domestic labor markets. Study of labor supply and labor demand.|Prereq: jr st; Econ 301(P).

448 Economics of Human Resources. 3 cr. U/G. The economics of education, training, discrimination, and workplace incentives. Study of hiring, promotion, and job search.|Prereq: jr st; Econ 103(P) or cons instr.

G. International Economic Relations

351 Introduction to International Economic Relations. 3 cr. U. International economics and finance, determinants and structure of international trade, commercial policy, foreign exchange markets, and balance of payments.|Not open for cr to students who have cr in both Econ 454 & 455. Prereq: Econ 100(P); or both 103(P) & 104(P).

353 Economic Development. 3 cr. U. Examination of determinants of growth, modernization, poverty, and inequality in developing countries of Africa, Asia, and Latin America. Analysis of development strategies.|Prereq: Econ 103(P) & 104(P).

454 International Trade. 3 cr. U/G. Why countries trade; who wins, who loses; facts about world trade; political economy of trade. Balance of payments, Asian crisis, European Union, American wage dispersion.|Prereq: jr st; Econ 301(P).

455 International Finance. 3 cr. U/G. International monetary system; spot and foreign exchange markets; balance of payments; international adjustment mechanisms; international finance policy; history and institution.|Prereq: jr st; Econ 302(P).

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EDUC Education-Interdepartmental

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ED POL Educ Policy/Community Studies

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100 Community Education I. 3 cr. U. Allows community education majors to earn credits for their prior professional education experiences.|Cr/no cr only. Prereq: Admis to CED.

100 (effective 09/04/2018) Prior Professional Education Experience. 3 cr. U. Allows Community Engagement & Education majors only to earn credits for their prior professional education experiences. Course credits may only be used towards lower electives.|Cr/no cr only. Prereq: Admis to CEED.

101 Community Education II. 1-15 cr. U. Second semester lower division curriculum: includes development of prior educational experience statement, personal goal analysis, learning agreement, continued acquisition of skills and understandings leading to competence, practice.|Less than 15 cr available to students possessing some equivalent skills and/or understandings. Prereq: Ed Pol 100 or cons instr.

111 Introduction to Community Change and Engagement. 3 cr. U. Basic concepts and strategies for community change and engagement.|Prereq: none.

112 Introduction to Community Education. 3 cr. U. This course will examine the history of community education and discuss the role of education within a community setting.|Prereq: none.

113 (403) The Milwaukee Community. 3 cr. U. An overview of communities and neighborhood groups in Milwaukee.|Prereq: none.

114 Community Problems. 3 cr. U. This course will examine how social problems impact upon communities and neighborhoods, how they are defined, and how these definitions influence social policies and programs.|Prereq: none.

179 Special Topics in Community Education: 1-3 cr. U. |May be retaken w/content chg to 12 cr max. Prereq: none.

200 Community Education III. 1-15 cr. U. Third semester lower division curriculum: emphasizes acquisition of skills and understandings leading to basic competence as set forth in student learning agreements. Includes fieldwork practice.|Variable cr based on skills & understanding to be acquired & nature of practice. Prereq: Ed Pol 101 or cons instr.

201 Community Education IV. 1-15 cr. U. Fourth semester of lower division curriculum: emphasizes final

development of skills and understandings leading to basic competence as set forth in student learning agreements and continuation of fieldwork practice. Includes final evaluation of basic competence.|Prereq: Ed Pol 200 or cons instr.

202 Community Service Volunteer. 1-6 cr. U. |Cr/no cr only. May be retaken to max of 6 cr. Prereq: none.

203 Communities and Neighborhoods in America. 3 cr. U. Students will construct a survey of their neighborhoods, examine theories of community structure, and analyze neighborhood improvement movements. Fulfills Ed Pol 113 req for CED.|Prereq: none.

212 Educational Issues in Spanish Speaking Communities. 3 cr. U. This course presents an overview of the educational issues in the Spanish-speaking communities in the United States and how these issues affect the total society.|Prereq: none.

279 Current Topics in Educational Policy and Community Studies: (Subtitled). 1-3 cr. U. Variable content course. Specific topic announced in the Schedule of Classes.|May be retaken w/chg in topic to max of 9 cr. Prereq: jr st.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

299 Independent Reading. 1-3 cr. U. For the benefit of undergraduate students unable to secure needed content in regular courses.|May be retaken to max of 6 cr. Prereq: cons instr.

302 Approaches to Relationships in the Child Care Setting. 3 cr. U. Communication and conflict resolution in relationships in the child care setting, emphasizing parent-child, teacher-child, teacher-teacher and parent-teacher relationships.|Prereq: Commun Ed majors, cons advisor; others, jr st or cons instr.

315 Group Process and Civic Engagement: (Subtitled). 1-3 cr. U. Explore group process and identity and relate these issues to future civic engagement for emerging student leaders.|Not open to students with cr in Ed Pol 279 Emerging Leaders topics. May be retaken to 4 cr max. Prereq: none.

375 Cultural Foundations of Education. 3 cr. U. Critical examination of cultural influences in American society as they affect education.|Prereq: soph st or cons instr.

377 Conceptual and Development Formulation for Prior Educational Experience. 3-6 cr. U. |C/NC only. May be retaken to 12 cr max.

379 Current Topics in Community Education: (Subtitled). 1-6 cr. U. The specific topics and prerequisites will be announced in the Schedule of Classes each time the course is offered.|May be retaken w/chg in topic to max of 12 cr. Prereq: jr st or cons instr.

381 Introduction to Child Care: (Subtitled). 3 cr. U. An introductory course for students who are new to the field of child care. Enables students to begin working effectively with young children.|May be retaken w/chg in topic to 6 cr max. Prereq: none.

383 Child Care Programming: (Subtitled). 1-3 cr. U. Study of child care programming as it relates to the child's social milieu: family, community, and child care center. Comparative examination of child care programs and their supporting theories.|May be retaken w/chg in topic to 6 cr max. Prereq: none.

411 Conflict and Change in Community-Based Organizations. 3 cr. U. Examines the role of bargaining and conflict in community-based educational change, various approaches to bargaining and conflict, and their appropriateness in various settings.|Prereq: jr st or cons instr.

416 Analysis of Child Care Environments. 3-6 cr. U. Introduces students to a variety of special designs for child care

settings and to an understanding of evaluation process for environmental changes.|Prereq: Comm Ed majors-cons adv; others-jr st or cons instr.

442 Intermediate Community Education Practice I. 3-9 cr. U. Supervised fieldwork in Area of Specialty (upper divisional majors in C.E.). Emphasizes acquisition of new skills understandings and their application to practice.|May be retaken to 9 cr max. Prereq: Ed Pol 508(P) & cons instr.

460 The Chicano Experience. 3 cr. U. This course surveys important issues shaping the Chicano experience in U.S. society by focusing on immigration, the Barrio, Repatriation, Zoot Suit, Chicano-police riots, etc.|Prereq: none.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st, cons instr, acceptance for Study Abroad Prog.

499 Independent Reading. 1-3 cr. U. |May be retaken for cr. Prereq: jr st; cons instr.

500 Sociology and Policy of Urban Communities and Schools. 3 cr. U/G. Selected contemporary social issues analyzed for their bearing on urban communities and schools.|Prereq: jr st.

501 Community Change and Engagement. 3 cr. U/G. Concepts and strategies for community change and engagement in low-income urban settings.|Prereq: jr st or cons instr.

506 Research Techniques for Community Organizers and Community Educators. 3 cr. U. Introduction to basic research techniques and the specific skills needed for the community organizer and/or educator.|Prereq: jr st.

507 Action Research on Milwaukee Institutions. 3 cr. U/G. Examination and analysis of the organization, philosophy, and history of specific Milwaukee institutions. Emphasis placed on how these institutions affect the lives of community residents and appropriate alternatives to current arrangements.|Prereq: jr st or cons instr.

508 Advanced Problems in Community Change and Engagement. 3 cr. U/G. Advanced training in community engagement with reflective paper.|Prereq: Ed Pol 111(P) & cons instr.

509 (409) Fieldwork/Practicum in Education and the Community. 1-3 cr. U/G. Advanced fieldwork/practicum for students to acquire skills for educational and community practice; fieldwork hours correspond to credit value; 50 hours for 1 cr, 75 hours for 2 crs, 100 hours for 3 crs.|May be retaken to 6 cr max. Prereq: Comm Ed majors only.

510 Human Relations for Community Organizations & Community Engagement. 3 cr. U/G. Analysis of selected concepts and resources bearing on human relations training. Various approaches, e.g., Harvard case studies, to human relations will be evaluated.|Prereq: jr st.

519 Peer Programs and Mediation: Youth Mentoring and Supporting Youth. 3 cr. U/G. Theory and practice of peer programs and how they are developed and sustained.|Counts as repeat of Ed Pol 579 w/same topic. Prereq: jr st.

520 Peace Education. 3 cr. U/G. Discusses how education and community education can address the threats of violence and prepares students to teach about peace, nonviolence, and conflict resolution.|Prereq: jr st or cons instr. Minimum of 9 hrs Soc Sci division course work.

521 Nonviolence in Education. 3 cr. U/G. An overview of different theories of nonviolence and an examination of their applications in educational setting.|Prereq: jr st; Ed Pol 520(R); Psych 201(R) or cons instr.

522 Abusive Relationships: Community Problems, Community Solutions. 3 cr. U/G. The origins of relationship abuse, the legal aspects of domestic violence, and the healing process for people hurting in relationships.|Prereq: jr st; Ed Pol 520(P) or cons instr.

530 Urban Education: Foundations. 3 cr. U/G. Application of basic social science concepts to study of education in the urban setting.|Prereq; jr st.

531 Alternative Schools. 3 cr. U/G. Examine the alternative schools movement.|Counts as repeat of Ed Pol 330. Prereq: jr st.

532 Male Identity: Education and Development. 3 cr. U/G. Contribution of schools in forming male identity. Changing expectations of men in work, the family and society.|Prereq: jr st.

533 Educating Black Males-Theories, Methods and Strategies. 3 cr. U/G. This course will develop skills and strategies to affect changes in the lives of black males in the school system, k through 12 grade.|Prereq: jr st; Ed Pol 112 or 375 or equiv or teacher certification.

534 The Student at Risk (Causes). 3 cr. U/G. Helps teachers to identify and understand the personal, social, cultural and community contexts which contribute to the at-risk status of public school students.Prereq: jr st.|

535 Educating At-Risk Students. 3 cr. U/G. Development of skills and techniques to enable teachers to be instructionally effective with at-risk students.|Prereq: jr st.

541 Wisconsin Juvenile Justice System and the Law for School Personnel. 1 cr. U/G. Provides students and school personnel with knowledge of Wisconsin juvenile justice system, and legal responsibilities of all school personnel, emphasizing current code.|Prereq: jr st.

550 Comparative Education. 3 cr. U/G. Survey of foreign school systems with attention to cultural setting and major purposes.|Prereq: jr st.

560 Education and Hispanics. 3 cr. U/G. Examination of the educational experiences of Hispanics in schools in the USA.|Prereq: jr st.

561 Education Issues in American Indian Communities. 3 cr. U/G. Unique political-legal, social-cultural contexts of Native Education, intergovernmental involvement and role in addressing social/cultural and developmental needs of tribal societies.|Prereq: jr st or cons instr.

579 Current Topics in Cultural Foundations of Education: (Subtitled). 1-6 cr. U/G. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.|May be retaken w/chg in topic to max of 9 cr, including cr earned under Ed Pol 779. Prereq: jr st.

580 An Overview of Child/Youth Care. 3 cr. U/G. Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.|Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other. Prereq: jr st or cons instr.

581 Youth Work Practice. 3 cr. U/G. Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.|Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other. Prereq: jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.

582 Operations Management in Early Childhood Programs. 3 cr. U/G. An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.|Jointly offered with & counts as repeat of Ad Ldsp 582. Prereq: jr st; Ad Ldsp 581(P); or cons instr.

584 Early Childhood Programs and the External Environment. 3 cr. U/G. Examines external influences that impact daycare. Students explore issues of culture, community, diversity, and policy as well as technical issues related to program quality.|Prereq: jr st & Ad Ldsp 581(P); or cons instr.

585 Supervised Practicum in Child and Youth Care. 2-4 cr. U/G. Supervised practicum in residential agencies and settings which utilize child and youth care workers and serve behaviorally, cognitively and/or physically disabled youth. |Ed Pol/ExcEduc 585 are jointly offered & count as repeats of each other. Prereq: jr st; Ed Pol/ExcEduc/Soc Wrk 580(P), or grad st; cons instr.

597 Public Schools, Church-State Issues: Educational Foundations. 3 cr. U/G. Examination of the intersection between church and state in public education, including historical, legal, and moral issues; discussions of religious conflicts. |Prereq: jr st.

601 Foundations of Community-Based Organizations. 3 cr. U/G. Overview of community based organizations, their structures, functions, & administration. Students will also be taught proposal writing skills. |Prereq: jr st or cons instr.

602 Proposal Writing and Fundraising Skills for Community-Based Organizations. 3 cr. U/G. Course prepares students to research, identify and apply for government funded community programs. |Prereq: jr st.

603 Community Policy Analysis. 3 cr. U/G. Overview of policy analysis theory and approaches and techniques used to make sound policy decisions. |Prereq: jr st or cons instr.

604 Marketing for Community-Based Organizations. 3 cr. U/G. Basic theories of marketing and the application of marketing strategies used by community-based organizations. |Prereq: jr st or cons instr.

605 Community-Based Organization Funding. 3 cr. U/G. Overview of basic fiscal issues (funding types and sources, accountability issues, oversight systems, etc) impacting community-based organizations. |Prereq: jr st or cons instr.

606 Quality Controls and Accountability for Community-Based Organizations. 3 cr. U/G. Introduction to quality controls and accountability tools that community-based organizations need in an era of increased accountability. |Prereq: jr st.

607 Service Learning and Community Engagement. 3 cr. U/G. Examines theories and practices of Service Learning and Community Engagement. Provides frameworks for reflection and action. Explores power, inequality and approaches to social justice. |Part of concentration in Community Engagement and Partnerships. Prereq: jr st or cons instr.

608 Social Media and Technology for Community Engagement. 3 cr. U/G. Introduces a variety of current visions of social media and approaches to community informatics. |Prereq: jr st or cons instr.

609 Community Partnerships. 3 cr. U/G. Explores different partnership environments, including: community-campus partnerships, inter-agency non-profit partnerships; governmental-non-profit partnerships; and public-private partnerships through theory and practice. |Prereq: jr st or cons instr.

610 Reproduction of Minority Communities. 3 cr. U/G. Analysis of the social, economic, and cultural forces behind the formation and reproduction of minority and disadvantaged communities in the United States. |Jointly offered w/& counts as repeat of Sociol 610. Prereq: jr st; any Sociol 100-level course.

611 Community Policies and Urban Minority Youths. 3 cr. U/G. Focus on how community policies impact urban minority youths. |Prereq: jr st.

612 Community Participation and Power. 3 cr. U/G. Strategies for community participation in policy and practice; importance of understanding power relations for success. Students choose individual focus: e.g., housing, public health, education, etc. |Prereq: jr st.

613 Context and Foundations of Educational Policy. 3 cr. U/G. Defines educational policy, studies philosophical, historical, and social contexts of educational policy, examines context of educational policy, and presents contemporary educational concerns. |Prereq: jr st.

615 Service Delivery Policies & Systems for Community-Based Organizations. 3 cr. U/G. Overview of key policies used by community-based organizations in developing service delivery systems.|Prereq: jr st.

620 History of the Education of African Americans. 3 cr. U/G. Study of the history, biographies, trends, cultural influences, and movements in the education of African Americans: Africa to slavery to the present. Comparison with 'white education.'|Prereq: jr st.

621 History of Native Education and Policy Development. 3 cr. U/G. Historic policy development affecting the education of American Indians including the development of schools and the relationship of education to federal Indian policy.|Prereq: jr st or cons instr.

624 Gender and Education. 3 cr. U/G. Overview of the major discussions and debates in the area of gender, focusing on the intersections of gender, race, class, ethnicity, and sexuality.|Prereq: jr st.

625 Race Relations in Education. 3 cr. U/G. Study and analysis of historical and theoretical bases of racism/race relations in america and their influences on contemporary educational policies and practices.|Prereq: jr st.

626 Antiracist Education. 3 cr. U/G. Comparative perspectives on racism and antiracism in society and education.|Counts as repeat of Ed Pol 579 with same topic. Prereq: jr st.

630 Race and Public Policy in Urban America. 3 cr. U/G. Examination of the relationship between race and public policy with emphasis on issues (housing, crime, welfare reform, poverty, employment, discrimination, etc.) impacting urban communities.|Prereq: jr st or cons instr.

633 Community Development for Low-Income and Minority Communities. 3 cr. U/G. Introduction to the principles, ideas, and techniques of community development and the development of minority communities.|Prereq: jr st.

636 Issues in African American Education. 3 cr. U/G. Contemporary issues in African American education, including special education, poverty, and academics, and their historical contexts.|Prereq: jr st.

639 Milwaukee Black Community. 3 cr. U/G. Overview of the social, historical, economic and political developments of Milwaukee's Black community.|Prereq: jr st.

640 The Rise and Fall of America's Southern Civil Rights Movement. 3 cr. U/G. African Americans' struggle for Civil Rights in the South, focusing on issues such as education, housing, and politics; social and historical context for related policies.|Prereq: jr st.

650 The Civil Rights Movement in Northern Cities. 3 cr. U/G. Exploration of the Civil Rights Movement in northern cities, focusing on issues such as education, housing, and politics; social and historical context for related policies.|Prereq: jr st.

660 History of Western Education. 3 cr. U/G. Chronological narrative examining educational systems in western countries through the development of various civilizations from ancient Egypt to Europe.|Prereq: jr st.

688 Fieldwork in Multicultural Education. 1-6 cr. U/G. Fieldwork in multicultural settings appropriate for cultural research, analysis and study. Individualized requirements and evaluation criteria to be determined by faculty on individualized bases.|May be retaken to 6 cr max. Prereq: jr st; cons instr.

698 Fieldwork in International Education. 1-6 cr. U/G. Fieldwork in intercultural settings appropriate for cultural research, analysis and study. Requirements and evaluation criteria to be determined by faculty on individualized basis.|May be retaken to 6 cr max. Prereq: jr st; cons instr.

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ED PSY Educational Psychology

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100 Learning Skills Laboratory. 2 cr. U. |Prereq: none. Not open to jr & sr st except as auditors.

101 Foundations of Academic Success: (Subtitled). 1-2 cr. U. A variable content course designed to increase retention through self-assessment, career exploration, decision-making, study skills, goal setting, and available resources at UWM.|May be retaken w/chg in topic to max of 3 cr. Prereq: none.

104 Pathways to Success at UWM: (Subtitled). 3 cr. U. Provides students with knowledge of and connection to campus resources, helping with study skills and time management in order to be successful at UWM.| May not be retaken for credit. Counts as repeat of Ed Psy 101 with same topic. Prereq: none.

105 Motivation Strategies. 3 cr. U. Enhances student success and retention and helps students create greater success in college and life. Strategies for creating academic, professional, and personal success.|Prereq: none.

110 Planning Your Major, Career. 3 cr. U. Understanding the career planning process for making decisions about academic majors and careers.|Counts as repeat of Ed Psy 101 with same topic. Prereq: none.

212 Career Planning and Development for the Multicultural Workplace. 3 cr. U. Understanding of and preparation for multicultural work environments; critical reflection on cultural identities, connecting personal history to social and historical forces, understanding bias and oppression.|Prereq: OWC-Part A.

220 Positive Psychology Applied to Culture, Learning, & Development. 3 cr. U. Introduction to topics related to happiness and positive aspects of the learning experience, positive psychological constructs that optimize learning.|Prereq: OWC Part A

277 Cross-Cultural Conversations. 3 cr. U. Multicultural dialogue on issues of race, ethnicity, social class, gender, sexual orientation, and other aspects of identity and impacts on personal lives, communities, and society.|Prereq: none.

279 Current Topics in Educational Psychology: (Subtitled). 1-3 cr. U. Specific topic announced in Schedule of Classes each time course is offered; any additional prerequisites are included in announcement.|May be retaken w/chg in topic to max of 9 cr. Prereq: none.

290 Individual Research. 1-3 cr. U. |Prereq: cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

299 Independent Reading. 1-3 cr. U. For benefit of undergraduate students unable to secure needed content in regular courses. | Prereq: cons instr.

301 Successful Career Transitions: Ideas, Strategies, Accomplishments. 2 cr. U. Help for students to clarify post graduation education or employment goals and successfully address employer/career research, resume development, employer targeting, networking and interview preparation. | Credit/No Credit only. Prereq: jr st.

320 Principles of Classroom Appraisal and Evaluation. 2-3 cr. U. Principles of evaluation with major emphasis upon nonstandardized and informal techniques of appraisal. | Prereq: jr st.

325 Practice of Classroom Assessment. 2 or 3 cr. U. Introduces the principles and practices of student-centered classroom assessment. Students gain an understanding of when and how to use a variety of assessment techniques. | 1 cr counts as repeat of Ed Psy 326. Prereq: admis to School of Educ.

330 Introduction to Learning and Development. 3 cr. U. Principles and concepts of learning and development that contribute to the understanding and direction of school learning. | Prereq: soph st.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st, cons instr, acceptance for Study Abroad Prog.

505 Positive Psychology: Theory and Application in Learning Contexts. 1 or 3 cr. U/G. Introduction to positive psychology and its application in school and learning settings. | Prereq: jr st; grade of C or better in English 102(P) or score at level 4 on EPT.

541 Assessment in Science and Math I. 1 cr. U/G. First of a three part assessment series for MACSTEP students. | Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.' Prereq: jr st.

542 Assessment in Science and Math II. 1 cr. U/G. Second in a three part assessment series for MACSTEP students. | Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.' Prereq: jr st.

543 Assessment in Science and Math III. 1 cr. U/G. Third of a three part assessment series for MACSTEP students. | Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.' Prereq: jr st.

550 Social and Affective Issues in Urban Classrooms. 3 cr. U/G. Explore the social/emotional aspects of children's development as related to schooling and present a framework for creating conducive classroom learning environments. | Prereq: jr st; admis to School of Educ.

551 Social and Affective Issues: Case-Based Problem-Solving. 1 cr. U/G. Students will critique various strategies presented in Ed Psy 550 and engage in a problem-solving process focusing on social/emotional issues and classroom interventions. | Prereq: jr st; Ed Psy 550(P).

575 Infant and Early Childhood Assessment. 3 cr. U/G. Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay. | Prereq: jr st or grad st.

579 Current Topics in Educational Psychology: (Subtitled). 1-3 cr. U/G. Specific topic and prerequisites announced in Schedule of Classes each time course is offered. | May be retaken w/chg in topic to max of 9 cr. Prereq: jr st.

613 Infant and Early Childhood Assessment. 3 cr. U/G. Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay. |Counts as repeat of Ed Psy 575. Jointly offered with and counts as repeat of ExcEduc 613. Prereq: jr st.

624 Educational Statistical Methods I. 3 cr. U/G. Overview of common statistical techniques used in educational research, including univariate and bivariate descriptive statistics, inferential statistics, one-way analysis of variance, and linear regression. |Prereq: jr st.

626 Workshop in the Computerized Analysis of Educational Data. 1 cr. U/G. Workshop in designing, implementing and interpreting the computer analysis of survey, research or test-program type data using a popular comprehensive statistical analysis package. |Prereq: jr st & prior or conc reg in applied statistics course. Additional work required for grad cr.

631 Cognition: Learning, Problem Solving and Thinking. 3 cr. U/G. Overview of historical theories of learning and current theories of cognition. Emphasis on application to instruction, school subjects, workplace training, self-directed learning. |Prereq: jr st.

637 The Psychology of Informal Learning Contexts. 3 cr. U/G. Overview of theory and research about how people learn in informal contexts, i.e. after-school settings, online immersive environments, science centers, museums and cultural institutions. |Prereq: jr st.

640 Human Development: Theory and Research. 3 cr. U/G. Survey of theory and research in human development from conception to death, emphasizing the child and adolescent periods of growth. |Prereq: jr st.

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ELECENG Electrical Engineering

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101 Fundamentals of Electrical Engineering. 3 cr. U. Principles of electrical engineering including intro to fundamental electrical quantities and circuit analysis. Lab with reinforcing experiments, introduction to electrical test equipment, computer simulation techniques, and team project. | Counts as repeat of ElecEng 299 with same topic. Prereq: Math 116(C).

150 Electronic Technology in the World Around Us. 3 cr. U. An introductory course that explains the modern technology affecting our everyday life. Topics include: digital communication, satellites, television, stereo system, computer, radar, microwaves, lasers. | Prereq: none.

234 Analytical Methods in Engineering. 4 cr. U. Mathematical techniques for linear systems. Solutions of ordinary differential equations by classical and transform techniques. Elementary aspects of linear algebra. Complex Numbers. | Prereq: Grade of C or better in Math 232(P).

299 Topics in Electrical Engineering: (Subtitled). 1-3 cr. U. Work on new material in electrical engineering. Section title and credits announced whenever course is offered. | May be retaken w/chg in topic to max of 6 cr max. Prereq: specific courses dependent on topic.

301 Electrical Circuits I. 3 cr. U. Circuit laws and analysis, resistive circuits, energy storage, AC circuits and power, three-phase circuits, computer-aided analysis. | Prereq: Physics 210(C) or 220(C).

305 Electrical Circuits II. 4 cr. U. Transformers, transient response, network functions, s-domain, response, filters, fourier analysis, two-ports. 3 hr Lec/2 hr Lab. | Prereq: ElecEng 301(P) & 234 (P).

305 (effective 09/04/2018) Electrical Circuits II. 4 cr. U. Transformers, transient response, network functions, s-domain, response, filters, fourier analysis, two-ports. 3 hr Lec/2 hr Lab. | Prereq: C or better in ElecEng 234(P); ElecEng 301(P).

306 Introduction to Electrical Engineering. 4 cr. U. An introduction to electrical circuits with laboratory. Topics include dc and ac circuits, signal transients, motors, transformers and operational amplifiers. | Prereq: Physics 210(P); ElecEng 234(P).

310 Signals and Systems. 3 cr. U. Analysis techniques for signals and systems in both continuous and discrete time.

Signal representation, including fourier and laplace transforms; system definitions and properties.|Prereq: ElecEng 305(C).

330 Electronics I. 4 cr. U. Op-amps, diodes, bipolar junction transistors, mos field effect circuit applications.|Counts as repeat of ElecEng 331. Prereq: ElecEng 305(C).

335 Electronics II. 4 cr. U. CMOS Logic Gates, Differential and multistage amplifiers, IC techniques, frequency response. |Counts as repeat of ElecEng 332. Prereq: ElecEng 330(P), 310(C).

354 Digital Logic. 3 cr. U. Number systems and binary codes; Boolean Algebra and basic results; switching functions; minimization techniques; analysis and design of combinational and sequential logic circuits.|Prereq: CompSci 240(P) or 250(201)(P).

361 Electromagnetic Fields. 3 cr. U. Principles of electrostatics and electromagnetics; laws of fields; resistance, inductance, and capacitance; dielectrics; energy storage; Maxwell's field equation.|Prereq: grade C or better in Physics 210(P) & 215(P) or Physics 220(P); ElecEng 234(P); grade C or better in Math 233(P).

362 Electromechanical Energy Conversion. 4 cr. U. Principles of electrical and electromechanical energy conversion; transformers, polyphase induction and synchronous machines, d.c. machines, single phase motors, including design parameters and testing; with lab (3 hr lec recitation & 2 hr lab per week).|Prereq: ElecEng 305(P) & ElecEng 361(P).

367 Introduction to Microprocessors. 4 cr. U. Fundamentals of microprocessors, including assembly language programming, hardware design, interfacing peripherals and programmable I/O devices, and social/ethical issues in engineering design and practice. Lab.|Prereq: CompSci 240(P) or 250(201)(P); & C or better in ElecEng 354(P).

410 Digital Signal Processing. 3 cr. U/G. Spectral computation including DFT and FFT, sampling of continuous signals, digital filter design including FIR and IIR filters.|Prereq: jr st; ElecEng 310(P).

420 Random Signals and Systems. 3 cr. U/G. Fundamental probability and random process theory, power spectral density. Linear systems and random signals, auto- and cross-correlation, optimum MSE filter design.|Prereq: jr st; ElecEng 310(P); or grad st.

421 Communication Systems. 3 cr. U/G. Basic concepts of information; modulation, transmission and demodulation; presentation of information; practical communication systems.|Prereq: jr st; ElecEng 335(C).

430 Energy Modeling. 3 cr. U/G. Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software.|Jointly offered with and counts are repeat of MechEng 430. Prereq: jr st; or cons instr.

436 Introduction to Medical Instrumentation. 3 cr. U/G. Biopotential signals and electrodes; Biopotential Amplifiers and Signal Processing; Sensors, Detectors, and Sources; Electrical Safety; Specifications; Error Analysis; Device Approval Process.|Prereq: jr st; ElecEng 305(P) or equiv.

437 Introduction to Biomedical Imaging. 3 cr. U/G. Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.|Prereq: sr st; ElecEng 310(P) or equiv.

439 Introduction to Biomedical Optics. 3 cr. U/G. Tissue Optical Properties, Light Transport, Fourier Transforms in Spatial Domain, Wave theory, Spectroscopy, Optical imaging, Laser-Tissue interaction, Photoconversion, Photodynamic Therapy, Microscopy, Fluorescence imaging, and OCT.|Prereq: jr st; ElecEng 310(P) & 361(P).

451 Introduction to VLSI Design. 3 cr. U/G. Introduction to design of VLSI circuits. Ic fundamentals including: energy band diagrams, transistor optimization, design approaches including both customs and semi-custom.|Prereq: jr st; ElecEng 330(P), 354(P).

457 Digital Logic Laboratory. 3 cr. U/G. Digital design using a hardware description language and FPGAs. Topics include VHDL, Design Methodologies, Finite State Machines, Multiple clock domains, Timing Analysis, Simulation and Verification. |Prereq: jr st, ElecEng 354(P).

458 Computer Architecture. 3 cr. U/G. Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures. |Jointly offered with & counts as repeat of CompSci 458. Prereq: jr st; ElecEng 354(P), C or better in CompSci 315(P) or ElecEng 367(P).

461 Microwave Engineering. 3 cr. U/G. Review from electromagnetics, transmission lines and waveguides; impedance matching, passive components, stripline and microstrip line circuits, dielectric waveguide, laboratory experiments, industrial and biomedical applications. |Prereq: jr st; ElecEng 361(P) or equiv.

462 Antenna Theory. 3 cr. U/G. Analysis and design of antennas: antenna fundamentals; wire antennas; dipole, monopole, and loop antennas; antenna arrays; aperture antennas; horn, slot, and parabolic dish antennas. |Prereq: jr st; ElecEng 361(P).

464 Fundamentals of Photonics. 3 cr. U/G. Fundamentals of ray, electromagnetic, and beam optics; polarization and polarization-based devices; optics of layered media; and guided-wave optics, including optical fibers. |Prereq: jr st & ElecEng 361(P); or grad st.

465 Broadband Optical Networks. 3 cr. U/G. Multichannel lightwave systems based on wavelength-division, time-division, and subcarrier multiplexing; optical devices and coding techniques for implementing optical networks. |Counts as repeat of ElecEng 490(690) w/same topic. Prereq: jr st; ElecEng 305(P) & 361(P); or grad st.

471 Electric Power Systems. 3 cr. U/G. Elements of a typical power system. Per-unit quantities; load flow study; economic dispatch; symmetrical components; fault study; system protection; stability. |Prereq: jr st; ElecEng 362(C).

472 Introduction to Wind Energy. 3 cr. U/G. Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection. |MechEng 472 & ElecEng 472 are jointly offered; they count as repeats of one another. Prereq: jr st; or cons instr.

474 Introduction to Control Systems. 4 cr. U/G. Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains. |Prereq: jr st; ElecEng 310(P), CompSci 240 (P); or grad st.

482 Introduction to Nanoelectronics. 3 cr. U/G. Wave properties of electrons, diffraction, Schrödinger's equation, quantum confinement, band theory, tunnel junctions, Coulomb blockade, quantum dots and wires, quantum conductance and ballistic transport. |Prereq: jr st; ElecEng 330(C), ElecEng 361(C).

490 Topics in Electrical Engineering: (Subtitled). 1-3 cr. U/G. Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered. |May be retaken w/chg in topic to max of 9 cr. Prereq: jr st.

541 Integrated Circuits and Systems. 3 cr. U/G. Differential and operational amplifier circuits. Linear integrated circuits: comparators, regulators, amplifiers and phase locked loops. Digital integrated circuits: mos shift registers, ram, a-to-d converters. |Prereq: jr st; ElecEng 330(P).

545 FPGA Embedded CPUs & Firmware Development. 3 cr. U/G. Use of modern embedded system central processor units (CPUs) with integrated field-programmable gate arrays (FPGAs). Design and implementation of firmware for these devices. |Jointly offered with & counts as repeat of ElecEng 545. Prereq: jr st; ElecEng 367(P) & 457(P).

562 Telecommunication Circuits. 3 cr. U/G. Radio frequency communication systems, terrestrial and satellite

communication systems, mixers, oscillators, filters, design considerations for receivers and transmitters. | Prereq: sr st; ElecEng 330(P).

565 Optical Communication. 3 cr. U/G. Overview of communication systems, light and electromagnetic waves, optical fibers, lasers, led, photodetectors, receivers, optical fiber communication systems. | Prereq: sr st; ElecEng 361(P), & 330(P) or 465(P).

568 Applications of Digital Signal Processing. 3 cr. U/G. Introduction to the use of modern digital signal processor (DSP) units in DSP applications such as digital filtering and speech signal processing. | Counts as repeat of ElecEng 490 and 890 w/similar topic; Prereq: ElecEng 310(P), 367(P).

572 Power Electronics. 3 cr. U/G. Power diodes and transistors; static converters; D.C. power supplies; power transistor circuits; SCR's; classical and modern forced-commutation inverters; choppers; cycloconverters, applications in power. | Prereq: sr st; ElecEng 335(C).

574 Intermediate Control Systems. 3 cr. U/G. State space; frequency domain methods of modelling, analysis and design of control systems; digital control; and multivariate systems. | ElecEng 574(503) & MechEng 574(478) are jointly offered & count as repeats of each other. Not open for cr to students who have cr in ElecEng 503(ER) or MechEng 478(ER). Prereq: sr st; MechEng 474(P) or ElecEng 474(402(P)); or grad st.

575 Analysis of Electric Machines and Motor Drives. 3 cr. U/G. Reference frame analysis, computer simulation, permanent magnet synchronous machines, induction machines, power electronic inverters, pulsewidth modulation, vector control. | Prereq: jr st, ElecEng 330(P) & 362(P).

588 Fundamentals of Nanotechnology. 3 cr. U/G. Nanofabrication, self-assembly, principles of scanning tunneling/atomic force microscopy, operators, energy quantization; density of states, quantum dots, nanowires, carbon nanotubes: electronic properties and applications. | Prereq: jr st; non-ElecEng majors; ElecEng 361(P) or equiv.

595 Capstone Design Project. 4 cr. U. Team project in simulated industrial environment. Each team develops solutions to complex real world design problems and reports results in professional writing and oral presentation. | Counts as repeat of ElecEng 355. Prereq: sr st; ElecEng 335(P), ElecEng 367(P).

599 (390) Senior Thesis. 1-3 cr. U. Independent research under the direction of a faculty member; submission of a written thesis is required. 3 cr total required. | May be retaken to max of 3 cr. Prereq: sr st & cons instr.

699 Independent Study. 1-3 cr. U/G. | May be retaken to max of 6 cr toward the undergraduate degree. Prereq: jr st; cons instr.

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EAS Engineering & Applied Science

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1 Engineering Co-op Work Period. 1 cr. U. One semester work period in an industrial environment.|Cr/No cr only. May be retaken but only 3 cr count toward graduation. Prereq: prior cons co-op dir.

100 (effective 09/04/2018) CEAS Freshman Orientation. 1 cr. U. An introduction to problem solving in engineering and computer science.|Credit/No Credit grading option only. Prereq: none.

100 CEAS Freshman Orientation. 1 cr. U. An introduction to problem solving in engineering and computer science.|Credit/No Credit grading option only. Prereq: none.

200 Professional Seminar. 1 cr. U. Professional orientation and career planning. Current issues in the profession.|Prereq: none.

290 Topics in Engineering and Applied Science: (Subtitled). 1-3 cr. U. Lectures on new introductory material in engineering and applied science. Variable-content course.|May be retaken with change in topic. Prereq: specified in semester Schedule whenever required for topic.

297 Study Abroad: (Subtitled). 1-5 cr. U. Designed to enroll students in UWM sponsored program. Course work, content, and credits determined at the time of offering.|Retakable with change in topic to 12 cr max. Prereq: acceptance to Study Abroad Prog; cons CEAS assoc dean for academic prog.

299 Independent Study. 1-3 cr. U. Independent study on a topic of choice. Credit hours to be arranged between student and staff on an individual basis.|May be retaken for degree cr. Prereq: cons instr.

350 Senior Leadership Seminar. 1 cr. U. Elements of historical and modern social and professional leadership, preparing for a leadership position in industry, leadership and entrepreneurship, engineering management techniques.|Prereq: sr st.

497 Study Abroad: (Subtitled). 1-5 cr. U/G. Designed to enroll students in UWM sponsored program. Course work, level, content, and credits determined at the time of offering.|May be retaken w/chg in topic to 12 cr max for undergrad & 9 cr max for grad. Prereq: acceptance to Study Abroad Prog; cons CEAS assoc dean for academic prog.

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ENGLISH English

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299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

310 Writing, Speaking, and Technoscience in the 21st Century. 3 cr. U. Theories and practices of communicating about science and technology. | Satisfies OWC-B GER. Prereq: satisfaction of OWC-A GER or cons instr.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; satisfaction of GER English Composition competency req, add'l prereqs may be assigned to specific topic.

A. Individual Study

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. | May be retaken w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

289 Internship in English, Lower Division. 1-6 cr. U. Application of basic principles of English in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: satisfaction of GER English Composition competency req; 2.25 gpa; C or better in English 201(P), 202(P), 205(P), 208(P), 233(P), 234(P), 236(P), 230(P), or 240(P), cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

298 Undergraduate Lower-Division Service Learning. 1 cr. U. Faculty-supervised placement of students as community service volunteers. | May be retaken to 3 cr max. Prereq: conc reg in English 100- or 200-level service learning course.

398 Undergraduate Upper-Division Service Learning. 1 cr. U. Faculty-supervised placement of students as community service volunteers. | May be retaken to 3 cr max. Prereq: conc reg in English 300-level or above service learning course.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

699 Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of an English faculty or instructional academic staff member. Student must submit a study proposal. For further information, consult assistant chair/undergraduate program coord. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

B. Basic Courses in Composition

90 Basic Writing. 0 cr. U. Sustained writing and revision to develop fluency in articulating ideas and familiarity with writing conventions. Fourth instructional hr required. | May not be taken cr/no cr. Audit not allowed. Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Prereq: level 0 on English Placement Test.

95 Fundamentals of Composition. 0 cr. U. Critical reading and writing, with an emphasis on the processes of writing and revision. Students produce a portfolio of revised essays. | May not be taken cr/no cr. Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Prereq: level 0 on English Placement Test.

100 Introduction to College Writing and Reading. 4 cr. U. Critical reading and writing, with emphasis on the processes of writing, revision, and academic conventions. Students produce a portfolio of revised essays. | Weekly Writing Center session req'd. May not be taken cr/no cr. Not open to students who have taken English 101. Prereq: level 1 on English Placement Test.

101 Introduction to College Writing. 3 cr. U. Critical reading, writing, and revision, with an emphasis on reflective inquiry and academic writing conventions. Students produce a portfolio of revised essays. | May not be taken cr/no cr. Not open to students who have taken English 100. ESL 118 counts as a repeat of English 101. Prereq: Level 2 on English Placement Test or grade of C or better in English 095.

102 College Writing and Research. 3 cr. U. Extensive engagement with academic research writing and reflective analysis. Students will produce a portfolio of revised writing. | May not be taken cr/no cr. Counts as repeat of English 112, Honors 102, 112. Prereq: level 3 on English Placement Test or grade of C or better in English 100(P) or 101(P) or EAP 101(P) or 118(P).

105 College Writing Workshop. 1 cr. U. Workshop on strategies for revising and editing college writing. | Credit/no credit only. Prereq: grade of C or better in English 095(P) or Level 1 on English Placement Test; conc reg in English 101(C).

201 Strategies for Academic Writing. 3 cr. U. Intensive practice in expository writing designed to continue development of already proficient writers. | Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

202 Writing in the Humanities. 3 cr. U. Development of styles and modes of literary and academic discourse in

response to essays and literary works touching on a common theme.|Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

205 Business Writing. 3 cr. U. Instruction and practice in writing business reports, memos, and letters. Particularly appropriate for students in business and related areas.|May not be taken cr/no cr. Prereq: soph st; grade of C or better in English 102(P) or score at level 4 on EPT.

206 Technical Writing. 3 cr. U. Instruction and practice in writing technical reports, proposals, and other technical writing forms. Particularly appropriate for students in science, engineering, architecture, and other applied sciences.|May not be taken cr/no cr. Counts as repeat of English 206X. Prereq: satisfaction of GER English Composition competency req.

207 Health Science Writing. 3 cr. U. Instruction and practice in writing reports and research papers for health science professions. Particularly appropriate for students in health related fields, including pre-medical, dental, etc.|May not be taken cr/no cr. Prereq: satisfaction of GER English Composition competency req.

208 Writing and Research. 3 cr. U. Extensive practice in gathering information, evaluating sources, interviewing, writing research papers, and bibliographical methods.|Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

214 Writing in the Professions: (Subtitled). 3 cr. U. Adaptation of writing to situations and requirements of specific professional writing genres, such as criminal justice, government, and environmental writing.|May be retaken w/chg in topic; no cr limit. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

218 Veterans Re-Entry Writing Workshop. 2 cr. U. Instruction in a combination of stress reduction and journaling techniques designed to ease readjustment to civilian life, tap into creative capacities, and boost writing skills.|Prereq: prior military service or cons instr.

230 Writing with Style. 3 cr. U. Students develop and enhance their expository writing style by reading short essay selections and writing in a variety of rhetorical forms, styles, and modes.|Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

233 Introduction to Creative Writing. 3 cr. U. An introduction to the writing of poetry and fiction.|Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

234 Writing Fiction: Structure and Technique. 3 cr. U. Readings and discussion demonstrating the basic structural and technical elements of modern fiction, with opportunities for practice.|Prereq: Satisfaction of OWC-A GER

235 Writing Poetry: Forms, Styles, Voices. 3 cr. U. Readings and discussion demonstrating traditional and contemporary forms, with opportunities for practice.|Prereq: Satisfaction of OWC-A GER.

236 Introductory Topics in Creative Writing: (Subtitled). 3 cr. U. Instruction and practice in genres other than fiction and poetry.|May be retaken w/chg in topic to 6 cr max. Prereq: English 233(203)(P) or 234(P).

240 Rhetoric, Writing, and Culture: (Subtitled). 3 cr. U. Major concerns in cultural criticism, including race, gender, class, cultural identity, technology, and ideology; examines how rhetoric, writing, and media influence our thinking about these concerns.|May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

C. Introductory Language and Literature

150 Multicultural America. 3 cr. U. Cross-cultural study of U.S. ethnic and racial identities through materials

from literature, history, and the media, with attention to African-, Asian-, Hispanic-, and Native American experiences. | Cultures and Communities Prog course; req'd service learning component. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First Year Sem (course numbers 192, 193, 194). Prereq: none.

209 Language in the United States. 3 cr. U. Survey of the languages of the U.S., discussing social and political aspects of language use and issues of interethnic communication. | Prereq: none.

210 International English. 3 cr. U. Varieties of English spoken around the world; history and spread of English; use of English as a national and international language. | Prereq: none.

210 (effective 09/04/2018) Global Englishes. 3 cr. U. Varieties of English spoken around the world; history and spread of English; use of English as a national and international language. | Prereq: none.

211 Aspects of the English Language: (Subtitled). 3 cr. U. Introductory projects in such areas as social or specialized usages, modern grammars, dialects, English language history, theoretical and practical studies of language in literary forms. | May not be retaken for cr. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

212 Grammar and Usage. 3 cr. U. The basic concepts and categories of English grammar, with emphasis on usage and writing problems. | Prereq: none.

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. | Jointly offered with, & may be used to repeat, Classic 213, French 213, German 213, Italian 213, Linguis 213, Polish 213, Russian 213, & Spanish 213. Prereq: none.

215 Introduction to English Studies. 3 cr. U. Writing-intensive introduction to multiple forms and contexts of literary and nonliterary texts and discourses in English, in a cultural, historical, and global framework. | Required for English & secondary education English majors. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

221 English Writers to 1800. 3 cr. U. Works of English literature from Anglo-Saxon period through the eighteenth century. Combines close reading with study of historical and cultural context of literature. | Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

222 English Writers, 1800 to the Present. 3 cr. U. Works of English literary tradition from the Romantics through the present. Combines close reading with study of historical and social context of literature. | Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

223 American Writers to 1900. 3 cr. U. Works of American literature from colonial times through Whitman and Twain. Combines close reading with study of the historical and cultural context of literature. | Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

224 American Writers: 1900 to the Present. 3 cr. U. Works of American literature from late nineteenth century to the present. Combines close reading with study of the historical and cultural context of literature. | Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

229 Introduction to Modern Literature: (Subtitled). 3 cr. U. Works in the modern tradition from the 1910's to the present. | May be retaken w/chg in topic to 9 cr max. With 'Backgrounds' subtitle, counts as a repeat of English 225; with 'Modern Developments' subtitle counts as a repeat of English 226. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

243 Introduction to Literature by Women: (Subtitled). 3 cr. U. Ways in which women have expressed their views of women's roles and goals in literature. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

245 The Life, Times, and Work of a Literary Artist: (Subtitled). 3 cr. U. A writer in a cultural, historical, and biographical context. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

247 Literature and Human Experience: (Subtitled). 3 cr. U. Focus upon the portrayal of a universal theme in literature of the past and present. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

248 Literature and Contemporary Life: (Subtitled). 3 cr. U. Literary portrayal of the character issues and concerns of the contemporary world as reflected in literature. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

251 Fantasy in Literature: (Subtitled). 3 cr. U. Forms of fantasy in literature from the medieval period to the present. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

252 Mystery and Detective Fiction: (Subtitled). 3 cr. U. Selected works of detective fiction by theme, type, period, or origin. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

253 Science Fiction: (Subtitled). 3 cr. U. Selected works of literary science fiction by theme, type, period, or origin. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

260 Introduction to Poetry: (Subtitled). 3 cr. U. Selected works of poetry by theme or type. | May be retaken w/chg of topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 of EPT.

261 Introduction to Short Stories: (Subtitled). 3 cr. U. Selected short stories by theme, type, period, or origin. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

262 Introduction to Drama: (Subtitled). 3 cr. U. Selected plays of the English-speaking theater by theme, type, period, or origin. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

263 Introduction to the Novel: (Subtitled). 3 cr. U. Selected novels from the English-speaking world by theme, type, period, or origin. | May be retaken w/chg of topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

268 Introduction to Cultural Studies: (Subtitled). 3 cr. U. Theories, subject matters, and core texts of the interdisciplinary field of cultural studies. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

269 Literary Forms and Genres: (Subtitled). 3 cr. U. A literary form or genre such as essay, satire, tragedy, etc. | May be retaken w/chg of topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 of EPT.

274 Literature and the Other Arts: (Subtitled). 3 cr. U. Selections from literary studies in connection with works from the other arts ranging from the Middle Ages to the present. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

275 The Forms of Folk Literature: (Subtitled). 3 cr. U. Folk literature as a literary type with emphasis on varying ethnic groups. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

276 Introduction to American Indian Literature: (Subtitled). 3 cr. U. Literature of the American Indian, focusing on major forms, prominent themes, or a particular tribe or time period. | AIS 276 & English 276 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

277 Introduction to Ethnic Minority Literature: (Subtitled). 3 cr. U. A survey covering literature by three or more of the following ethnic groups: African American, American Indian, Asian American, U.S. Latino/a, and Caribbean American. | May be retaken w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

278 Introduction to World Literatures Written in English: (Subtitled). 3 cr. U. The literature of a particular region or regions of the English-speaking world. | May be retaken w/chg of topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 of EPT.

279 Introduction to U.S. Latino/a Literature: (Subtitled). 3 cr. U. Latino/a American literature with a focus on region, genre, theme, or period. | May be retaken w/chg in topic to a 9 cr max. English 279 & Latino 279 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

280 Introduction to Asian-American Literature: (Subtitled). 3 cr. U. Asian-American literature with focus on region, genre, theme, or period. | May be retaken w/chg of topic to 9 cr max.. Prereq: grade of C or better in English 102(P) or score at level 4 of EPT.

281 Introduction to African-American Literature: (Subtitled). 3 cr. U. African-American literature with a focus on region, genre, theme, or period. | May be retaken w/chg in topic to 9 cr max. Prereq grad of C or better in English 102(P) or score at level 4 of EPT.

285 Modern Irish Language and Literature in Translation. 3 cr. U. Major works of literature written in Irish Gaelic, eighth century to present day, in bilingual (Irish/English) texts. | Celtic 285 & English 285 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

D. Introductory Film/Media/Digital Studies

111 Entertainment Arts: Film, Television, and the Internet. 3 cr. U. History of film, television, and the internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form. | ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another. Prereq: none

286 Writing about Film and Television. 3 cr. U. Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives. | English 286 & FilmStd 286 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

290 Introduction to Film Studies. 3 cr. U. Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking. | English 290 & FilmStd 290 are jointly offered; they count as repeats of one another. Prereq: none.

291 Introduction to Television Studies. 3 cr. U. The forms, images, and narratives particular to television. |English 291 & FilmStd 291 are jointly offered; they count as repeats of one another. Prereq: none.

292 Classic Dramas in Film: (Subtitled). 1 cr. U. A sampling of great plays in film versions, with performances by acclaimed actors. |Offered on a cr/no cr basis. May be retaken w/chg in topic to 3 cr max. English 292 & FilmStd 292 are jointly offered; w/same topic, they count as repeats of one another. Prereq: none.

293 Literature and Media: (Subtitled). 3 cr. U. A study of novels, essays, magazines, newspapers, advertisements, and films in order to disclose similarities and differences in their use of rhetorical strategies. |May be retaken w/chg in topic to 9 cr max. English 293 & FilmStd 293 are jointly offered; w/same topic, they count as repeats of one another. Prereq: soph st.

294 Game Culture. 3 cr. U. Critical study of games, digital and otherwise; forms, conventions, and practices that inform design and reception of games; place of games in contemporary culture. |Counts as repeat of English 380 w/same topic. English 294 & FilmStd 294 are jointly offered; they count as repeats of one another. Prereq: GER OWC-A.

295 Women and Film. 3 cr. U. A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture. |English 295 & FilmStd 295 are jointly offered; they count as repeats of one another. Prereq: soph st.

E. Historical Concentration

301 Survey of English Literature, Beginnings to 1500. 3 cr. U. Writers and literary trends of the Old English and medieval period, with emphasis on their historical, social, and cultural context. |Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

302 Survey of English Literature, 1500-1660. 3 cr. U. Writers and trends of the English literature in the period 1500-1660, with emphasis on historical, social, and cultural context. |Recom in prep for English 452, 453, 454 & 456. Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

303 Survey of English Literature, 1660-1798. 3 cr. U. Writers and trends in English Literature, 1660-1798, with emphasis on historical, social, and cultural context. |Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

304 Survey of English Literature, 1798-1900. 3 cr. U. Writers and trends in English Literature, 1798-1900, with emphasis on historical, social, and cultural context. |Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

305 Survey of English Literature: 1900 to the Present. 3 cr. U. Writers and trends of English Literature since 1900, with emphasis on historical, social, and cultural context. |Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

306 Survey of Irish Literature. 3 cr. U. Irish literature from earliest times through the Literary Renaissance--folklore, saga, bardic poetry; poetry, fiction, and drama of the nineteenth century to the present. |Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

307 Survey of American Literature to 1865. 3 cr. U. Writers and trends in American Literature before 1865, with emphasis on historical, social, and cultural context. |Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

308 Survey of American Literature, 1865-1965. 3 cr. U. Writers and trends of American Literature, 1865-1965,

with emphasis on historical, social, and cultural context.|Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

309 Survey of Contemporary American Literature. 3 cr. U. Writers and trends of American Literature after 1965, with emphasis on historical, social, and cultural context.|Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

F. Genre Concentration-Prose Fiction

325 The Art of Fiction: (Subtitled). 3 cr. U/G. Study of novels or short stories through a unifying theme, set of technical problems, or critical concepts.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

326 The Development of the Novel: (Subtitled). 3 cr. U/G. Major artistic, social and intellectual events in the history of the novel from its origins to the present.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

327 The Development of the Short Story. 3 cr. U/G. Major artistic, social and intellectual events in the history of the short story from the nineteenth century to the present.|Prereq: jr st; satisfaction of GER English Composition competency req.

328 Forms of Experimental Literature: (Subtitled). 3 cr. U/G. Approaches to forms of literature that stress experimentation, innovation and the radical alteration of existing forms.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER Composition competency req.

G. Genre Concentration-Drama

341 The Development of Drama: (Subtitled). 3 cr. U/G. A historical approach, with emphasis on new ideas in the theatre, new techniques, and the evolution of genres.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

342 Comedy: (Subtitled). 3 cr. U/G. Works from the comic tradition with focus on theme, genre, region, or historical development.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

343 Tragedy: (Subtitled). 3 cr. U/G. Works from the tragic tradition with focus on theme, genre, region, or historical development.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

344 Modern Drama: (Subtitled). 3 cr. U/G. Topics vary. American and English dramatists since 1920, with emphasis on their stage approach, their use of language; and themes of illusion, communication, and identity.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st, satisfaction of GER English Competency req; 6 cr in courses approved for hum distr cr.

H. Genre Concentration-Poetry

360 The Art of Poetry: (Subtitled). 3 cr. U/G. Inquiry into the art of poetry, with readings from a variety of poets.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

361 The Development of Poetry: (Subtitled). 3 cr. U/G. A study of significant intellectual, artistic, or social events in the history of poetry.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of GER

English Composition competency req.

363 Medieval Epic and Romance. 3 cr. U/G. Study of the traditions of medieval English epic and romance through an examination of representative medieval works.|Prereq: jr st; satisfaction of GER English Composition competency req.

I. Genre Concentration-Other Genres

332 Gay and Lesbian Literature: (Subtitled). 3 cr. U. Examines themes in modern literature about sexual identity and community.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

366 Non-Fiction Prose: (Subtitled). 3 cr. U. A form of non-fiction such as the essay, biography, etc.|May be retaken w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

370 Folk Literature: (Subtitled). 3 cr. U/G. A study of a particular form or forms of folk literature or the folk literature of a designated region or ethnic group.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

372 Survey of American Indian Literature. 3 cr. U. A general, representative study of the literature of the American Indian.|AIS 372 & English 372 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

373 Survey of Ethnic Minority Literature. 3 cr. U. A general, representative study of the literature of two or more ethnic minority groups.|Prereq: jr st; satisfaction of GER English Composition competency req.

374 Survey of U.S. Latino/a Literature. 3 cr. U. A general, representative study of U.S. Latino/a literature.|English 374 & Latino 374 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

375 Survey of Asian American Literature. 3 cr. U. A general, representative study of Asian-American literature written since 1930.|Prereq: jr st; satisfaction of GER English Composition competency req.

376 Survey of African-American Literature to 1930. 3 cr. U. A general, representative study of African-American literature before 1930.|Prereq: jr st; satisfaction of GER English Composition competency req.

377 Survey of African-American Literature, 1930 to the Present. 3 cr. U. A general, representative study of African-American literature written since 1930.|Prereq: jr st; satisfaction of GER English Composition competency req.

378 Survey of Current Literary and Cultural Theory. 3 cr. U. A general, representative study of current critical approaches to literary and cultural studies, including basic terminology and concrete application.|Prereq: jr st; satisfaction of GER English Composition competency req.

381 World Literatures Written in English: (Subtitled). 3 cr. U. A general, representative study of the literature of an area of the English-speaking world, e.g. Canada, Australia, etc.|May be retaken w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

J. English Language Concentration

400 Introduction to English Linguistics. 3 cr. U/G. Application of linguistic theory and techniques to modern English. English/Linguis 400 required of all English majors and minors in School of Education.|Jointly-offered with & counts as repeat of Linguis 400. Prereq: jr st; satisfaction of GER English Composition competency req.

401 History of the English Language. 3 cr. U/G. The origins of the English language and its changing structure.|Prereq: jr st; satisfaction of GER English Composition Competency req.

402 Theories of Language and Literature: (Subtitled). 3 cr. U/G. Various topics involving some theoretical aspect(s) of language and literature.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st, satisfaction of GER English Composition competency req; an intro course in linguistics (e.g. English/Linguistics 400, English 401, or Linguistics 350).

403 Survey of Modern English Grammar. 3 cr. U/G. Studies in elements of grammar, noun and verb phrase, clause and sentence connection, and complex noun phrase.|Prereq: jr st; satisfaction of GER English Composition competency req.

404 Language, Power, and Identity. 3 cr. U/G. The use of distinctive language varieties to construct identity and maintain power relations within a society.|Prereq: jr st; satisfaction of GER English Composition competency req.

406 Advanced English Grammar. 3 cr. U/G. Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax.|English 406 & Linguistics 406 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 403(P).

K. Creative Writing Concentration-Craft Courses

414 Special Topics in Creative Writing: (Subtitled). 3 cr. U/G. Readings, discussion and assigned writing in specialized areas of creative writing.|May be retaken w/chg in topic to 9 cr max. May not be retaken for major cr. Students may not enroll concurrently in a second section of English 414 or in English 415, 416, 615, or 616. Prereq: jr st; satisfaction of GER English Composition competency req; English 233(P), 234(P), 235(P), or 236(P); or grad st.

415 Fiction Workshop. 3 cr. U. Classroom analysis and discussion of student writing. Content varies.|May be retaken to 6 cr max. Students may not enroll concurrently in a second section of English 415 or in English 414, 416, 615, or 616. Prereq: jr st; satisfaction of GER English Composition competency req; English 233(P) or 234(P).

416 Poetry Workshop. 3 cr. U. Classroom analysis and discussion of student poetry. Content varies.|May be retaken to 6 cr max. Students may not enroll concurrently in a second section of English 416 or in English 414, 415, 615, or 616. Prereq: jr st; satisfaction of GER English Composition competency req; English 233(P) or 235(P).

417 Readings for Writers: (Subtitled). 3 cr. U. A literature course exploring literary traditions, formal or aesthetic problems of interest to creative writers.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of English Composition competency req; English 233(203)(P), 234(P), 235(P), or 236(204)(P).

418 Literary Journal Production. 3 cr. U. Develop a working understanding of the editorial, design, production, and promotional processes at the heart of successful literary and arts journals.|Counts as repeat of English 414 w/same topic. Prereq: jr st; satisfaction of OWC-A; English 233(P), 234(P), 235(P), or 236(P).

611 The Writer and the Current Literary Scene. 3 cr. U/G. Recent developments in the theory and techniques of contemporary fiction or nonfiction. Especially designed for creative writing students.|Prereq: sr st, satisfaction of GER English Composition competency req, & 3 cr in English 415(P), 416(P), 615(P), or 616(P); or grad st.

612 Poetry and the Creative Process. 3 cr. U/G. The origin and development of poetic ideas and techniques. Designed especially for creative writing students.|Prereq: sr st, satisfaction of GER English Composition

competency req, & 3 cr in English 415(P), 416(P), 615(P), or 616(P); or grad st.

615 Advanced Workshop in Fiction. 3 cr. U/G. Intensive workshop critiques of student writing. Content varies. | May be retaken to 6 cr max. Prereq: sr st, English 415(P), one of second section of English 415(P) or English 414(P) or 416(P), satisfaction of English composition competency; or grad st.

616 Advanced Workshop in Poetry: (Subtitled). 3 cr. U/G. Intensive workshop critiques of student writing. Content varies. | May be retaken to 6 cr max. Prereq: sr st, 3 cr in English 416(P), one of second section of English 416(P) or English 414(P) or 415(P), & cons instr based on writing sample; or grad st.

L. Composition Concentration

425 Advanced Business Writing. 3 cr. U. Advanced strategies in business writing. Special focus on primary research, rhetorical and contextual analysis, problem-solving, collaboration, and persuasive writing. | Not open to students w/cr in English 430(ER). Prereq: jr st; English 205(P).

426 Professional and Technical Communications Research. 3 cr. U. Research (e.g., observations, interviews, surveys, focus groups, card-sorting, usability testing) used by workplace communicators to resolve problems and ensure production of quality, user-based documentation products. | Prereq: jr st or cons instr.

427 Writing for Nonprofits. 3 cr. U/G. Persuasive writing of advocacy genres, such as reports, letters, websites, and social media, produced by nonprofit organizations. Focus on theory, practice, collaboration, and service learning. | No cr for students w/cr in English 431 w/same topic. Prereq: jr st.

428 Strategic Writing for Organizations. 3 cr. U. Analysis and creation of written responses to a wide variety of organization issues, exigencies, and crises. | Counts as repeat of English 428X. Prereq: jr st; satisfaction of GER English Composition competency req

429 Technical Communications and Professional Leadership. 3 cr. U. Technical writing and communication concepts for understanding leadership and problem-solving in organizations. | Counts as repeat of English 429X. Prereq: jr st; satisfaction of GER English Composition competency req.

430 Advanced Writing Workshop. 3 cr. U/G. A tutorial course in advanced exposition. Individual assignments and conferences. Enrollment limited to 12 students. | Prereq: jr st; satisfaction of GER English Composition competency req.

431 Topics in Advanced Communications: (Subtitled). 3 cr. U/G. Seminar in the history, theory, or practice of professional, technical, medical, or science communications. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

432 The Rhetoric of Argument. 3 cr. U. Analytical survey of rhetorical methods and forms in argumentative discourse, the role of audience in argumentation, and 'fields' of argument. | Prereq: jr st; satisfaction of GER English Composition competency req; grade of C or better in English 102(P), 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), or 240(P).

433 Creative Nonfiction for Publication. 3 cr. U/G. Writing in a variety of creative nonfiction formats, using literary techniques. Preparation of articles for submission to magazines, newspapers, newsletters, and educational publications. | Prereq: jr st; satisfaction of GER English Composition competency req.

434 Editing and Publishing. 3 cr. U/G. Training and practice in editorial procedures; preparation of fiction/nonfiction manuscripts for book or journal publication; editorial rewriting; editing; copyediting; proofreading; fundamentals of layout/design. | Prereq: jr st; satisfaction of GER English Composition competency req; 6 cr in English 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), 233(P), 234(P), 235(P), 236(P),

240(P), 414(P), 415(P), 416(P), 430(P), 431(P), 432(P), 433(P), 435(P), 436(P), 437(P), 615(P), or 616(P).

435 Professional and Technical Communications. 3 cr. U/G. The process of communications development in business, industry, and government, with intensive practice and analysis of professional writing and publishing techniques and products. |Prereq: jr st; English 205(P), 206(P), or 207(P), or cons instr.

436 Technical Documentation. 3 cr. U/G. Theory, methods, and practice in writing clear, concise technical instructions; audience analysis, customer requirements, information architecture, training materials, web projects, and emerging technology discussion topics. |Prereq: jr st; English 206(P) & 435(P) or cons instr.

437 Project Management for Professional Writers. 3 cr. U/G. Major stages of the writing process in workplace contexts: research, analysis, project planning and management, document design, usability testing, and revision. |Counts as repeat of English 437X. Prereq: jr st; satisfaction of GER English Composition competency req; English 205(P), 206(P), or cons instr.

438 Advanced Research Writing. 3 cr. U/G. Intensive instructions in methods and writing for research papers: audience analysis, bibliographic methods, computer searches, interpretation of data, style guides, abstracts and summaries and the publication process. |Prereq: jr st; English 208(P) or cons instr.

439 Information Design. 3 cr. U/G. Development of technical communication projects for external clients, applying theories from graphic design, usability, cognitive psychology, and technical communication. |Prereq: jr st; English 205(P), 206(P), or 207(P), or cons instr.

440 Introduction to Peer Tutoring and Practice. 3 cr. U/G. Students explore their own writing practices in light of rhetorical theory and learn to tutor others. |Prereq: jr st; satisfaction of English Composition competency req, & English 201(P), 202(P), 205(P), 206(P), 207(P), or 233(P) w/grade of B- or better or cons instr; or grad st.

441 Advanced Peer Tutoring Theory and Practice. 3 cr. U/G. Students will examine various theories of literacy and learning, applying these theories to peer tutoring practice and testing their sufficiency through case-study research. |Prereq: English 440(P) or cons instr.

442 Writing Center Tutoring Practicum. 1 cr. U/G. For prospective tutors, a foundation of concentrated study and practice to begin tutoring in UWM's Writing Center. |Prereq: jr st; cons instr.

443 Grant Writing. 3 cr. U/G. Theory, methods, and practice in writing clear, concise grant proposals and related documents; audience analysis, rhetorical approaches, research methods, and online grantseeking. |Counts as repeat of English 431 w/same topic. Req'd service learning component. Prereq: jr st; satisfaction of GER English Composition competency req.

444 Technical Editing. 3 cr. U/G. Theories, methods, and practice in editing professional and technical documents; grammar and usage; copyediting and comprehensive editing; editor-writer relationship; rhetorical, social, and audience analysis. |Counts as repeat of English 431 w/same topic. Prereq: jr st; satisfaction of GER English Composition competency req.

445 The Composing Process: (Subtitled). 3 cr. U/G. Issues in composition studies, such as the theory and practice of writing, evaluation and assessment, and collaborative learning. |May be retaken w/chg in topic to 9 cr max for undergrads or 6 cr max for grads. Prereq: jr st, satisfaction of GER English Composition competency req, or cons instr; or grad st.

448 Technical Communications Theory and Practice. 3 cr. U. Orientation to the technical communications field through service learning experience in which students write for organizations. Application of technical communications theory to practice. |Service Learning course. Prereq: jr st; completion of GER English Composition competency req; conc reg in English 398(C).

449 Writing Internship in English. 1-4 cr. U. Experience in a professional setting that enables English majors to apply course work and writing skills and to gain experience toward career goals. | May be retaken to 9 cr max. Prereq: jr st, satisfaction of GER English Composition competency req, declared English major, & C or better in English 414(P), 415(P), 416(P), 430(P), 431(P), 432(P), 433(P), 434(P), 435(P), 436(P), 437(P), 438(P), 445(P), or 447(P); or grad st in English prog; writ cons instr.

M. Advanced Film/Media/Digital Studies

312 Topics in Film Studies: (Subtitled). 3 cr. U. Study of stylistic, generic, historical, or theoretical issues in film studies. | May be retaken w/chg in topic to 9 cr max. English 312 & FilmStd 312 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P).

316 World Cinema: (Subtitled). 3 cr. U. National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms. | Retakable w/chg in topic to 9 cr max. CompLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st or English 290(P); satisfaction of OWC-A.

320 Studies in Film Authorship: (Subtitled). 3 cr. U. The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star. | May be retaken w/chg in topic to 9 cr max. English 320 & FilmStd 320 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st or English 290(P); satisfaction of GER English Composition competency req.

329 Film and Literature. 3 cr. U/G. Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode. | English 329 & FilmStd 329 are jointly offered; they count as repeats of one another. Prereq: jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.

380 Media and Society: (Subtitled). 3 cr. U/G. An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary. | May be retaken w/chg in topic to 9 cr max. English 380 & FilmStd 380 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; English 290(P) or 291(P) or 6 cr in courses approved for hum breadth cr.

383 Cinema and Genre: (Subtitled). 3 cr. U/G. Stylistic and thematic analyses of literary and film genres (e.g., melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre. | May be retaken w/chg in topic to 9 cr max. English 383 & FilmStd 383 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P) or 6 cr in courses approved for hum breadth cr.

390 Classical Film Criticism and Theory. 3 cr. U/G. Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing. | English 390 & FilmStd 390 are jointly offered; they count as repeats of one another. Prereq: jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.

391 Television Criticism and Theory. 3 cr. U/G. Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts. | English 391 & FilmStd 391 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.

393 Entertainment Industries: (Subtitled). 3 cr. U. In-depth look at contemporary media industries both in the U.S. and globally. Emphasis on changing content, production and viewing practices. | English 393 & FilmStd 393 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/change in topic to 9 cr max. Prereq: jr st; satisfaction of OWC-A; English 290(P), English 291(P), or cons instr.

394 Theories of Mass Culture: (Subtitled). 3 cr. U/G. A survey of theories of mass culture relative to film from the late 19th century to the present. |May be retaken w/chg in topic to 9 cr max. English 394 & FilmStd 394 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.

N. Other Advanced Courses

446 Global Business Communications. 3 cr. U. Instruction and practice in business writing in the global context. Particularly appropriate for students in business and international studies. |May not be taken cr/no cr. Counts as repeat of English 214 or 431 w/same topic. Prereq: jr st; Satisfaction of OWC-A.

451 Chaucer. 3 cr. U/G. Linguistic and intellectual traditions exemplified in Chaucer's poetry. |Prereq: jr st; satisfaction of GER English Composition competency req.

452 Shakespeare. 3 cr. U/G. Works representing Shakespeare's career, selected from comedies, tragedies, histories, and poems. |May be used as a repeat of 453 for students who have not taken English 452 previously. Prereq: jr st; satisfaction of GER English Composition competency req.

454 Milton. 3 cr. U/G. Milton's English poetry and selections from his prose. |Prereq: jr st; satisfaction of GER English Composition competency req.

455 Writers in Drama: (Subtitled). 3 cr. U/G. A significant dramatist or a combination of playwrights. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

456 Writers in English Literature, 1500-1660: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

457 Writers in English Literature, 1660-1798: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

458 Writers in English Literature, 1798-1900: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

459 Writers in English Literature, 1900 to the Present: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

460 Writers in American Literature, 1500-1900: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

461 Writers in American Literature, 1900 to the Present: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

463 Writers in African-American Literature: (Subtitled). 3 cr. U/G. A significant figure or figures in African-American literature. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

465 Women Writers: (Subtitled). 3 cr. U/G. One or more significant women writers. |May be retaken w/chg in

topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

500 Studies in Medieval and Early Modern Literature: (Subtitled). 3 cr. U/G. Major genres, themes, and figures of the Middle Ages through a reading of representative works.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

501 Studies in Literature, 1500-1660: (Subtitled). 3 cr. U/G. Critical study of major genres, themes, figures, tenets, aspects, influences and trends in the literature of the period.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

504 Studies in Literature, 1660-1800: (Subtitled). 3 cr. U/G. Major genres, themes, figures and trends in the literature of the period.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

505 Studies in Literature, 1800-1900: (Subtitled). 3 cr. U/G. Major genres, themes, figures and trends in the literature of the period.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

507 Studies in Literature, 1900 to the Present: (Subtitled). 3 cr. U/G. Major genres, themes, figures and trends in the literature of the period.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

514 Literature in Context: (Subtitled). 3 cr. U. Critical study of literary works in philosophical, social, scientific, or theological context.|May be retaken w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

515 Literature and the Other Arts: (Subtitled). 3 cr. U/G. Critical study of literary works in combination with works from the other arts.|May be retaken w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

517 Studies in African-American Literature: (Subtitled). 3 cr. U/G. Major genres, themes, figures and trends in African-American literature.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

518 Studies in Irish Literature: (Subtitled). 3 cr. U/G. Major genres, themes, figures and trends in Irish literature.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

520 Studies in American Indian Literature: (Subtitled). 3 cr. U. Critical study of themes, figures, aspects, trends, etc., in American Indian literature.|AIS 520 & English 520 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

521 Studies in Ethnic Minority Literature: (Subtitled). 3 cr. U. Critical study of themes, figures, aspects, trends, etc., in ethnic-American literature|May be retaken w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

522 Studies in World Literature Written in English: (Subtitled). 3 cr. U. Critical study of themes, figures, aspects, trends, etc., in the literature of a particular region of the English-speaking world.|May be retaken w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

523 Studies in U.S. Latino/a Literature: (Subtitled). 3 cr. U. Critical study of themes, figures, aspects, trends, etc., in U.S. Latino/a literature.|May be retaken w/chg in topic to 9 cr max. English 523 & Latino 523 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

req.

524 Studies in Asian-American Literature: 3 cr. U. Critical study of themes, figures, aspects, trends, etc., in Asian-American literature. May be retaken w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

525 American Indian Literature, Culture, and Creative Arts. 3 cr. U/G. Critical methods in understanding indigenous literature, cultures, and creative arts; uses of arts in indigenous cultures; how arts influence people's views of indigenous peoples. AIS 525 & English 525 are jointly offered; they count as repeats of one another. Prereq: jr st; completion of GER English Composition competency req.

530 Studies in Shakespeare: (Subtitled). 3 cr. U. An examination of a particular aspect of Shakespeare's literary and dramatic achievements, this course will focus on a specific genre, technique or prevailing theme. May be retaken w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

545 Studies in the History of Literary Criticism: 3 cr. U. May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

547 Studies in Theory and Criticism: (Subtitled). 3 cr. U/G. Topics, trends, or approaches in theory and criticism. May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

565 Introduction to Adult/University Level TESOL. 3 cr. U/G. Overview of the various approaches to teaching English as a second language (ESL) to adult/university-level learners. Jointly-offered w/& counts as repeat of Linguis 565(426). Does not satisfy requirements in School of Educ. Prereq: jr st; satisfaction of GER English Composition competency req.

567 Materials for ESL Instruction. 3 cr. U/G. Designed for prospective ESL/EFL teachers. Focus on planning and designing courses to meet the needs of specific populations of language learners. English 567 & Linguis 567 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; cons instr.

569 Practicum in Adult/University TESOL. 3 cr. U/G. A structured, supervised practicum in language teaching to students in the adult/university TESOL certificate program. English 569 & Linguis 569 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; cons instr.

620 Seminar in the Art of Literature: (Subtitled). 3 cr. U/G. Intensive study of a literary form or genre, or selected works from varying genres, with emphasis on elements of invention, innovation and craft. May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

621 Seminar in the Literature of England: (Subtitled). 3 cr. U/G. Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of English literature. May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

622 Seminar in Irish Literature: (Subtitled). 3 cr. U/G. Specific themes, critical or aesthetic issues, or generic development, in one or more periods of Irish literature. May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

623 Seminar in American Literature: (Subtitled). 3 cr. U/G. Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of American literature. May be retaken w/chg in topic to 6

cr max. Prereq: sr st, satisfaction of GER English Composition competency req; 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

624 Seminar in Modern Literature: (Subtitled). 3 cr. U/G. Focus upon specific themes, critical or aesthetic issues, or significant innovations in modern literature, viewed in a cross-cultural or contemporary context. |May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

625 Seminar in Literary History: (Subtitled). 3 cr. U/G. An intensive study of literature within its historical dimension, stressing the goals and methods of historical criticism and research in connection with specific periods, topics or traditions. |May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

626 Seminar in Critical Theory: (Subtitled). 3 cr. U/G. An investigation into one or more critical theories and their contribution to the study of literature. |May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

627 Seminar in Literature and Culture: (Subtitled). 3 cr. U/G. Intensive study of literature within its cultural context, stressing goals and methods of cultural criticism and research in connection with specific issues or topics. |May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

628 Seminar in Literature by Women: (Subtitled). 3 cr. U/G. Focus on major writers or themes, or on a body of work that represents a variety of perspectives on gender issues. |May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

629 Seminar in Literature and Sexuality: (Subtitled). 3 cr. U/G. Intensive study of the relationship between literature and human sexuality, focusing on particular periods, topics, or critical and aesthetic issues. |May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

630 Seminar in Literature and the Other Arts: (Subtitled). 3 cr. U/G. Selections from literature in connection with works from the other arts ranging from the Middle Ages to the present, stressing the importance of an inter-arts perspective. |May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

631 Seminar in African-American Literature: (Subtitled). 3 cr. U/G. Focus upon major writers or themes, or on a body of work that represents a variety of perspectives on African-American experience. |May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English &/or CompLit at the 300-level or above; or grad st.

632 Seminar in American Indian Literature: (Subtitled). 3 cr. U/G. Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian. |AIS 632 & English 632 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.

633 Seminar in Rhetoric and Writing: (Subtitled). 3 cr. U/G. Examination of a topic in rhetorical theory and its intersections with related fields such as cultural studies, literary criticism, literacy theory, or composition studies. |May be retaken w/chg in topic to 6 cr max. Satisfies L&S Seminar req. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

634 Seminar in English Language Studies: (Subtitled). 3 cr. U/G. Examination of a topic in the study of the

English language, providing an opportunity to investigate an issue in language studies in depth. | May be retaken w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

685 Honors Seminar: (Subtitled). 3H cr. U. Investigation in depth of a period, figure, theme, or genre in English or American literature. | May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

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EAP English for Academic Purposes

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60 Reading and Interactive Writing. 0 cr. U. Reading comprehension and writing skills; strategies to prepare students for academic and professional life. | May be retaken. No-cr course, contact EAP prog for course fees. Prereq: acceptance into EAP Prog; cons EAP dir.

70 Speaking and Listening. 0 cr. U. Conversational English skills in preparation for academic and professional life. | May be retaken. No-cr course, contact EAP prog for course fees. Prereq: acceptance into EAP Prog; cons EAP dir.

80 Grammar and Writing. 0 cr. U. Formal writing and grammar skills in preparation for academic and professional life. | May be retaken. No-cr course, contact EAP prog for course fees. Prereq: acceptance into EAP Prog; cons EAP dir.

90 Cooperative and Productive Skills. 0 cr. U. Integrated skills course assesses interactive speaking and listening plus one productive language skill at the appropriate CEFR level. Students work together to create a product. | May be retaken. No-cr course, contact EAP prog for course fees. Prereq: acceptance into EAP Prog; cons EAP dir.

100 (effective 09/04/2018) Introduction to College Writing for Multilingual Students. 4 cr. U. Opportunities for multilingual students to improve their analytical reading and academic writing skills while offering intensive language work and individualized instruction. | Counts as repeat of 4 cr of combined EAP 116 & 117. Prereq: English Placement Test for Non-Native Speakers of English (EPT-NNSE) Score of 2, ESL-PIC score of 1, 2, or 3, or Grade of C or better in EAP 115(P) or 116(P) or 110(P).

100 Introduction to College Writing for Multilingual Students. 4 cr. U. Opportunities for multilingual students to improve their analytical reading and academic writing skills while offering intensive language work and individualized instruction. | Counts as repeat of 4 cr of combined EAP 116 & 117. Prereq: English Placement Test for Non-Native Speakers of English (EPT-NNSE) Score of 2, ESL-PIC score of 1, 2, or 3, or Grade of C or better in EAP 115(P) or 116(P).

101 College Writing for Multilingual Students/English 101. 3 cr. U. Prepares and qualifies multilingual writers for English 102. Writing analytical essays based on academic reading. | Counts as repeat of EAP 118. Prereq: English Placement Test for Non-Native Speakers of English (EPT-NNSE) Score of 3 or ESL-PIC score of 4 or Grade of C or better in EAP 117(P) or grade of C or better in English 100(P) or EAP 100(P).

105 Skills for Academic Reading Success. 3 cr. U. Introduces ESL students to academic reading strategies and builds

basic reading competence in English. Uses high-interest materials to invite engaging class discussions. |Open only to students who are non-native speakers of English. Prereq: ESL-PIC score of 0.

110 College Reading and Writing Skills for Multilingual Students. 4 cr. U. Opportunities for multilingual students to develop reading comprehension and critical reading skills along with basic composition skills, including individualized, grammar-based instruction. |Counts as repeat of 4 cr of EAP 105 & 115. Prereq: English Placement Test for Non-Native Speakers of English (EPT-NSE) Score of 1 or self-placement.

115 Basic Writing in English as a Second Language. 6 cr. U. Introduction to academic writing practices. Intensive grammar review and vocabulary expansion with individualized instruction. Extensive reading and writing. |For non-native speakers of English. No cr for students with cr in EAP 116. Prereq: score at level 1 on ESL-PIC test.

116 Introduction to College Writing in English as a Second Language. 6 cr. U. Rigorous introduction to academic writing practices, including reading-based writing. Thorough review of grammar, with individualized instruction. Extensive reading and writing. |Prereq: score at level 2 on ESL-PIC test; or grade C or better in EAP 115(P).

117 College Writing in English as a Second Language. 6 cr. U. Guidance in analytical reading and academic writing plus intensive language work, with individualized instruction. Extensive reading and writing. |Prereq: score at level 3 on ESL-PIC test; or grade C or better in EAP 116(P).

118 Advanced College Writing in English as a Second Language/English 101. 3 cr. U. Prepares and qualifies ESL writers for English 102. Writing analytical essays based on academic reading. |Counts as repeat of English 101. Prereq: score at level 4 on ESL-PIC test; or grade C or better in EAP 117(P); or grade B or better in EAP 116(P) & cons instr.

120 (ESL 120) Grammar and Editing in English for Multilingual Students. 3 cr. U. Grammar instruction and writing. Individual feedback given in conferences with instructor. |Open only to undergraduates who are non-native speakers of English. Prereq: none.

135 (ESL 135) Basic Skills in Academic Listening & Speaking. 3 cr. U. Academic presentation and lecture note-taking skill development for English learners with no previous formal instruction in these areas. |Open only to undergraduate students who are non-native speakers of English. Prereq: none.

145 (ESL 145) Practice in Academic Listening and Speaking. 3 cr. U. Academic presentation and lecture note-taking skill development for English learners with previous formal instruction in these areas. |Open only to undergraduate students who are non-native speakers of English. Prereq: none.

199 (ESL 199) Independent Study. 1-3 cr. U. For further information, consult dept chair. |May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

299 (ESL 299) Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

420 (ESL 420) Advanced Reading, Writing, and Grammar Tune-up for Internationals. 4 cr. U. Refinement of advanced undergraduate and graduate students' language control; extensive reading, writing, and contextualized grammar; focus on American academic expectations. Intensive individual conferences. |May enroll in one fall and one spring term to a combined total of 8 cr max. Prereq: jr st.

435 (ESL 435) Advanced Listening, Speaking, and Notetaking Skills for Internationals. 4 cr. U. Refinement of advanced undergraduate and graduate students' listening and speaking skills and pronunciation. Focus on American academic expectations. Intensive individual conferences target unique needs. |May enroll in one fall and one spring term to a combined total of 8 cr max. Prereq: jr st.

499 (ESL 499) Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

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CES Conservation & Envir Sciences

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199 Independent Study. 1-3 cr. U. For further information, consult dept chair. |Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

210 Introduction to Conservation and Environmental Science. 3 cr. U. Relations between human populations and resource depletion, pollution and ecosystem disturbance; search for solutions. Discussion section includes some community activities with environmental organization. 2 hrs lec, 1 hr dis |Prereq: none.

289 Internship in Environmental Studies, Lower Division. 1-6 cr. U. Application of basic principles of environmental studies in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in CES; 2.50 gpa; cons supervising faculty member.

290 Seminar: Cool Power to Slow Global Warming. 3 cr. U. Climate change - myth? science? Global warming causes; energy for sustainability; non-renewable (coal, oil, nuclear power), renewable (sun, wind, hydro, biomass, biogas) sources; predictions for 2050. |Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. |Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

451 Field Methods in Conservation. 3 cr. U/G. Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab. |Jointly offered with and counts as repeat of Bio Sci 451. Prereq: jr st; Bio Sci 310(P) or equiv or cons instr.

461 The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. |CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) or cons instr.

471 Practicum in Natural Resources Management. 4 cr. U/G. Preparation and presentation of a natural resource or environmental management plan for a real-world client. 3 hrs lec, 1 hr dis.|Prereq: sr st; Bio Sci 310(P); declared CES major; or cons instr.

489 Internship in Environmental Studies, Upper Division. 1-6 cr. U. Application of advanced principles of environmental studies in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Conservation & Environmental Sciences; 2.5 gpa; cons supervising faculty member.

490 Senior Seminar: Conservation and Environmental Science. 1 cr. U. Examination of conservation literature and preparation, presentation, and discussion of oral reports by individual students.|Prereq: sr st; Conservation & Environmental Sciences major or Bio Sci major.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

515 Environmental Law for Natural Resource Managers. 3 cr. U/G. Overview of United States environmental and natural resource law.|Counts as repeat of CES 499 with same topic. Prereq: jr st or cons instr.

550 Introduction to Science Interpretation. 3 cr. U/G. Concepts and practices of presenting science information for audience understanding of impact of science on daily life. Interpretation techniques for science content in nonformal settings.|Prereq: jr st; CES 210(P) or cons instr.

551 Application of Science Interpretation. 3 cr. U/G. Building upon CES 550, application of skills and knowledge to interdisciplinary environmental issues.|Prereq: jr st; CES 550(P).

571 Practical Approaches to a Sustainable Future. 3 cr. U. Natural ecological principles used to develop sustainable human-influenced environments. Emphasis on practical solutions to assess and develop alternative sustainable human agroecological models.|Counts as a repeat of CES 499 w/similar topic. Prereq: jr st; grade C or better in CES 210(P).

651 Principles of Stream Management and Restoration. 3 cr. U/G. Stream management and restoration, open-channel hydraulics, stream geomorphology, stable channel design, sediment transport, and in-stream aquatic ecology and riparian corridor habitats.|Prereq: jr st; Bio Sci 310(P) or equiv; Math 211(P) or equiv; or cons instr.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of CES faculty or academic staff member.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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ETHNIC Ethnic Studies, Comparative

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101 The Making of American Cultures: Africans, Europeans, and Indian Nations. (Subtitled). 3 cr. U. Origins and development of racial and ethnic identities in the Americas; specific attention to Wisconsin history; African-American, American Indian, Latino, Euro-American identities; relationships among them. 2 hrs lec, 1 hr dis. |Not retakable for cr; may be repeated for higher grade. Prereq: none.

102 Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity. 3 cr. U. Modern and contemporary social and cultural processes of migration and identity; role of law as 'gatekeeping'; history of nativism, interethnic relations, and community formation. |Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study: Lower Division. 1-3 cr. U. For further information, consult Ethnic Studies coordinator. |Retakable w/chg in topic to 9 cr max. Prereq: 2.25 gpa on at least 12 graded cr; writ cons instr & prog coord.

200 Racial Minorities in the United States. 3 cr. U. A survey of the historical and the contemporary experiences of American Indians, Asians, African-Americans, and Hispanics in the United States. |Prereq: none.

245 Indians, Artists, and Conquistadores: The U.S. Southwest. 3 cr. U. Interaction of diverse Indian, European, and Latino cultures in the U.S. southwest. |Prereq: none.

250 Selected Topics in Ethnic Studies: (Subtitled). 3 cr. U. This course will focus on one individual ethnic group, or one particular aspect of an ethnic group. |Retakable w/chg in topic to 9 cr max. Prereq: none.

255 Migration and Gender: Starbucks, Sex Trafficking, and Nannies. 3 cr. U. Changing roles of women in the global marketplace; effects of migration on gender and family life. |Counts as a repeat of Ethnic 250 with similar title.

Prereq: none.

265 Hmong Americans: History, Culture, and Contemporary Life. 3 cr. U. Hmong American history, the effects of the Vietnam War on Hmong culture, and the history of the resulting refugee immigrants in America. |Ethnic 265 & Hmong 265 are jointly offered; they count as repeats of one another. Prereq: none.

275 Queer Migrations. 3 cr. U. How gender, race, and sexuality shape the migration processes; how concerns about sexuality shape U.S. immigration and citizenship policy; how mass migrations transform diverse queer communities. |No cr for students w/cr in Ethnic 250 w/similar topic. Ethnic 275 & LGBT 275 are jointly offered; they count as repeats of one another. Prereq: none.

285 Cultures of Contemporary Russia. 3 cr. U. Ethnic conflict and struggles over language, territory, culture, and politics after the dissolution of the Soviet Union. |Counts as a repeat of Ethnic 250 w/similar title. Prereq: none.

289 Internship in Ethnic Studies, Lower Division. 1-6 cr. U. Application of basic principles of ethnic studies in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in ethnic; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

325 Gender, Race, and Ethnicity in Milwaukee: (Subtitled). 3 cr. U. Influxes into the U.S. of migrants from Europe, Latin America, and elsewhere; evolution of conflict and division; particular attention to Civil Rights and deindustrialization. |Retakable w/chg in topic to 9 cr max. Prereq: jr st.

350 Advanced Topics in Comparative Ethnic Studies: (Subtitled). 3 cr. U. Various advanced topics in the field of comparative ethnic studies. |Retakable w/chg in topic to 9 cr max. Prereq: Ethnic 101(P); 102(P), or 250(P), or cons instr.

355 Muslims and American Popular Culture. 3 cr. U. History of Muslims in American pop culture; sub-cultures of various Muslim ethnic groups from the perspective of film, literature, and music. |Prereq: jr st or Ethnic 101(P) or 102(P).

375 Global Violence, Disease, and Death. 3 cr. U. Development schemas, health policies, and the role of international organizations in global incidents of suffering, violence, and death. |Prereq: jr st or Ethnic 101(P) or 102(P).

489 Internship in Ethnic Studies, Upper Division. 1-6 cr. U. Application of advanced principles of ethnic studies in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in ethnic stds; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

550 Senior Seminar in Comparative Ethnic Studies: (Subtitled). 3 cr. U. Focus on specific aspects (social, cultural) of ethnic and racial identity, based on readings and presentation of original student research. Topic varies; not retakable for cr. May be repeated for higher grade. Satisfies L&S Seminar req. Prereq: sr st; cons instr.

699 Advanced Independent Work. 1-3 cr. U. See Independent Study. For further information consult Ethnic Studies coord. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

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EXCEDUC Exceptional Education

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200 Fieldwork in Exceptional Education: (Subtitled). 1-4 cr. U. Field experience designed to allow pre-education students to participate and observe in exceptional education setting.|Cr/no cr only. Fieldwork may not be dropped after the second week of classes. May be retaken w/chg in topic to max of 6 cr. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|May be retaken w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

299 Independent Reading. 1-3 cr. U. |May be retaken to max of 6 cr. Prereq: cons instr.

300 The Exceptional Individual. 3 cr. U. An introduction to etiology, historic background, current service provisions, and issues and trends related to individuals with learning, sensory, behavioral, or physical handicapping conditions.|Prereq: none.

301 American Sign Language I. 3 cr. U. This course will introduce basic American Sign Language structure and study of deaf culture. Basic fingerspelling principles are also introduced.|Prereq: none.

302 American Sign Language II. 3 cr. U. This course will continue skills in American Sign Language, fingerspelling and the study of deaf culture.|Prereq: C or better in ExcEduc 301(P) or Level 1 ASLPI score.

303 American Sign Language III. 3 cr. U. Focus is on the development of intermediate level skills in American Sign Language, its structure and study of deaf culture.|Prereq: C or better in ExcEduc 302(P) or Level 1+ ASLPI score

304 American Sign Language IV. 3 cr. U. Focus on the continuing development of intermediate level skills in American Sign Language, its structure and the study of deaf culture.|Prereq: C or better in ExcEduc 303(P) or Level 2 ASLPI score.

305 American Sign Language V. 3 cr. U. Advanced American Sign Language focusing on classifiers, fingerspelling, numeric techniques and grammar.|Prereq: C or better in ExcEduc 304 (P) or Level 2+ ASLPI score.

306 American Sign Language VI. 3 cr. U. Advanced American Sign Language focusing on register, colloquialisms, storytelling and poetry.|Prereq: C or better in ExcEduc 305(P).

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- 320 Introduction to Interpreting: English to American Sign Language. 3 cr. U.** Theoretical and practical examination and development of various techniques of interpreting from English into American Sign Language through discourse analysis. | Prereq: grade of B or better in ExcEduc 303(P).
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- 321 Introduction to Interpreting: American Sign Language to English. 3 cr. U.** Theoretical and practical examination and development of various techniques of interpreting from American Sign Language to English through discourse analysis. | Prereq: grade of B or better in ExcEduc 303(P).
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- 330 Deaf History. 3 cr. U.** History of the Deaf Community in America primarily as well as in other countries. | Prereq: none.
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- 335 Educational Interpreting I. 3 cr. U.** Explores issues related to interpreting for children in settings from pre-kindergarten through elementary. Analysis of impact of transitions on professional roles, responsibilities, and ethics. | Prereq: admis. to ITP program.
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- 336 Postsecondary Interpreting I. 3 cr. U.** Introductory knowledge/skills-based course that examines interpreting in a postsecondary environment, including both the technical college and university level. | Prereq: admis. to ITP program.
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- 337 Video Relay Services Interpreting I. 3 cr. U.** Introductory knowledge/skills-based course that examines interpreting via distance technology, including video relay and video remote interpreting. | Prereq: admis. to ITP program.
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- 338 Introduction to Healthcare Interpreting. 3 cr. U.** Introduction to the unique challenges of and skills for sign language interpreting in medical settings. | Prereq: admis. to ITP.
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- 345 Interpreting Skill Development I: 3 cr. U.** Techniques for changing an auditory English message into American Sign Language and vice versa. | Prereq: jr st & admis to ITP or cons instr.
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- 345 (effective 09/04/2018) Foundations of English to ASL Interpreting. 3 cr. U.** Techniques for changing an auditory English message into American Sign Language and vice versa. | Prereq: jr st & admis to ITP or cons instr.
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- 346 Skill Development: Semantics. 3 cr. U.** Analysis of American Sign Language linguistics semantics. Focus of individual sign meanings, semantic grammar structure including colloquialisms and cultural influences on meanings of signs. | Prereq: C or better in ExcEduc 304(P) or Level 2+ ASLPI score
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- 347 (effective 09/04/2018) Foundations of ASL to English Interpreting. 3 cr. U.** Development of English skills for the purposes of providing appropriate interpretations. | Not open to students with cr in ExcEduc 326(426). Prereq: admis to ITP or cons instr.
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- 347 English Skills Development. 3 cr. U.** Development of English skills for the purposes of providing appropriate interpretations. | Not open to students with cr in ExcEduc 326(426). Prereq: admis to ITP or cons instr.
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- 348 (329) Introduction to the Profession of Interpreting. 3 cr. U.** Introduction to the professions and practices of interpreting. Focus on its history, philosophies, ethics, roles, resources and credentialing within the profession. | Prereq: none.
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- 349 Field work: Interacting in the Deaf Community I. 3 cr. U/G.** Experiences of observation, actual interpreting, sign teaching and interaction with deaf community. Weekly seminar provides forum for feedback and processing experiences. | Not open for cr to students with cr in ExcEduc 322(657). Prereq: jr st, admis to ITP, or cons instr.
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- 350 Interpreting: Spoken English to ASL II. 3 cr. U.** Practical application of the process of taking a spoken English message and converting it into American Sign Language. Emphasis on the consecutive mode. | Not open for cr to students with cr in ExcEduc 315. Prereq: jr st & admis to ITP, or cons instr.

351 Interpreting ASL to Spoken English II. 3 cr. U. Continues to develop the skill of changing a message signed in ASL into spoken English. Consecutive mode practiced; individual appointments emphasized. |Not open for cr to students with cr in ExcEduc 316. Prereq: admis to ITP, ExcEduc 345(P).

352 American Deaf Culture. 3 cr. U. The impact of Deaf culture on the Deaf community and Deaf education, understanding the Deaf person in a cultural context. |Not open for cr to students with cr in ExcEduc 340(650). Prereq: none.

353 Introduction to Culturally Diverse Community Resources. 3 cr. U/G. Overview of community resources serving consumers with hearing impairments. Professionals and consumers from agencies and organizations will address needs as they relate to interpreting. |Not open for cr to students with cr in ExcEduc 342(421). Prereq: jr st & admis to ITP, or grad st, or cons instr.

354 Field work: Interacting in the Deaf Community II. 3 cr. U/G. Continuation of ExcEduc 349: requires time observing, interpreting, teaching and community interaction. Weekly seminars continue to provide forum for processing of experiences. |Not open for cr to students with cr in ExcEduc 323(658). Prereq: jr st & admis to ITP, & ExcEduc 349(P); or grad st.

355 Interpreting: ASL to Spoken English III. 3 cr. U. Developing intermediate to advanced skills in simultaneously converting American Sign Language to spoken English. |Not open for cr to students with cr in ExcEduc 318 or 319. Prereq: ExcEduc 345(P) & 350(P); & admis to ITP.

356 Transliteration II. 3 cr. U. Skills and theory necessary to change a spoken English message into the form of a signed English message and vice-versa. |Not open for cr to students with cr in ExcEduc 327 or 328. Prereq: admis to ITP, or cons instr.

357 Issues and Trends for Educational Interpreters. 3 cr. U. Historical and current issues affecting the education of students who are deaf and hard-of-hearing and their influence on the field of educational interpreting. |Prereq: admis to ITP.

358 ASL/English Linguistics I. 3 cr. U/G. The linguistics of American Sign Language, exploring its structure and grammar, emphasizing its phonology and its comparison to English. |Prereq: C or better in ExcEduc 306(P).

359 Fieldwork: Interacting in the Deaf Community III. 3 cr. U. Continuation of ExcEduc 323: requires greater emphasis on interpreting, less on observation, teaching and community interaction. Weekly seminar continues for processing of experiences. |Not open for cr to students with cr in ExcEduc 324. Prereq: ExcEduc 354(P) or 349(P); & admis to ITP.

360 Transliteration/Oral I. 3 cr. U. Introduction of the mechanics and skills needed for Transliteration and Oral Interpreting. |Not open to students with cr in ExcEduc 320. Prereq: admis to ITP, ExcEduc 350(P) & 355(P); or cons instr.

361 Interpreting: Spoken English to ASL III. 3 cr. U. Developing intermediate to advanced skills in simultaneously converting spoken English into American Sign Language. Students will work with a variety of stimulus materials. |Not open for cr to students who have cr in ExcEduc 321. Prereq: admis to ITP, ExcEduc 351(P) & 355(P), or cons instr.

362 Specialized Interpreting Across Diverse Settings. 3 cr. U. Guidelines for interpreting, transliterating, and voicing in a variety of settings, including vocational, legal, health related and performing arts. |Prereq: admis to ITP.

363 ASL/English Linguistics II. 3 cr. U/G. Focus on the linguistics of American Sign Language, including emphasis on its morphology and syntax and its comparison to English. |Prereq: jr st, C or better in ExcEduc 358(P), or cons instr.

364 Fieldwork: Interacting in the Deaf Community IV. 6-12 cr. U. Continuation of ExcEduc 359: requiring 70%

focus on actual interpreting, the remainder on observation, teaching and community interaction. Seminar offers forum for processing experiences. |May be retaken to 12 cr max. Not open for cr to students with cr in ExcEduc 325. Prereq: ExcEduc 354(P) & 359(P) & admis to ITP.

365 Educational Interpreting II. 3 cr. U. Issues related to interpreting for children from 6th through 12th grade. Use of various sign systems in educational settings, working conditions and attitudes, and DPI certification issues. |Prereq: admis. to ITP.

366 Postsecondary Interpreting II. 3 cr. U. Advanced knowledge/skills-based course that examines interpreting in a postsecondary environment, including technical college and university level. |Prereq: admis. to ITP.

367 Video Relay Services Interpreting II. 3 cr. U. Continuation of the VRS Foundations I course and will continue to be a knowledge/skills-based course that examines interpreting via distance technology, including video relay and video remote interpreting. |Prereq: admis. to ITP.

368 Medical and Mental Healthcare Interpreting. 3 cr. U. Explores unique challenges of sign language interpreting in medical and mental health settings. Variety of settings and the systems and structures for patient care. |Prereq: admis. to ITP.

371 Strategies for the National Interpreter Certification Exam. 1 cr. U. Techniques and strategies for the knowledge and ethical skills required for the RID-NIC Knowledge Exam. |Prereq: grade of B- or better in ExcEduc 354(P).

372 Interpreter Training Program Capstone. 3 cr. U. Integrates coursework, knowledge, skills and experiential learning to enable the student to demonstrate a broad mastery of learning across the curriculum for a promise of employability and further career advancement. |Prereq: ExcEduc 364(C).

375 Using Technology for Teaching and Learning. 1 cr. U. Introduce students to various forms of technology used in the PK-12 classrooms. |Jointly offered with and counts as repeat of CurrIns 375. Prereq: none.

376 Understanding and Developing the edTPA. 1 cr. U. In-depth overview of all components of the edTPA; practice of skills including video recording, uploading and compressing video, writing summaries. |Credit/no credit only. Jointly offered with and counts as repeat of CurrIns 376. Prereq: none.

377 Wisconsin Foundations of Reading. 1 cr. U. Foundational literacy assessment and instruction for diverse learners to prepare for the Wisconsin Foundations of Reading test. Focus on reading development grades PreK-8. |Jointly offered with and counts as repeat of CurrIns 377. Credit/No Credit only. Prereq: none.

456 Seminar in Student Teaching. 1-3 cr. U. Discussion seminar designed to bring continuity to the professional semester. Material will relate directly to the concurrent practicum experience of the students. |Prereq: jr st & conc reg in student teaching.

472 Student Teaching with Students Having Hearing Impairments. 1-12 cr. U. |May be retaken to 15 cr max. Prereq: sr st & cons dept; ExcEduc 650(P).

473 Student Teaching with Students Having Cognitive Disabilities. 1-12 cr. U. |May be retaken to 15 cr max. Prereq: sr st & cons dept; ExcEduc 640(P).

475 Student Teaching with Students Having Emotional Disturbance. 1-12 cr. U. |May be retaken to 15 cr max. Prereq: sr st & cons dept; ExcEduc 620(P).

478 Student Teaching with Students Having Learning Disabilities. 1-12 cr. U. |May be retaken to 15 cr max. Prereq: sr st & cons dept; ExcEduc 610(P).

481 Student Teaching with Students Having Early Childhood Exceptional Ed Needs. 1-12 cr. U. |May be retaken

to 18 cr max. Prereq: sr st & cons dept; ExcEduc 630(P).

486 Linking Seminar: Developing Reflective Practice. 1-3 cr. U. Links formal course work and teaching experience. Focus on teaching in urban schools, accommodating diverse learners developing reflective practice and/or creating a professional development portfolio.|Cr/no cr only; May not be retaken for cr. Prereq: admis to School of Educ.

487 Linking Seminar II: Primary/Middle-Behavioral Support, Planning, Assessment. 1 cr. U. Links formal course work and teaching experience. Focus on becoming a reflective practitioner and development as a special education teacher.|Cr/no cr only; prereq: jr st; admis Post-Bac Cert prog or cons instr.

488 Linking Seminar: Professional Development. 1 cr. U. Links formal coursework and teaching experience. Focus on teacher as advocate and change agent and professional development.|Cr/no cr only; Prereq: jr st; admis to School of Educ.

488 (effective 09/04/2018) Linking Seminar: Professional Development. 1 cr. U/G. Links formal coursework and teaching experience. Focus on teacher as advocate and change agent and professional development.|Cr/no cr only; Prereq: jr st; admis to School of Educ.

489 Linking Seminar II: Middle/High-Behavioral Support, Planning & Assessment. 1 cr. U. Links formal coursework and teaching experience. Focus on organizing for instruction and emotional/behavioral support at the middle and high school level.|Prereq: ExcEduc 635(C) & 587(C); admis to ExcEduc prog; or cons instr.

496 Linking Seminar III: Middle/High - Professional Development. 1 cr. U. Links formal course work and teaching experience. Focus on supporting students with behavioral challenges, planning for and managing day-to-day teaching responsibilities, transition planning.|Cr/no cr only; Prereq: admis to School of Educ.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|May be retaken w/chg in topic. Prereq: jr st, cons instr, acceptance for Study Abroad Prog.

500 Fingerspelling & Numbers. 3 cr. U/G. Introduction to fingerspelling and numbers in ASL.|Prereq: jr st; C or better in ExcEduc 304(P) or Level 2+ ASLPI score.

503 Job Development and On the Job Support for Students with Disabilities. 3 cr. U. Overview of the career development process and a person-centered framework for job development and job support.|Prereq: ExcEduc 679(P)

505 Transition Assessment for Individuals with Disabilities. 3 cr. U. Transition assessments related to training, education, employment, and living skills for students with disabilities.|Prereq: ExcEduc 679(P) or cons instr.

507 Linking Academics and Self-Determination to Transition Planning. 3 cr. U. Youth development and the importance of preparing youth to take the lead in their education, career development, and community participation.|Prereq: ExcEduc 679(P) or cons instr.

510 Classifiers. 3 cr. U/G. Study of the classifier system of ASL.|Prereq: jr st; C or better in ExcEduc 305(P) or 306(P).

520 ASL Literature. 3 cr. U/G. Introduction to the analysis of ASL Literature.|Prereq: jr st; C or better in ExcEduc 305(P) or 306(P).

531 Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language. 3 cr. U/G. Understanding the needs of secondary level students with handicaps, emphasizing methods of assessment and programming in mainstreamed settings.|Counts as repeat of ExcEduc 530 and 605. Prereq: jr st & admis to School of Educ; or grad st.

532 Assessment and Monitoring. 3 cr. U/G. Roles and responsibilities in district-wide and alternative assessment, developing monitoring systems, report writing, equitable and just assessment practices.|Prereq: admis to Post-Bac Cert

prog or cons instr.

533 Assessment/Monitoring : Deaf & Hard of Hearing. 1 cr. U/G. Roles and Responsibilities in District-Wide and Alternative Assessment, Developing Monitoring Systems, Report Writing Promotive, Equitable and Just Assessment Practices.|Prereq: admis to Post-Bac Cert prog or cons instr.

536 Inclusion for Secondary Science and Math Educators. 1 cr. U/G. History and legislation related to Special Education, characteristics of various disabilities, overview of universal design for learning (UDL), and accommodations and modifications of curriculum and instruction to meet the needs of all learners.|Prereq: jr st; admis to teacher cert prog.

537 Math and Science Methods for All Learners. 1 cr. U/G. Lesson and unit planning that incorporates curriculum and instructional strategies designed to include students with identified disabilities, in collaboration with special educators.|Prereq: jr st; admis to teacher cert prog.

538 Teaching Math and Science to All Learners. 1 cr. U/G. Practicum working with students with disabilities in general education settings focused on the planning and delivery of lessons in inclusive classrooms, in collaboration with special educators.|Prereq: jr st; admis to teacher cert prog.

547 Comparative Special Education. 3 cr. U/G. Special education legislation, instruction, and policies in a variety of social and cultural contexts.|Prereq: jr st., completion of OWC-Part A

548 Introduction to Disability Studies. 3 cr. U/G. Focuses on understanding disability from a variety of perspectives: historical, political, social, cultural, literary, personal, and artistic. Disability is viewed in a manner closer to ethnic, gender, and sexuality studies.|Prereq: jr st, OWC Part A; or grad st.

558 Communication in the Classroom I: Deaf/Hard of Hearing. 3 cr. U/G. Developing proficiency and instructional skills in using manual communication for individuals who are deaf or hard of hearing in the educational context.|Prereq: must pass competency test in basic aspects of manual communication prior to registration; jr st; admis to Post-Bac Cert prog or cons instr.

559 Communication in the Classroom II: Deaf/Hard of Hearing. 3 cr. U/G. Linguistic analysis and curriculum planning for facilitating the development of communication in students who are deaf or hard of hearing.|Prereq: ExcEduc 680(P) & 681(P). Admis to Post-Bac Cert prog or cons instr.

560 Foundations of Autism Spectrum Disorders. 3 cr. U/G. Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives.|Prereq: jr st or cons instr; grade of C or better in English 102(P) or score at level 4 on EPT.

561 Methods for Working with Individuals with Autism Spectrum Disorders. 3 cr. U/G. Strategies for special education teachers and others for effectively working with individuals with autism spectrum disorders. Overview of instructional issues, inclusion, and curriculum development.|Prereq: jr st, C or better in ExcEduc 560(P) or cons instr.

562 Hearing Science. 3 cr. U/G. Overview of physical and psycho-physical concepts of hearing science, speech mechanism, audiological evaluation and implications for the educational context.|Prereq: admis to Post-Bac Cert prog or cons instr.

563 Speechreading/Auditory Rehabilitation. 3 cr. U/G. Techniques for teaching speech, speechreading, listening, and auditory training for children who are deaf or hard of hearing.|Prereq: admis to Post-Bac Cert prog or cons instr; ExcEduc 562(P); jr st.

564 Communication Methods Practicum. 3 cr. U/G. Field experience with individuals with hearing impairments in schools. Emphasis on spoken and sign language development. Includes scheduled class and demonstrations.|Prereq: jr st; admis to School of Educ or grad st; ExcEduc 541, 562 & 563, or cons instr.

565 Techniques of Teaching School Subjects to Individuals w/Hearing Impairments II. 3 cr. U/G. Methods of teaching social studies, science, and mathematics as related to the language needs of students with hearing impairments and academic deficiencies.|Prereq: jr st & admis to School of Educ, or grad st; ExcEduc 560 & 561 or cons instr.

568 Curriculum and Methods for Special Education: Birth to Three. 3 cr. U/G. Designed for teachers serving infants and toddlers with disabilities and their families.|Prereq: jr st; admis to ExcEduc prog; ExcEduc 647(C).

569 Curriculum and Methods for Special Education: Preschool. 3 cr. U/G. Designed for teachers serving preschool children with disabilities and their families.|Prereq: jr st; admis to ExcEduc prog; ExcEduc 648(C).

570 Curriculum and Methods for Special Education: Primary. 3 cr. U/G. Designed for teachers serving primary children with disabilities and their families.|Prereq: jr st; admis to ExcEduc prog; ExcEduc 649(C).

571 Curriculum Accommodations I: Primary/Middle. 1-3 cr. U/G. Determine individualized goals within a broad curriculum framework and develop strategies for making accommodations in teaching methods, materials and class set-up.|May be retaken to 6 cr max. Prereq: admis to Post-Bac Cert prog or cons instr; jr st; ExcEduc 587(C).

574 Curriculum Accommodations II: Primary/Middle. 3 cr. U/G. In-depth experience in IEP planning and scheduling to accommodate students with highly individualized needs within the academic curriculum.|Prereq: ExcEduc 571(P), 588(C). Admis to post-bac cert prog or cons instr.

576 Curriculum Accommodations III: Functional for Middle to High Students. 3 cr. U/G. Planning and scheduling for students with highly individualized goals, including school-to-work, while striving to integrate these goals into a well-coordinated program.|Prereq: admis to Post-Bac cert prog or cons instr.

579 Current Topics in Exceptional Education: (Subtitled). 1-3 cr. U/G. Specific topic announced in Schedule of Classes each time course is offered.|May be retaken w/chg in topic to max of 9 cr. Prereq: jr st.

580 An Overview of Child/Youth Care. 3 cr. U/G. Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.|Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other. Prereq: jr st or cons instr.

585 Supervised Practicum in Child and Youth Care. 2-4 cr. U/G. Supervised practicum in residential agencies and settings which utilize child and youth care workers and serve behaviorally, cognitively and/or physically disabled youth.|Ed Pol/ExcEduc 585 are jointly offered & count as repeats of each other. Prereq: jr st; Ed Pol/ExcEduc/Soc Wrk 580(P), or grad st; cons instr.

586 Teaching Experience I. 1-12 cr. U/G. Placement with a regular education teacher. Focus on understanding regular curriculum framework and experience teaching small groups.|Cr/no cr only; may be retaken to 15 cr max. Prereq: jr st; admis to Post-Bac Cert prog.

587 Teaching Experience II. 1-12 cr. U/G. Placement with exceptional education teacher. Focus on small group instruction, understanding teaching responsibilities and collaboration. On-the-job option available through application.|May be retaken to 15 cr max. Prereq: jr st; admis to cert prog in ExcEduc; or cons instr.

588 Teaching Experience III. 1-12 cr. U/G. Placement with exceptional education teacher. Full teaching responsibility is assumed. On-the-job option available through special application.|May be retaken to 15 cr max. Prereq: jr st; admis to cert prog in ExcEduc; or cons instr.

589 Workshop in Exceptional Education: (Subtitled). 1-6 cr. U/G. Variable content format examines assessment and/or methodological strategies appropriate for educators working with broad range of handicapped children and adolescents.|May be retaken w/chg in topic to max of 6 cr. Prereq: jr st; cons instr or workshop dir.

595 Technology Applications for Diverse Learners. 3 cr. U/G. Explores the use of technology to enhance the academic performance of diverse students in inclusive classrooms.|Prereq: jr st.

600 Survey of Exceptional Education. 3 cr. U/G. History, theories, research, and practices related to individuals with learning, sensory, behavioral or physical handicapping conditions.|Prereq: sr st & admis to School of Educ; or grad st.

601 Behavioral Supports. 3 cr. U/G. Addresses needs of students with challenging behaviors. Emphasis on working collaboratively to conduct functional behavioral analysis.|Prereq: admis to Post Bac Cert prog or cons instr.

602 Resources and Instruction in American Sign Language. 3 cr. U/G. Course focuses on assessment and methodology components in teaching ASL as a foreign language.|Prereq: jr st.

605 Child, Learner, Disabilities. 3 cr. U/G. Perspectives on disability; learning characteristics associated with disabilities; historical, legal and philosophical foundations; child mentoring and advocacy linked with a family-based practicum.|Counts as repeat of ExcEduc 530 and 531. Prereq: admis to Post-Bac Cert prog or cons instr.

607 Working with Culturally Diverse Deaf Students. 3 cr. U/G. Discusses the educational and culturally diverse backgrounds of deaf students in the schools.|Counts as repeat of ExcEduc 579 with similar topic. Prereq: none.

608 Multicultural Learning and Teaching in Special Education. 3 cr. U/G. Covers theoretical and practical applications of multicultural issues to learning and teaching in special education.|Prereq: jr st.

612 Collaborations for Teachers with Families, Schools, and Communities. 3 cr. U/G. Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.|Counts as repeat of CurrIns 505 and ExcEduc 651. Jointly offered with and counts as repeat of CurrIns 612. Prereq: jr st; admis to SOE; or cons instr.

613 Infant and Early Childhood Assessment. 3 cr. U/G. Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.|Counts as repeat of Ed Psy 575. Jointly offered with and counts as repeat of Ed Psy 613. Prereq: jr st.

630 Survey of EC Intervention: Young Children with Special Needs, Families. 3 cr. U/G. Introduction to etiology, historic background, current service provisions, and issues and trends as related to infants, toddlers, and preschoolers with disabilities and their families.|Prereq: jr st & admis to School of Educ; or grad st.

631 Methods for Teaching Commun Skills to Students with Severe Disabilities. 3 cr. U/G. Study of assessment, instructional, and augmentative techniques for teaching and providing communication (vocal and non-vocal) to students with severe disabilities.|Prereq: sr st; ExcEduc 665(410)(P), ComsDis 240(P), or cons instr.

633 Interdisciplinary Team Field Experience in Urban Settings. 2 cr. U/G. Field experience is designed to develop student's skills as members of interdisciplinary teams in urban community settings.|Prereq: jr st; ExcEduc 634(C).

634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities. 3 cr. U/G. Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.|ExcEduc 634, Occthy 634, & ComSDis 634 are jointly offered; they count as repeats of one another. Prereq: jr st.

635 Individualized Planning & Instructional Methods. 2 or 3 cr. U/G. Methods and strategies for teaching and evaluating adolescents with disabilities. Special emphasis given to individual educational programs, lesson planning and scheduling.|Prereq: jr st; admis to Post-Bac cert prog or cons instr; ExcEduc 487(C) & 587(C) or cons instr.

636 Curriculum Accommodations. 2 or 3 cr. U/G. Methods and strategies for teaching and evaluating adolescents with learning disabilities, emotional disturbance and cognitive disabilities. Special emphasis given to developing

individual adaptations and modifications. | Prereq: jr st; admis to Post-Bac Cert prog or cons instr; ExcEduc 635(P); 488(C) & 588(C) or cons instr.

644 Enhancing Literacy Learning for Diverse Learners: 3 cr. U/G. Teaching reading and writing to diverse learners. | Jointly offered with & subtitles count as repeat of same title of CurrIns 644. CurrIns 644 & ExcEduc 644 may be retaken with change of topic to combined 9 cr max. Prereq: currently teaching with at least 2 yrs experience; cons instr.

647 Early Childhood Special Education Field Experience: 0 to 3 Yrs. 3 cr. U/G. Provides urban experiences in early intervention programs to develop teaching skills in birth to three programs. | May be retaken to 9 cr max. Prereq: jr st; admis to ExcEduc prog.

648 Early Childhood Special Education Field Experience: Preschool. 3 cr. U/G. Practicum provides urban teaching experiences in preschool programs to develop skills for working with 3-to-5 year olds with special needs and their families. | May be retaken to 9 cr max. Prereq: jr st; admis to ExcEduc prog.

649 Early Childhood Special Education Field Experience: Primary. 3 cr. U/G. Practicum provides urban teaching experiences in primary school-age programs to develop skills for working with 1st to 3rd graders with special needs and their families. | May be retaken to 9 cr max. Prereq: jr st; admis to ExcEduc prog.

651 Working With Families in Urban Communities. 3 cr. U/G. Familial and ecological factors affecting individuals with disabilities and their caregivers including in-depth experiences with a family who has a young child with special needs. | Prereq: jr st.

652 Developmental Evaluation of Young Children with Disabilities. 3 cr. U/G. The major functions of assessment used by Early Childhood Special Educators. | Prereq: jr st; ExcEduc 651(P).

655 Introduction to Education of Individuals Who are Deaf and Hard of Hearing. 3 cr. U/G. Overview of educational programs and policies for pre K-12 students who are deaf and hard of hearing. | Prereq: jr st.

662 Collaborative Strategies. 3 cr. U/G. Provides the teacher with techniques that will assist in establishing relationships with other professionals, parents, and community agencies. | Prereq: jr st; ExcEduc 300(P), 600(P), or 605(P); admis to Post-Bac Cert prog or cons instr.

665 Language and Literacy for the Exceptional Student. 3 cr. U/G. An overview of the theoretical underpinnings for language and literacy practices, assessments, and methods of facilitating growth in students with exceptional education needs. | Prereq: ExcEduc 300 or equiv; ComsDis 240; jr st & admis to School of Educ or grad st.

671 Behavior Support & Intervention for Mid/High Students with Disabilities. 3 cr. U/G. Techniques in arranging academic and social environments for adolescents having learning and social problems. | Prereq: admis to Middle/High prog; cons instr.

676 Learning Strategies II: Cognitiv/Metacognitiv Intervntns-Mild Hndicppd Stdnts. 3 cr. U/G. Indepth analysis of strategy instruction for use with adolescents with mild handicaps. | Prereq: jr st; ExcEduc 675; cons instr; teacher certification.

679 Critical Issues in Transition Planning for Students with Disabilities. 3 cr. U/G. Understanding transition planning and tools to effectively assist students with disabilities in the transition process. | Counts as repeat of ExcEduc 589 with similar topic. Prereq: jr st.

680 Literacy I. 3 cr. U/G. Observing and assessing reading and writing; implementing basic strategies toward supporting reading and writing development; becoming a motivated reader/writer. | Prereq: admis to the Post-Bac Cert prog or cons instr.

681 Literacy II. 3 cr. U/G. Organizing and implementing literacy instruction. Addressing the individual strengths and needs in communication of students with disabilities.|Prereq: ExcEduc 680(P); admis to the Post-Bac Cert prog or cons instr.

682 Language and Literacy in Early Childhood Special Education. 3 cr. U/G. Methods in language and literacy instruction for children with special needs including study of first and second language development in children birth through age eight.|Prereq: jr st; admis to Post-Bac cert prog, or cons instr.

684 Multisensory Structured Language Teaching. 3 cr. U/G. Advanced study of dyslexia and how to implement remedial approaches to literacy. Includes a required practicum experience.|Prereq: Post-bac status or cons instr.

685 Advanced Methods in Learning Disabilities. 3 cr. U/G. Examination of recommended instructional practices in the areas of literacy, mathematics, organization and study skills, social interactions and self-advocacy.|Counts as repeat of ExcEduc 589 with same topic. Prereq: grad st or admis to Post-Bac Cert prog or cons instr.

699 Independent Reading. 1-3 cr. U/G. |Prereq: jr st & admis to School of Educ or grad st; cons instr.

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[Peck School of the Arts](#)

FILM Film, Video, Anim & New Genres

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114 Film and Experience: The Filmmaker and the Viewer. 3 cr. U. Consideration of film as an experience--aesthetic, physical, psychological, social, and historical--for both the filmmaker and the viewer.|Prereq: none.

116 Listening and Recording. 3 cr. U. Development of perceptual and expressive competencies using low-cost tools, fieldwork, and the web in response to historical and contemporary issues facing media artists.|Prereq: none

117 Filmmaking Technologies and Techniques. 3 cr. U. Fundamentals of still & motion picture image making, incl lighting, exposure, composition, digital transfer.|Counts as a repeat of Film 203 w/same topic. Prereq: none. When over-enrolled, preference will be given to Pre-Film or Pre-InterArts/IAT students.

118 Sound and Image. 3 cr. U. A time based media arts production course incorporating preceding core Film courses (Film 114, 116, 117), furthering skills and imagination in the integration of image and sound.|Prereq: Film 114(P), Film 116(P), 117(P); or cons instr.

150 Multicultural America. 3 cr. U. Cross-cultural study of U.S. ethnic and racial identities through materials drawn from a variety of media arts practices (e.g. film, photography, new media) with attention to African-, Asian-, Hispanic- and Native American experiences.|Cultures and Communities Prog course; req'd service learning component. Jointly offered with & counts as repeat of Art 150. Prereq: none.

201 Introduction to Experimental Media Arts. 3 cr. U. Survey of independent media art production in film, video, photography and emerging media from the artist's point of view. Lectures, screenings, and workshops exploring ideas and techniques relevant to the making of personal statements.|Prereq: none.

203 Media Workshop: (Subtitled). 3 cr. U. Lab tutorial consisting of intermedia exercises and class projects. Specific credits announced in Schedule of Classes whenever course is offered.|May be retaken w/chg in content to 9 cr max. Prereq: none.

210 Concepts of Production in the Media Arts. 3 cr. U. Introduction to the basic elements of cinema and related media in an inter-arts context through the development of critical and practical skills.|Prereq: none.

220 16mm Filmmaking II. 3 cr. U. Pre-portfolio studio in 16mm film production.|Prereq: Film 117(P); or cons instr.

221 Basic Elements of Filmmaking II. 6 cr. U. Theory and practice of 16mm non-sync sound techniques. Emphasis on project development, cinematography, editing, sound recording, audio transfers and mixing. |Prereq: grade B or above in Film 220; or cons instr.

222 Introduction to Digital Filmmaking. 3 cr. U. Pre-portfolio studio in digital filmmaking and editing techniques. |Prereq: admis to Pre-Film/Film prog & Film 116(P), 117(P); & either 114(214)(P) or 210(P); or admis to Inter-Arts/IAT prog & Film 116(P) or 117(P); Art 118(P) & Music 220(P); or cons instr.

231 Concept Development for Film Practice. 3 cr. U. A practice-driven course on developing skills for conceptualizing and writing for short-form cinema. |Prereq: none.

232 Animation I. 3 cr. U. Introduction to single-frame cinematic principles and techniques including drawing, collage, and kinetic analysis for short animated film projects. |Prereq: none.

234 Introduction to the Screenplay. 3 cr. U. Approaches to screenwriting from both artistic and professional points of view from the cultivation of an idea to the realization of a scenario. |Prereq: none.

250 Internship/Professional Practice. 3 cr. U. This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series. |May be retaken to max of 6 cr.

251 Theory/Practice Workshop: (Subtitled). 3-4 cr. U. Development of techniques for projects in the theory and practice of media arts. |May be retaken w/chg in content to 9 cr max. Prereq: none.

255 Introduction to Digital Arts. 3 cr. U. Pre-portfolio studio in digital art practices. |Prereq: admis to Pre-Film/Film prog & Film 116(P), 117(P); & either 114(214)(P) or 210(P); or admis to Inter-Arts/IAT prog & Art 118(P) & Music 220(P); or cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Production and special problems designed to provide relevant course work for a study abroad program in the media arts. |May be retaken w/chg in topic to max of 12 cr. Prereq: acceptance in Study Abroad Prog.

299 Independent Study. 1-6 cr. U. Individual program of supervised study in media arts theory & practice. |May be retaken for cr. Prereq: cons instr.

301 Conversations with Filmmakers and Critics. 3 cr. U. Lectures, screenings, and discussions by contemporary filmmakers and critics. Subjects of presentation will include the contemporary state of the art, the condition of the industry, and the relations of film to a critique of the culture. |Prereq: none.

302 Video in the Classroom. 3 cr. U. Introduction to creative and technical processes of video making. Planning and production of topical video projects with small team of K-12 students and teacher. |May be retaken to max of 6 cr. Prereq: none.

303 (202) Current Topics in Media Arts Production: 3 cr. U. Lectures, screening, discussions, and workshops in media arts production from the artist's point of view. Development of ideas/proposals for possible production in subsequent film department courses. |Prereq: Film 201(P); or cons instr.

305 Digital Cinema and the Computer. 3 cr. U. Relation of digital cinema to the cultural, philosophical, and technical implications of computing technology. |Satisfies GER-Art and Oral & Writ Commun (OWC) Part B requirements. Prereq: none.

309 Theory & Practice of Media Literacy. 3 cr. U. Explores the relationship between image, sound and text in light of an expanded sense of 'writing,' 'image-making,' and 'critique' in the digital age. |Prereq: none.

314 Topics in Conceptual Studies: (Subtitled). 3 cr. U. Consideration of issues in critical studies including ethnographic film, found-footage filmmaking, experimental documentary or surrealist film. | May be retaken w/chg in topic to 9 cr max. Prereq: Film 114(214)(P) or 210(P); or cons instr.

316 Filmmaker as Theorist/Practitioner: (Subtitled). 3 cr. U. Examines filmmakers particularly engaged in theory/practice investigations of film form including Chantal Ackerman, Jean-Luc Godard, Sergei Eisenstein, Laura Mulvey & Trinh T. Minh-ha. | May be retaken w/chg in topic to 9 cr max. Prereq: Film 114(214)(P) or 210(P); or cons instr.

318 Film and the Visual and Performing Arts: (Subtitled). 3 cr. U. Consideration of film's relationship to a specific art form, its formal similarities and historical intersections including film & painting, film & dance, film & music. | May be retaken w/chg in topic to 9 cr max. Prereq: Film 114(214)(P) or 210(P); or cons instr.

319 Film Genres: (Subtitled). 3 cr. U. Formal investigation of what comprises a film genre across both national & international contexts. Critical writing & production assignments will foreground conventions & their transformations in film history. | May be retaken w/chg in topic to 9 cr max. Prereq: Film 114(214)(P) or 210(P); or cons instr.

320 Structures of Film. 3 cr. U. Advanced examination of structural dimensions in film, including space, time, causality, image, and sound. Practical techniques explore structural possibilities for creative expression in film. | Prereq: Film 114(214)(P) & 210(P); or cons instr.

341 Theory/Practice Seminar: (Subtitled). 3-4 cr. U. Theoretical/practical approaches to film and video production. | May be retaken w/chg in topic to max of 9 cr. Prereq: admis to upper-level film classes per portfolio review, or cons instr.

380 Media Arts Module: (Subtitled). 3 cr. U. Post-portfolio course introducing specialized production skills in film, video, audio or new genres. | May be retaken w/chg in topic to max of 12 cr. Prereq: admis to upper level course per portfolio review or cons instr. In case of over-enrollment, admission based on gpa in major.

399 Advanced Independent Study. 1-6 cr. U. Individual program of supervised study for the advanced student of film and/or video. | May be retaken for cr. Prereq: admis to upper-level film classes per portfolio review & cons instr.

410 Junior Project. 6 cr. U. Individual production projects in film or video facilitated by critiques and technical demonstrations tailored to student needs. | Prereq: admis to upper level course per portfolio review or cons instr. In case of over-enrollment, admission based on grade point average in major.

420 Intermediate Media Arts Module: (Subtitled). 3 cr. U/G. Intermediate level course in specialized production skills in film, video, audio or new genres. | May be retaken w/chg in topic to max of 12 cr. Prereq: admis to upper level course per portfolio review; jr st or cons instr. In case of over-enrollment, admission based on gpa in major.

434 Film Aesthetics: (Subtitled). 3 cr. U. Consideration of a particular aesthetic aspect of film including performance, sound, decor, frame/sequence, color, narrative & narration, temporality. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st., Film 210(P); or const instr.

450 Advanced Internship/Professional Practice. 1-6 cr. U/G. This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series. | May be retaken to max of 9 cr. Prereq: admis to upper-level Film classes per portfolio review, cons instr.

455 Integrated Film/Video Exploration. 6 cr. U/G. A study of the relationship between film/video production and film/video analysis, team taught by an artist and a critic. | Jointly offered with ArtHist/English/JMC 310. Prereq: jr st. Film majors: portfolio review and/or cons instr; non-film majors: cons instr.

460 Advanced Media Arts Module: (Subtitled). 3 cr. U/G. Advanced-level course in specialized production skills in

film, video, audio or new genres. | May be retaken w/chg in topic to 9 cr max. Prereq: admis to upper level course per portfolio review; jr st or cons instr. In case of over-enrollment, admission based on gpa in major.

470 Advanced Media Arts Workshop: (Subtitled). 1-6 cr. U/G. Individual student projects exploring portable and studio media arts production techniques. Students will submit production proposals for faculty approval. | May be retaken w/chg in topic to 6 cr max. Prereq: Film 389(P); or grad st; or cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U. Production and special problems designed to provide relevant course work for a study abroad program in the media arts. | May be retaken w/chg in topic to max of 12 cr. Prereq: admis to upper-level Film classes per portfolio review, or cons instr.

509 Senior Project I. 3 cr. U. Pre-production/production of individual media arts projects facilitated by critiques and work sessions. | Prereq: min 12 cr of upper-level film/video/animation/new genres electives, including 3 cr. of Portfolio Production electives; or cons instr.

510 Senior Project II. 6 cr. U. Continuation of capstone project started in Film 509. Emphasis on production and post-production, facilitated by critiques, work sessions and preparations for a public presentation. | Prereq: Successful completion of Film 509(P); or cons instr.

512 Senior Project in Conceptual Studies. 6 cr. U. Capstone seminar investigates and interrogates relationship between filmmaking, theory and history. Archival research and critical analysis will produce final multimedia project. | Prereq: Film 320(P), 455(P).

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FILMSTD Film Studies

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111 Entertainment Arts: Film, Television, and the Internet. 3 cr. U. History of film, television, and the internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form. | ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

205 History of Film I: Development of an Art. 3 cr. U. The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists. | ArtHist 205 & FilmStd 205 are jointly offered; they count as repeats of one another. Prereq: none.

206 History of Film II: Development of an Art. 3 cr. U. The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists. | ArtHist 206 & FilmStd 206 are jointly offered; they count as repeats of one another. Prereq: none.

212 Intermediate Topics in Film Studies: (Subtitled). 3 cr. U. Stylistic, generic, historical, or theoretical issues in film studies. | Retakable w/chg in topic to 9 cr max. Prereq: soph st or English 290(P).

286 Writing about Film and Television. 3 cr. U. Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives. | English 286 & FilmStd 286 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

290 Introduction to Film Studies. 3 cr. U. Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking. | English 290 & FilmStd 290 are jointly offered; they count as repeats of one another. Prereq: none.

291 Introduction to Television Studies. 3 cr. U. The forms, images, and narratives particular to television. | English 291 & FilmStd 291 are jointly offered; they count as repeats of one another. Prereq: none.

292 Classic Dramas in Film: (Subtitled). 1 cr. U. A sampling of great plays in film versions, with performances by acclaimed actors. | Offered on a cr/no cr basis. Retakable w/chg in topic to 3 cr max. English 292 & FilmStd 292 are

jointly offered; w/same topic, they count as repeats of one another. Prereq: none.

293 Literature and Media: (Subtitled). 3 cr. U. A study of novels, essays, magazines, newspapers, advertisements, and films in order to disclose similarities and differences in their use of rhetorical strategies. |Retakable w/chg in topic to 9 cr max. English 293 & FilmStd 293 are jointly offered; w/same topic, they count as repeats of one another. Prereq: soph st.

294 Game Culture. 3 cr. U. Critical study of games, digital and otherwise; forms, conventions, and practices that inform design and reception of games; place of games in contemporary culture. |Counts as repeat of English 380 w/same topic. English 294 & FilmStd 294 are jointly offered; they count as repeats of one another. Prereq: GER OWC-A.

295 Women and Film. 3 cr. U. A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture. |English 295 & FilmStd 295 are jointly offered; they count as repeats of one another. Prereq: soph st.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework. |Retakable w/change in topic. Prereq: acceptance for Study Abroad Program.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: none, except as required for specific topic.

305 Film Analysis I: Method and Theory. 3 cr. U/G. Film language, critical methods, and theory applied to selected works of film art. Cross-cultural analysis of styles and themes. Study of major film artists. |ArtHist 305 & FilmStd 305 are jointly offered; they count as repeats of one another. Prereq: jr st.

306 Film Analysis II: Method and Theory. 3 cr. U/G. Film language, critical methods, and theory applied to selected works of major national film artists. Cross-cultural analysis of styles and themes. |ArtHist 306 & FilmStd 306 are jointly offered; they count as repeats of one another. Prereq: jr st.

307 Film Directors: (Subtitled). 3 cr. U/G. Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work. |Retakable w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another. Prereq: jr st; ArtHist 205(R) or 305(R).

308 Film Styles: (Subtitled). 3 cr. U/G. A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios. |Retakable w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another. Prereq: jr st.

312 Topics in Film Studies: (Subtitled). 3 cr. U. Study of stylistic, generic, historical, or theoretical issues in film studies. |Retakable w/chg in topic to 9 cr max. English 312 & FilmStd 312 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P).

316 World Cinema: (Subtitled). 3 cr. U. National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms. |Retakable w/chg in topic to 9 cr max. CompLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr. st or English 290(P); satisfaction of OWC-A.

320 Studies in Film Authorship: (Subtitled). 3 cr. U. The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star. |Retakable w/chg in topic to 9 cr max. English 320 & FilmStd 320 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st or English 290(P); satisfaction of GER English Composition competency req.

329 Film and Literature. 3 cr. U/G. Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode. |English 329 & FilmStd 329 are jointly offered; they count as repeats of one another. Prereq: jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.

330 Film and Drama: (Subtitled). 3 cr. U. Capabilities and limitations of narrative film and drama, emphasizing the distinctiveness of each artistic mode. |Retakable w/chg in topic to 9 cr max. English 330 & FilmStd 330 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st or English 290(P); satisfaction of GER English Composition competency req.

350 Global Jewish Film and Television: (Subtitled). 3 cr. U. Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism. |FilmStd 350 & Jewish 350 are jointly offered; with the same subtitle, they count as repeats of one another. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

380 Media and Society: (Subtitled). 3 cr. U/G. An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary. |Retakable w/chg in topic to 9 cr max. English 380 & FilmStd 380 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; English 290(P) or 291(P) or 6 cr in courses approved for hum breadth cr.

383 Cinema and Genre: (Subtitled). 3 cr. U/G. Stylistic and thematic analyses of literary and film genres (e.g., melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre. |Retakable w/chg in topic to 9 cr max. English 383 & FilmStd 383 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P) or 6 cr in courses approved for hum breadth cr.

390 Classical Film Criticism and Theory. 3 cr. U/G. Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing. |English 390 & FilmStd 390 are jointly offered; they count as repeats of one another. Prereq: jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.

391 Television Criticism and Theory. 3 cr. U/G. Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts. |English 391 & FilmStd 391 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.

392 Contemporary Film Criticism and Theory: (Subtitled). 3 cr. U/G. Current issues in film criticism and theory and an exploration of critical perspectives (psychoanalysis, feminism, structuralism, post-structuralism) informing recent debates in film studies. |Retakable w/chg in topic to 9 cr max. English 392 & FilmStd 392 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.

393 Entertainment Industries: (Subtitled). 3 cr. U. In-depth look at contemporary media industries both in the U.S. and globally. Emphasis on changing content, production and viewing practices. |English 393 & FilmStd 393 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/change in topic to 9 cr max. Prereq: jr st; satisfaction of OWC-A; English 290(P), English 291(P), or cons instr.

394 Theories of Mass Culture: (Subtitled). 3 cr. U/G. A survey of theories of mass culture relative to film from the late 19th century to the present. |Retakable w/chg in topic to 9 cr max. English 394 & FilmStd 394 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.

395 Feminist Film Criticism and Theory: (Subtitled). 3 cr. U/G. Theories of representation and spectatorship that focus on the position of women in film, television, and/or video. |Retakable w/chg in topic to 9 cr max. English 395 & FilmStd 395 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER

English Composition competency req; English 295(P) or cons instr.

412 Global Cinemas - Cinematic Practices in the Context of Globalization: (Subtitled). 3 cr. U/G. Cinema within global transformations that reshape the way we think about film and its history; cinema's changing impact beyond national borders.|Retakable w/chg in topic to 9 cr max. Prereq: jr st or English 290(P); satisfaction of GER English Composition competency req.

489 Internship in Film Studies, Upper Division. 1-6 cr. U. Application of advanced principles of film studies in a business, organizational, educational, political, or other appropriate setting.|One cr earned for 40 hrs work. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in FilmStd; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specific enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

669 Screening Sexuality: (Subtitled). 3 cr. U/G. Relationship between discourses of sexuality and media artifacts/texts. Historical/theoretical approaches to apprehend construction and representation of sexuality/sexual identities in media.|Retakable w/chg in topic to 9 cr max. Repeat of English 312 w/same topic. Prereq: jr st.

690 (590) Seminar in Contemporary Cinema and Media: (Subtitled). 3 cr. U. Contemporary theories and criticism of cinema, TV and the Internet since 1960. Approaches considered include semiotics, structuralism, Marxism, feminism, psychoanalysis, cultural studies, queer theory.|Retakable w/chg in topic to 6 cr max. Prereq: sr st; English 390(P) or English 391(P).

699 Independent Work. 1-3 cr. U. Advanced independent work under the supervision of a Film Studies faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Film Studies dir or asst dir.|Retakable w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

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FINEART Fine Arts-Interdepartmental

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299 Independent Study. 1-6 cr. U. Individual program of supervised study in field of fine arts.|May be retaken for cr. Prereq: cons instr.

313 Programming for Artists I. 3 cr. U/G. An introduction to principles and applications of computer programming languages within art practice.|FineArt 313 & Art 313 are jointly offered; they count as repeats of one another. Prereq: jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.

315 Scripted Interactivity I. 3 cr. U/G. An introduction to the production and evaluation of screen based interactivity. Techniques can include Flash Action Scripting, Lingo, Javascript, DHTML, etc.|Prereq: jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.

316 Interactive and Multimedia Art. 3 cr. U/G. An introduction to interactive art objects and installations using computer vision, signal processing, and/or MIDI and USB technologies.|Art 316 & FineArt 316(211) are jointly offered; they count as repeats of one another. Prereq: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.

319 Hybrid Sculptural Forms: (Subtitled). 3 cr. U. Introduction to concrete computing for artists, including robotics, interactive systems; basic programming, and soldering/assembly. Emphasis on production of object oriented art.|May be retaken w/chg in topic to 6 cr max. Art 319 & FineArt 319 are jointly offered & count as repeats of each other. Prereq: Admis to Art and Design prog or Inter-Arts/IAT prog, & Art 118(P); or cons instr.

327 Digital Media Workshop: (Subtitled). 3 cr. U. A concept oriented workshop in digital media.|Art 327 & FineArt 327(351) are jointly offered & count as repeats of each other. May be retaken w/chg in topic change to 6 cr max. Prereq: soph st, admis to Visual Art prog or Inter-Arts/IAT prog; or cons instr. See semester course schedule for additional prereq.

353 Digital Media Seminar: 3 cr. U. Topics and critical issues centering on science and technology within the field of contemporary art. Student research and written/oral reports required.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st, & admis to Inter-Arts/IAT prog or to Visual Art prog; or cons instr.

399 Independent Study. 1-6 cr. U. Individual program of supervised study in field of fine arts.|May be retaken for cr. Prereq: cons instr.

407 DIVAS Forum. 1-3 cr. U. Explore contemporary issues in art & technology, engage in peer critique, view and evaluate exhibitions, performances and presentations. | May be retaken to max 6 cr. Prereq: current Pre-DIVAS or DIVAS st; or cons instr.

410 IAT Junior Project. 6 cr. U. Individual production projects in IAT facilitated by critiques and technical demonstrations tailored to student needs. | Prereq: jr st; successful completion of IAT portfolio review; or cons instr.

411 Time Space II. 3 cr. U/G. Advanced temporal and spatial structures as applied to art practice. | Prereq: jr st, Fine Art 211(P); or grad st; or cons instr.

450 Electronic Portfolio and Assessment in Arts Education. 1 cr. U. Presentation software, interactive multimedia, and Internet for creation of electronic portfolios for assessing proficiency in arts education. Exploration of assessment tools available to arts educators. | Prereq: admis to teacher cert. prog.

489 Fine Arts Workshop I: (Subtitled). 1-6 cr. U/G. Project-oriented course of variable content and duration, focusing around special aspects of art, dance, film, music and theatre. An interdisciplinary approach will be used. | May be retaken w/chg in topic to max of 9 cr. Prereq: jr st; cons instr.

510 IAT Senior Project. 6 cr. U. Individual projects in IAT facilitated by critiques, work sessions, technical demonstrations tailored to student needs and preparation for public presentation or exhibition. | Prereq: Fine Art 410 & Sr st; successful completion of IAT portfolio review; or cons instr.

511 Spatial Interactivity II. 3 cr. U/G. Advanced course focusing on interactive spatial installation and sculptural works. Work with sensors, video, audio and kinetic elements to create interactive systems. | Prereq: jr st, admis to IAT prog or to Visual Art prog, & Fine Art 311(P); or grad st; or cons instr.

513 Programming for Artists II. 3 cr. U/G. Advanced principles and applications of computer programming languages within art practice. | Prereq: Jr st, Fine Art 313(P); or grad st; or cons instr.

515 Scripted Interactivity II. 3 cr. U/G. Advanced course focusing on the production and evaluation of screen based interactivity. Techniques can include Flash Action Scripting, Lingo, Javascript, DHTML, etc. | Prereq: jr st, admis to IAT prog or to Visual Art prog, & Fine Art 315(P); or grad st; or cons instr.

551 Advanced Digital Media Workshop: 3 cr. U/G. A short-term, concept oriented workshop in digital media. | May be retaken with change in topic to 6 cr max. Prereq: jr st, Fine Art 351(P); or grad st; or cons instr.

553 Advanced Digital Media Seminar: 3 cr. U/G. Topics and critical issues centering on science and technology within the field of contemporary art. Student research and written/oral reports required. | May be retaken w/chg in topic to 6 cr max. Prereq: jr st, & admis to IAT prog or to Visual Art prog; or grad st; or cons instr.

589 Fine Arts Workshop II: (Subtitled). 1-6 cr. U/G. Advanced project-oriented course, of variable content and duration, focusing around special aspects of art, dance, film, music and theatre. An interdisciplinary approach will be used. | May be retaken w/chg in topic to max of 9 cr. Prereq: jr st; writ cons instr.

599 Arts Internship. 1-6 cr. U/G. Internships in the arts at museums and galleries; dance, theatre, and production companies; design and advertising firms; government agencies; non-profit organizations; professional artist studios. | May be retaken to max of 9 cr. Prereq: jr st; cons instr.

689 Senior Capstone-Musical Theatre. 3 cr. U. A faculty-supervised staged performance conceived and directed by the enrollee which is a result of their training in the BFA InterArts Musical Theatre degree program. | Prereq: jr st, cons instr & hearing before area faculty.

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FLL Foreign Languages/Literature

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101 How to Learn a Language. 1 cr. U. This course provides language students with learning tools that are helpful for articulatory phonetics, morphology, grammatical inflections, word derivations, and explanations of unfamiliar grammatical constructions. |Prereq: none.

102 Uncommonly Taught Language: Intensive First Semester: (Subtitled). 5-7 cr. U. Intensive training in an uncommonly taught language, for students with no previous knowledge of the language. |May be retaken w/chg of language. FLL 102 & Linguis 102 are jointly offered; w/same topic, they count as repeats of one another. Prereq: none.

103 First Semester of an Uncommonly-Taught Language: (Subtitled). 1-4 cr. U. Elementary training in an uncommonly-taught language (i.e. one not otherwise offered in any UWM program). Number of credits earned by the student is determined by the credit value assigned to section number. |For students with no previous knowledge of the language. May be retaken w/chg in language. FLL 103 & Linguis 103 are jointly offered; with same topic, they count as repeats of one another. Prereq: none.

104 Second Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 103 (Linguis 131). Number of credits earned by student is determined by the credit value assigned to section number. |May be retaken w/chg in language. FLL 104 & Linguis 104 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 103(Linguis 131)(P) in same language.

105 Intensive Elementary Language I: 4 cr. U. Methodical study of the elements of a designated language; phonology, morphology, syntax, vocabulary. First five-week module in semester-long intensive program. |May be retaken w/chg in topic. Prereq: conc reg FLL 216.

106 Intensive Elementary Language II: 4 cr. U. Continuation of FLL 105. A five-week intensive course offered as the second of three modules in a semester-long intensive program. |May be retaken w/chg in topic. Prereq: FLL 105(C) or equiv; conc reg in FLL 216.

109 First-Semester Lao Literacy. 3 cr. U. Introduction to literacy skills in Lao. Intended for speakers of Lao. |Prereq: none.

110 Second-Semester Lao Literacy. 3 cr. U. Continuation of FLL 109 (Linguis 163). |Prereq: FLL 109 (Linguis 163) (P).

192 First Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in the Schedule of Classes each time course is offered. |Open only to freshman. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. |May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

202 Uncommonly Taught Language: Intensive Second Semester: (Subtitled). 5-7 cr. U. Continuation of FLL/Linguis 102(Linguis 133). |May be retaken w/chg in language. FLL 202 & Linguis 202 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 102(Linguis 133)(P) in same language.

203 Third Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 104(Linguis 132). Number of credits earned by student is determined by credit value assigned to section number. |May be retaken w/chg in language. FLL 203 & Linguis 203 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 104(Linguis 132)(P) in the same language.

204 Fourth Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 203(Linguis 231). Number of credits earned by student is determined by the credit value assigned to section number. |May be retaken w/chg in language. FLL 204 & Linguis 204 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 203(Linguis 231)(P) in same language.

205 Intensive Intermediate Language I: 3 cr. U. Completion of methodical study of elements of the designated language; emphasis on intensive review of/practice with vocabulary, morphology, syntax. Third five-week module in semester-long intensive program. |May be retaken w/chg in topic. Prereq: FLL 106(C) or equiv; conc reg in FLL 216.

216 Survey of Civilization: (Subtitled). 3 cr. U. Survey of the civilization of the designated language from geographical, historical, and cultural perspectives; emphasis on reading in the language simple and intermediate texts that illustrate aspects of the civilization. |May be retaken w/chg in topic. Prereq: conc reg in FLL 105, 106, & 205.

240 Vampires: From Slavic Village to Hollywood. 3 cr. U. Historical survey of western vampire lore from discovery in eastern Europe in the 1700's through British literary vampire literature to Hollywood Dracula films. |Not open to students who have taken FLL 192, Vampires topic. Prereq: none.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created especially for offering in a specified enrollment period. Requires only dept and Assoc Dean approval. In exceptional circumstances can be offered in one add'l semester. |May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

303 Fifth Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 204(Linguis 232). Number of credits earned by student is determined by the credit value assigned to section number. |May be retaken w/chg in language. FLL 303 & Linguis 303 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 204(Linguis 232)(P) in same language.

304 Sixth Semester of an Uncommonly Taught Language: (Subtitled). 3 cr. U. Continuation of FLL/Linguis 303(Linguis 331). Number of credits earned by student is determined by the credit value assigned to section number. |May be retaken w/chg in language. FLL 304 & Linguis 304 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 303(Linguis 331)(P) in same language.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

699 Advanced Independent Study. 1-3 cr. U. Advanced-level independent work under the supervision of a Foreign

Languages and Literature faculty or academic staff member. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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FRENCH French

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103 First-Semester French. 4 cr. U. For students who have not studied French previously. Oral practice, grammar, and reading. Language laboratory required.|Counts as repeat of French 113. Open only to students with 2 yrs HS French or less or score of 1 on the French placement exam. Prereq: none.

104 Second-Semester French. 4 cr. U. Continuation of French 103. Further drill in the language laboratory.|Counts as repeat of French 114. Prereq: grade of C or better in French 103(P) or level 2 score on French placement exam or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

110 French for Travelers. 1 or 2 cr. U. Basic conversational French for travelers. For students with no knowledge of French as well as for those with a basic foundation in the language. Useful vocabulary and cultural information.|Prereq: none.

113 Intensive French I. 4 cr. U. Compressed introductory course focused on speaking, oral comprehension, and reading. For students with some knowledge of French or another foreign language.|Counts as a repeat of French 103. Prereq: none.

114 Intensive French II. 4 cr. U. Continuation of French 113. Prepares students for placement into French 203.|Counts as a repeat of French 104. Prereq: French 103(P), 113(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).

145 Views of France: (Subtitled). 3 cr. U. In-depth study of selected aspects of French civilization as reflected in literature.|May be retaken w/chg in topic to 9 cr max. Prereq: none.

190 Elementary French Electives. 3-12 cr. U. Awarded by the program director for language work at the introductory (first-year) level completed in Paris.|May not be retaken for cr. Prereq: acceptance in Study Abroad Prog.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken w/chg

in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-4 cr. U. For further information consult department chair. |May not be retaken for cr. Prereq: 2.5 GPA; cons instr, dept chair & asst dean for SAS.

203 Third-Semester French. 3 cr. U. Review and further study of language and culture with emphasis on the development of reading skills. |Prereq: grade of C or better in French 104(P) or 114(P) or level 3 score on French placement exam or cons instr. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

204 Fourth-Semester French. 3 cr. U. Continuation of French 203. Review of main grammatical concepts. Readings in modern French and Francophone literature. |Prereq: grade of C or better in French 203(P) or level 4 score on French placement exam or cons instr; French 213(R). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

205 Reading for Research. 3 cr. U. Basic grammatical principles and linguistic structures, augmented by individually-supervised readings in the student's field of specialization. |Prereq: none.

210 French Immersion: Intermediate. 1-2 cr. U. Concentrated, structured practice of spoken French; contemporary topics; small-group setting with native speakers, simulates immersion experience. Build vocabulary, improve communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered. |May be retaken to 4 cr max. Prereq: French 203(P) or cons instr.

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. |Jointly offered with, and may be used to repeat, Classic 213, English 213, German 213, Italian 213, Linguis 213, Polish 213, Russian 213, & Spanish 213. Prereq: none.

277 French Discussion Section: (Subtitled). 1 or 2 cr. U. Discussion in French, designed to broaden perspectives, improve language skills. |Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). Retakable w/chg in topic to 6 cr max. Prereq: French 204(P) or cons instr.

289 Internship in French. 1-6 cr. U. Application of basic principles of French in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: French 103(P) or 113(P); 2.25 gpa; cons instr.

290 Intermediate French Electives: (Subtitled). 3-12 cr. U. Awarded by the program director for language work on the intermediate level completed at Paris. |Students initially enroll in French 595. May be retaken for cr. Prereq: acceptance for Study Abroad Prog; conc reg in French 595(C).

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. |May be retaken to 9 cr max. Prereq: acceptance into UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog; conc reg in French 595(C).

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

303 Conversation and Composition: Intermediate Level. 3 cr. U. Development of ability to understand, read, speak and write French, with emphasis on everyday language and culture. |Prereq: grade C or better in French 204(P) or level 5 score on French placement exam or cons instr; may be taken conc w/French 204 w/grade B or better in French 203(P).

Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

310 Contemporary French Usage. 1 or 2 cr. U. Review of French grammar, practice in conversation and composition with emphasis on current practice. Reading materials will stress contemporary French life and politics. |Prereq: French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

311 French for International Business/Professional Communication: Oral Emphasis. 3 cr. U. Introduction to business language and practices in French-speaking countries. Commercial vocabulary, oral and written communication skills, use of French internet resources. |Prereq: French 303(215)(P) or cons instr.

324 Contemporary French Language and Culture. 3 cr. U. Introduction to contemporary French culture through the use of authentic materials (video, oral interviews, literary and journalistic writing). |Prereq: French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

325 Intensive Grammar and Usage. 3 cr. U. Grammatical structures; levels of styles; written accuracy and proficiency. |Prereq: French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

332 Reading French Texts. 3 cr. U. Rules and concepts involved in reading and understanding poetry and prose. Practice in developing skills by literary analysis. |Prereq: French 303(P) or cons instr; French 324(R) & 325(R).

349 Studies in French Culture: (Subtitled). 2-4 cr. U. A specific aspect of French culture combining class lectures and on-site visits. |May not enroll conc in French 449. May be retaken w/chg in topic to 9 cr max. Prereq: French 303(215)(P) or cons instr; acceptance for Study Abroad Prog; conc reg in French 595(C).

357 Literature of the French-Speaking World in Translation: (Subtitled). 3 cr. U. Topic/genre in selected works by major writers from one or more French-speaking regions (France, Belgium, Switzerland, Quebec, the Caribbean, Africa, Southeast Asia, etc.). |May be retaken w/chg in topic to 6 cr max. Prereq: jr st or cons instr.

361 French for International Business/Professional Communication: Writing Focus. 3 cr. U. Advanced French language, intercultural knowledge for business/professional communication in French-speaking countries. Commercial vocabulary, case studies, business letters/forms, internet. Preparation for Paris Chamber of Commerce's International Business Exam. |Prereq: French 311(P) or 325(P).

383 Honors Seminar: (Subtitled). 3H cr. U. Reading and discussion of selected works. |May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

392 Phonetics. 3 cr. U. Theory of French sounds; phonetic transcription; practice in pronunciation in class and in language laboratory. |Required of teaching majors & minors. Prereq: French 303(215)(P) or cons instr.

395 Reading French for Proficiency. 3 cr. U. Development of reading proficiency in French by focusing on vocabulary acquisition, recognition of cognates, and analysis of complex sentences in short literary and journalistic texts. |Prereq: French 324(327)(P), 325(P), or 332(322)(P).

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before coursework level, content, and credits are determined and/or in specially-prepared program coursework. |May be retaken w/chg in topic. Prereq: French 203(P); acceptance for Study Abroad Prog; conc reg in French 595(C).

401 French for Reading Knowledge. 3 cr. U. For students with little or no previous knowledge of French; especially useful to graduate students fulfilling a language requirement. |Does not count toward the French major or minor. Prereq: jr st.

410 French Immersion: Advanced. 1 or 2 cr. U/G. Concentrated, structured practice of spoken French; contemporary topics; small-group setting with native speakers simulates immersion experience. Build vocabulary, improve

communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered. | May be retaken to 4 cr max. Prereq: French 324(327)(P) & 325(P), or cons instr.

415 Introduction to Translation: French to English. 3 cr. U. Introduction to basic skills necessary to professional translation. Translation of texts from French into English. Summarizing texts. Sight translation. | Prereq: jr st; grade of B or better in French 325(P); French 324(327)(P) or 332(322)(P).

426 Growing Up French. 3 cr. U/G. French civilization from the point of view of the French child, with emphasis on materials familiar to French children and adolescents. | Prereq: jr st; two French courses numbered 320 or above or cons instr.

427 Advanced Written Expression. 3 cr. U/G. Development of writing proficiency in a variety of genres through close analysis and imitation of good French writing; emphasis on usage, syntax, and authentic French expression. | Prereq: jr st & French 324(327)(P) & 325(P), or grad st.

428 Castles, Cathedrals, and Common People: The Foundations of French Culture. 3 cr. U/G. Study of major aspects of French society and its cultural expressions from the Middle Ages through the Renaissance. | Prereq: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

429 Royalty, Reason, and Revolution: The Golden Age of French Culture. 3 cr. U/G. Major aspects of French society and its cultural expressions from the Renaissance through the Revolution. | Prereq: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

430 Reaction and Innovation: French Culture of the 19th and 20th Centuries. 3 cr. U/G. French politics, society, and culture from Napoleon's First Empire to De Gaulle's Fifth Republic, 1804-1958. | Prereq: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

431 Seminar in Literature of the Francophone World: (Subtitled). 3 cr. U. Works written in French by writers of Africa, North Africa, the Caribbean, and Quebec. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; French 325(P) & 332(322)(P); or cons instr.

432 Seminar in French and Francophone Cultures: (Subtitled). 1-3 cr. U. In-depth study of selected topics in the cultures of France or French-speaking countries. | May be retaken w/chg in topic to 9 cr max. Prereq: French 324(327)(P) or 325(P), or cons instr.

433 Seminar in French Literature: (Subtitled). 3 cr. U. In-depth study of important works of French literature. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; French 325(P) & 332(322)(P).

449 Studies in French Culture: (Subtitled). 2-4 cr. U. French culture through readings and on-site visits. Completing this course does not preclude taking required 300-level courses for cr upon return to UWM. | May not enroll conc in French 349. May be retaken w/chg in topic to 9 cr max. Prereq: 300-level French course; acceptance for Study Abroad Prog; conc reg in French 595(C).

450 Institutions and Culture of Contemporary France. 3 cr. U/G. Major political, social, cultural and economic forces shaping France today. France within the European Union and the Francophone world. | Prereq: jr st; French 325(P); one add'l 300-level French course or cons instr.

451 Cinema of the French-Speaking World: (Subtitled). 3 cr. U/G. Narrative techniques and thematic content of French-language cinema. | May be retaken w/chg in topic to 9 cr max. First enrollment only counts toward French major. Prereq: jr st; two of French 324(327)(P), 325(P), 332(322)(P) or cons instr.

457 Topics in French and Francophone Studies in Translation: (Subtitled). 3 cr. U/G. Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and cultural context. | CompLit 457 & French 457 are jointly offered; they count as repeats of one another. May be retaken

w/chg in topic to 9 cr max. Prereq: jr st or cons instr.

465 Introduction to Translation: English to French. 3 cr. U/G. Translation of texts from English into French. Comparative study of French and English syntax and comparative culture. |French 465 & Trnsltn 465 are jointly offered; they count as repeats of one another. Counts as repeat of French 499 with Intro to English to French Translation topic. Prereq: jr st; grade of B or better in French 325(P); French 427(P) or cons instr.

489 Internship in French. 1-6 cr. U. Application of advanced principles of French in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; a 300-level or above course in French; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: French 203(P); acceptance for Study Abroad Prog; conc reg in French 595(C).

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

510 Seminar on Masterpieces of Literature Written in French: (Subtitled). 3 cr. U/G. Representative works of a major writer or writers. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; French 325(P) & 332(322)(P); or cons instr.

520 Seminar in Contemporary French Literature: (Subtitled). 3 cr. U/G. Trends and schools in contemporary novels, theatre, and poetry. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; French 325(P) & 332(322)(P); or cons instr.

592 Seminar in French Language: (Subtitled). 3 cr. U/G. Historic, social, geographic, phonological, and lexical evolution of French. How French fits into global and regional contexts. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; two of French 324(327)(P), 325(P), & 332(322)(P); French 392(P); or cons instr.

595 Study Abroad in France. 10-12 cr. U. Designed to enroll students before level, content and credits of work in France are determined. Translated into French 290, 390, or 490 upon completion of program. |Prereq: French 203(P); acceptance for Study Abroad Prog.

599 Tools and Techniques of Research in French. 1 cr. U. Library resources available for research in French language and literature, including online academic databases, the library catalogue, and reference books. |Prereq: jr st; conc reg in one of French 428(C), 429(C), 430(C), 431(C), 432(C), 433(C), 450(C), 510(C), or 592(C).

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. |May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Advanced Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a French faculty or instructional academic staff member. For further information, consult French prog coord. |May be retaken w/chg in topic. Prereq: jr st; two 300-level French courses, 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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LGBT Lesbian, Gay, Bisexual, Trnsgn

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192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific social science topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. |Retakable to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

200 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies. 3 cr. U. Explores ideas about sexual identity and community through theory, literature, film, photography, music, and popular culture. |Prereq: none.

275 Queer Migrations. 3 cr. U. How gender, race, and sexuality shape the migration processes; how concerns about sexuality shape U.S. immigration and citizenship policy; how mass migrations transform diverse queer communities. |No cr for students w/cr in Ethnic 250 w/similar topic. Ethnic 275 & LGBT 275 are jointly offered; they count as repeats of one another. Prereq: none.

289 Internship in LGBT Studies, Lower Division. 1-6 cr. U. Application of basic principles of LGBT studies in business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: 2.50 gpa; cons supervising faculty member.

290 Topics in LGBT Studies: (Subtitled). 3 cr. U. Selected LGBT topics and issues. Specific topics and add'l prereqs announced in Schedule of Classes each time course is offered. |Retakable w/chg in topic to 9 cr max. Prereq: none.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. |Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in

topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in LGBT Studies, Upper Division. 1-6 cr. U. Application of basic principles of LGBT studies in business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

599 Selected Topics in LGBT Studies: (Subtitled). 3 cr. U. Focus on a particular LGBT topic and/or issue. |Retakable w/chg in topic to 9 cr max. Prereq: jr st; LGBT 200(P) or cons instr.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a LGBT studies faculty or academic staff member. |Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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GEOG Geography

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105 Introduction to Human Geography. 3 cr. U. How humans interact with and alter the Earth through cultural, political, and economic processes; how these processes are dependent on and affect Earth's natural resources. 2 hrs lec, 1 hr dis.|Prereq: none.

110 The World: Peoples and Regions. 3 cr. U. Introduction to regional cultural geography through a study of representative and significant areas of the earth.|Prereq: none.

114 Geography of Race in the United States. 3 cr. U. Contemporary geographic issues of segregation, assimilation, belonging, and exclusion facing African-American, white, Asian, Latino, Native American and either groups in the U.S. 2 hrs lec, 1 hr dis.|Prereq: none.

115 (315) (effective 09/04/2018) Globalization and Economic Development. 3 cr. U. Geographic perspectives on world economy: geographic organization of contemporary production and consumption around the world; historical development of capitalist economy; economic geography of globalization processes.|Prereq: none.

120 Our Physical Environment. 3 cr. U. Characteristics and significance of world land form, climate, soils, vegetation, and mineral and water resources. 2 hrs lec, 2 hrs lab/dis.|Not open for cr to students w/cr in Geog 121(ER), 122(ER). Required all-day field trip for which fee is assessed. Prereq: none.

125 Introduction to Environmental Geography. 3 cr. U. Introduction to environmental geography and related environmental problems aimed at understanding of the earth's systems in our daily encounter with them.|Prereq: none.

128 Introduction to Caves and Caving. 3 cr. U. An introduction to the science of speleology, to the underground world of caves, and to the techniques and history of caving.|Prereq: none.

140 Our Urban Environment: Introduction to Urban Geography. 3 cr. U. Site and situation, central functions, spatial patterns of socio-economic and demographic characteristics of urban population. Spatial patterns of urban economy.|Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

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- 194 First-Year Seminar: (Subtitled). 3 cr. U.** Specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.
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- 199 Independent Study. 1-3 cr. U.** For further information, consult dept chair. |May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
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- 213 Geography of Asia. 3 cr. U.** Population, resources, development, and diversity. Regions discussed are East Asia, Southeast Asia, South Asia, and Central Asia. |Prereq: soph st.
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- 214 Wisconsin. 3 cr. U.** Regional examination of physical features, resources, people, land utilization, and economic development. |Prereq: soph st.
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- 215 Introduction to Geographic Information Science. 3 cr. U.** Geographic objects, their representation and analysis. Topics include special nature of spatial data; concepts of space, mapping, spatial relationships; and use of geographic information systems. 2 hrs lec, 2 hrs lab. |Prereq: none.
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- 216 Geography of the United States and Canada. 3 cr. U.** Physical features, resources, peoples, and utilization and economic development of the United States and Canada. |Prereq: soph st.
-
- 225 The Language of Maps. 3 cr. U.** Maps as a visual language. An introduction to their making, conventions, distortions, use, and significance in society. Historical examples. |Prereq: soph st.
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- 231 Geography of Islam. 3 cr. U.** Origin and main features of Islam and the diversity of Muslim cultures in various geographical, social, cultural, and political contexts. |Prereq: none.
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- 247 Quantitative Analysis in Geography. 3 cr. U.** Application of quantitative measures to geographic problems. Topics include descriptive statistics, statistical inference, and bivariate relationships. 2 hrs lec, 2 hrs lab. |Prereq: Math 105(P).
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- 253 Austria: The Second German State. 1 cr. U.** Lands and people of Austria; climate, soils, and mineral resources; settlements and economy; the role of Austria today. |Prereq: soph st.
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- 261 Africa: Topical Analysis. 3 cr. U.** Countries south of the Sahara. |Prereq: soph st.
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- 289 Internship in Geography, Lower Division. 1-6 cr. U.** Application of basic principles of geography in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Geog; 2.25 gpa; cons supervising faculty member.
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- 296 UROP Apprenticeship. 1-3 cr. U.** Undergraduate research participation in a project developed with a supervising member of the faculty or staff. |One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance into UROP; prior or conc reg in UROP seminar.
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- 297 Study Abroad: (Subtitled). 1-12 cr. U.** Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.
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- 299 Ad Hoc: (Subtitled). 1-6 cr. U.** Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.
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- 304 Human Impact on the Environment. 3 cr. U.** Geographical and temporal distribution of human effects on land and resources; historical background of human concern for deleterious effects of impacts on environments. |Prereq: jr st;

intro course in Geog or a life sci recom.

306 Natural Hazards. 3 cr. U. An introduction to processes and conditions responsible for natural hazards, reasons for geographic patterns of hazards' occurrence, and modes of adjustment to natural hazards.|Prereq: jr st; a physical geog course recom.

309 Nationalities and Nations of the World. 3 cr. U. Nationalities, nations and changing borders of countries. Emigration and immigration. Cultural diffusion, languages and folk and popular culture.|Prereq: jr st; 100-level course in Geog or Ethnic recom.

310 General Climatology. 3 cr. U. Global patterns of climate and the processes that shape them. Climatic elements, upper-atmospheric waves, internet data, Midwest climate, climate classification, and climate change.|Prereq: jr st; Geog 120(R), Atm Sci 100(R), or Atm Sci 240(R).

315 Globalization and Economic Development. 3 cr. U. Geographic perspectives on world economy: geographic organization of contemporary production and consumption around the world; historical development of capitalist economy; economic geography of globalization processes.|Prereq: Geog 105(P), 110(P), 114(P), or 140(P).

330 Europe: East and West. 3 cr. U. Europe's lands and peoples, physical and cultural diversities and similarities.|Prereq: jr st.

332 China: Peoples, Regions, and Development. 3 cr. U. Geographic examination and explanation of change in China, including population, resources, development processes, environment, diverse cities and regions, and integration into the global economy.|Prereq: jr st.

340 Biogeography. 3 cr. U. An introduction to the geography of the biosphere, the earth's surface, and the plants and animals which live there.|Prereq: jr st; a physical geog or a biology course recom.

350 Conservation of Natural Resources. 3 cr. U. Analysis of environmental ethics; the positive and negative consequences of resource development with emphasis on strategies designed to resolve environmental conflicts.|Prereq: jr st or a geog course.

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in geography.|May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors200(P); cons Honors College dir.

400 Population, Environment, Development. 3 cr. U/G. Population processes and policies in different geographical contexts: fertility, mortality, migration, and policies affecting these; population-environment relations; interactions of population and economic development.|Prereq: jr st; Geog 105(P), 110(P), 114(P), or 140(P).

403 (effective 09/04/2018) Remote Sensing: Environmental and Land Use Analysis. 4 cr. U. Use of aerial photographs and digital imagery in environmental and land use analysis, including urban areas. 3 hrs lec; 2 hrs lab. PC/Windows familiarity recom.|Prereq: jr st & Geog 215(P).

403 Remote Sensing: Environmental and Land Use Analysis. 4 cr. U/G. Use of aerial photographs and digital imagery in environmental and land use analysis, including urban areas. 3 hrs lec; 2 hrs lab|PC/Windows familiarity recom. Prereq: jr st & Geog 215(P); or grad st.

405 Cartography. 4 cr. U/G. Thematic cartography; map communication, design principles, illustration and mapping software. 3 hrs lec, 2 hrs lab.|Prereq: jr st & Geog 215(P); or grad st.

405 (effective 09/04/2018) Cartography. 4 cr. U. Thematic cartography; map communication, design principles, illustration and mapping software. 3 hrs lec, 2 hrs lab.|Prereq: jr st & Geog 215(P).

410 Gendered Geographies. 3 cr. U/G. Various ways feminist geographers have analyzed gender in relation to

phenomena such as the body, home, work, the nation, colonization, and globalization. |Prereq: jr st & one of Geog 105(P) or 110(P) or Wmns 200(P) or 201(P) or equiv; or grad st.

411 Physical Climatology. 3 cr. U/G. Analyzing climatic processes at the microclimate scale. Budgets of radiation, energy, water, and momentum at the earth's surface, sensible-latent heat, and soil-plant-atmosphere interactions. |Prereq: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.

415 Hydrogeography. 3 cr. U/G. Role of water in geographic systems. Interaction of water with physical and human systems, key hydrological processes, spatial and temporal variations of water, data collection, modeling. |Prereq: jr st, Geog 120(P) or 125(P), & Geog 215(P); or grad st.

420 Methods and Principles in Land Form Geography. 3 cr. U/G. Geographic qualitative and quantitative methods in land form analysis and principles of landscape evolution. |Prereq: jr st & Geog 120(P) or 121(P) or Geo Sci 100(P).

421 Geography of Latin America. 3 cr. U/G. Topical and regional analysis of physical features, discovery and exploration, processes of settlement, evolution of the landscape, and problems of development through modern times. |Prereq: jr st & Geog 110(P) or 120(P) or 125(P); or grad st.

424 Karst Geomorphology. 3 cr. U/G. Description and analysis of karst (limestone) processes and landforms. |Prereq: jr st; Geog 004(P), 120(P) or cons instr.

430 Geography of Transportation. 3 cr. U/G. Geographic analysis of transportation, with emphasis on commodity flows and traffic patterns. |Prereq: jr st; Geog 115(P).

430 (effective 09/04/2018) Geography of Transportation. 3 cr. U. Geographic analysis of transportation, with emphasis on commodity flows and traffic patterns. |Prereq: jr st; Geog 115(P).

437 Qualitative Methods in Geography. 3 cr. U. Research design, interview, focus group, ethnography, survey, and discourse analysis; epistemological debates and the methodological and ethical issues that arise throughout the research process. |Prereq: jr st; Geog 105(P), 110(P), 114(P), or 140(P).

441 Geography of Cities and Metropolitan Areas. 3 cr. U/G. Extent, localization, and geographic relations of land uses, facilities, and internal circulation, with particular reference to large North American cities. |Prereq: jr st & intro course in geog or acceptable course in an urban related field, e.g. Econ, UrbPlan, Urb Std; or grad st.

443 Cities of the World: Comparative Urban Geography. 3 cr. U/G. Geographic analysis of world urban systems with emphasis on the cultural traditions, form, function and socio-economic development of cities. |Prereq: jr st & Geog 110(P), 115(P), or 140(P).

450 Climates of the Past and Climate Change. 3 cr. U/G. Climatic history of the earth and climate models. Milankovitch theory, quaternary climates, temporal-spatial scales of change, general circulation, and earth system models. |Prereq: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.

455 Applied Climatology. 3 cr. U/G. Applications of climate processes and data. Solar energy, wind energy, food production, water usage, building design, urban environments, ecological assessment, and land form development. |Prereq: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.

462 Cultural Geography of Latin America. 3 cr. U/G. Development of cultural landscapes, with emphasis on land use and environmental change resulting from European introductions; historical explanation of modern landscapes and environmental problems. |Prereq: jr st; one of Geog 105(P), 110(P), 421(P), 422(P), Hist 180(P), 388(P), 389(P), or 390(P).

464 Environmental Problems. 3 cr. U/G. General discussion and case studies of geographical contexts and historical roots of modern environmental problems. History of human concern over adverse environmental impacts. |Prereq: jr st &

an intro course in a life science or environmental science.

470 Geography of South Asia. 3 cr. U/G. Survey of the historical, cultural and economic geography of South Asia, including India and adjacent countries. |Prereq: jr st; intro Geog, Anthro, or Econ course.

475 Geography of Soils. 3 cr. U/G. Systematic and regional study of soils, interrelationships of soils with the physical and cultural landscape. 2 hrs lec, 2 hrs lab. |Prereq: jr st; Geog 120(P), 121(P), or 125(P) or equiv.

489 Internship in Geography, Upper Division. 1-6 cr. U. Application of advanced principles of geography in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Geog; 2.25 gpa; cons supervising faculty member.

496 UROP Apprenticeship, Upper Level. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. |May be retaken to 9 cr max. Prereq: jr st; acceptance to UROP.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

515 Watershed Analysis and Modeling. 3 cr. U/G. Theories and applications of analytical and modeling techniques for watershed processes, including geographic information systems (GIS), statistics, and computer simulations. |Prereq: jr st; working knowledge of GIS; Geog 415(R) or Geo Sci 463(R) or 562(R); or grad st.

515 (effective 09/04/2018) Watershed Analysis and Modeling. 3 cr. U. Theories and applications of analytical and modeling techniques for watershed processes, including geographic information systems (GIS), statistics, and computer simulations. |Prereq: jr st; working knowledge of GIS; Geog 415(R) or Geo Sci 463(R) or 562(R).

520 Physical Geography of the City. 3 cr. U/G. Spatial aspects and interactions of plants, animals, climate, soils, and water resources relevant to human activities in the urban environment. |Prereq: jr st & Geog 120(P) or 125(P); or grad st.

525 (effective 09/04/2018) Geographic Information Science. 4 cr. U. Geographic and information theoretical foundations of geographic information science (GIS). Use of macro languages in a software project to expand GIS functionality. 3 hrs lec, 2 hrs lab. |Prereq: jr st, & Geog 215(P).

525 Geographic Information Science. 4 cr. U/G. Geographic and information theoretical foundations of geographic information science (GIS). Use of macro languages in a software project to expand GIS functionality. 3 hrs lec, 2 hrs lab. |Prereq: jr st, & Geog 215(P); or grad st.

531 Insurgent Cities - Global Geographies of Urban Social Movements. 3 cr. U. Current and past social movements, activism, resistance, and revolution and their multiscalar geographies, from the urban, to the national, to the global. |Prereq: jr st.

540 Globalization and the City. 3 cr. U/G. Spatial aspects of globalization and their impact on the city. Topics include emergence of global cities, impacts on urban development, and global era urban strategies. |Prereq: jr st.

547 (effective 09/04/2018) Spatial Analysis. 4 cr. U. Advanced analysis techniques, including multivariate relationships and spatial modeling. |Prereq: jr st; Geog 247(P) or dept-approved equiv.

547 Spatial Analysis. 4 cr. U/G. Advanced analysis techniques, including multivariate relationships and spatial modeling.|Prereq: jr st; Geog 247(P) or dept-approved equiv.

564 Urban Environmental Change and Social Justice. 3 cr. U/G. Spatial aspects of contributors to urban environmental change affecting social justice. Inequitable distribution of environmental risks and benefits; challenge of developing policies.|Prereq: jr st.

600 Perspectives on Geography. 3 cr. U. Seminar on concepts, methods, and approaches to geographic inquiry. Discussion of professional geographic materials, bibliographic procedures and methodologies.|Prereq: sr st; declared geography major; writ cons instr.

625 Intermediate Geographic Information Science. 4 cr. U/G. Concepts and techniques of geographic information science (GIS), with emphasis on GIS-based spatial analysis, associated applications, and technology. 3 hrs lec, 2 hrs lab.|Prereq: jr st: Geog 525(P) or UrbPlan 591(P) or 791(P); or cons instr.

625 (effective 09/04/2018) Intermediate Geographic Information Science. 4 cr. U. Concepts and techniques of geographic information science (GIS), with emphasis on GIS-based spatial analysis, associated applications, and technology. 3 hrs lec, 2 hrs lab.|Prereq: jr st: Geog 525(P) or UrbPlan 591(P) or 791(P); or cons instr.

647 (effective 09/04/2018) ArcGIS Programming with Python. 4 cr. U. Fundamentals of Python programming language; focus on programming designed to automate ArcGIS geoprocessing tasks, manipulate spatial data (including geometries and rasters), and create customized tools.|Prereq: jr st; C+ or better in Geog 525(P) or cons instr.

647 ArcGIS Programming with Python. 4 cr. U/G. Fundamentals of Python programming language; focus on programming designed to automate ArcGIS geoprocessing tasks, manipulate spatial data (including geometries and rasters), and create customized tools.|Prereq: jr st; C+ or better in Geog 525(P) or cons instr or grad st.

650 Geography Field Work. 3 cr. U/G. Geographic field techniques and field problems; classroom preparations and field projects.|Students will pay fieldwork expenses. May be retaken w/chg in topic to 9 cr max. Prereq: jr st; writ cons instr.

654 Tropical Field Course: (Subtitled). 3 cr. U/G. Study of geographic field problems and techniques in the tropics. Classroom preparations, field projects and field trip to the tropics.|Students will pay field trip expenses. May be retaken for cr w/chg of field topic & site to 9 cr max. Prereq: jr st; writ cons instr.

696 Independent Work in Physical Geography. 1-3 cr. U. Independent reading or project on a physical geography topic under the supervision of a geography faculty member.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

698 GIS/Cartography Internship. 1-6 cr. U/G. Practical GIS/cartography experience with government agency or private firm under supervision of working expert and faculty member. Intern's contract specifies duties and duration.|May be retaken to 6 cr max. Prereq: jr st; Geog 215(P); writ cons instr & dept chair.

698 (effective 09/04/2018) GIS/Cartography Internship. 1-6 cr. U. Practical GIS/cartography experience with government agency or private firm under supervision of working expert and faculty member. Intern's contract specifies duties and duration.|May be retaken to 6 cr max. Prereq: jr st; Geog 215(P); writ cons instr & dept chair.

699 Independent Work. 1-3 cr. U. Independent reading or project. See Advanced Independent Study.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st, 2.5 gpa, & writ cons instr, dept chair & asst dean for SAS.

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GEO SCI Geosciences

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100 Introduction to the Earth. 3 cr. U. Study of earth processes and materials as they relate to man and the environment. Lec, lab.|Voluntary field trip for which fee is assessed. No cr for students w/cr in Geo Sci 185. Prereq: none.

102 Principles of Historical Geology. 3 cr. U. Principles for interpreting the physical and paleontological history of the earth using case studies from the rock record. 2 hrs lec, 3 hrs lab.|Field trip for which fee is assessed. Prereq: none.

105 Earth, Air, Fire and Water. 3 cr. U. A study of planet Earth from formation through history to modern-day oceans, atmosphere, continents, and interior; how all interact to form the human environment.|Prereq: none.

106 The Earth Environment. 3 cr. U. The Earth and its environment; emphasis on the interrelationships of humans with the Earth's processes and responses. Lec.|Voluntary field trip for which fee is assessed. Prereq: none.

108 A History of Life. 3 cr. U. Major features of the history of life; how paleontologists reconstruct this history. 2 hrs lec, 2 hrs lab.|Prereq: none.

109 Dinosaurs. 3 cr. U. The natural history of dinosaurs and how geologists and paleontologists reconstruct that history.|Prereq: none.

120 Geology of the Planets. 3 cr. U. Geological features of the planets, similarities and differences in materials and processes, significance of space exploration to geology. Lec/Lab.|Prereq: none.

150 Introduction to Ocean Sciences. 3 cr. U. Survey of the interdisciplinary sciences supporting oceanography. Designed for students who do not plan to major in geological sciences but are interested in the recent advances of marine sciences. Lec, voluntary dis.|Not open for cr to students who have had Geo Sci 460. Prereq: none.

151 Ocean Sciences Laboratory. 1 cr. U. Laboratory exercises and demonstrations of the physical, chemical and biological processes operating in the oceans and how scientists study these processes. 2 hrs lab.|Not open for cr to students who have had Geo Sci 460 or 461. Prereq: Geo Sci 150(C).

185 Introductory Earth Science for Teachers. 3 cr. U. A study of the rock cycle, water cycle and atmosphere of the earth and the essential processes that affect them. 2 hrs lec; 2 hrs lab/dis.|Not open for cr to students w/cr in Geo Sci

100, 105, or Atm Sci 105. Required field trips for which fees are assessed. Prereq: regis in elem, early childhood, or exc educ curric, EDBA classif, or cons instr.

194 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. |May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

208 Geology of Wisconsin. 1 cr. U. Introduction to the geologic events and processes which shaped the scenic Wisconsin landscape with emphasis on geologically significant recreational areas accessible to the public. |Not open for cr to students with Geo Sci 011. Prereq: college course in physical geology or physical geography.

250 Marine Science at Sea: A Hands-On Laboratory. 3 cr. U. Marine field work at sea from an oceanographic vessel. |Not open for cr to students who completed Geo Sci 150 at sea in UWinterim 2003. Prereq: Geo Sci 150(P) or cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. |May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Principles of Mineralogy. 3 cr. U. Major rock-forming minerals, their associations, geologic occurrence, and importance with an emphasis on identification using physical properties and other techniques. 2 hrs lec, 3 hrs lab. |Prereq: Geo Sci 100(P); course in college chem.

302 Elementary Petrology. 3 cr. U. Continuation of Geo Sci 301. Igneous and metamorphic rocks, including classification, genesis, field identification, and petrographic microscope study. 2 hrs lec, 3 hrs lab. |Required field trip for which fee is assessed. Prereq: Geo Sci 301(P).

316 Introduction to Geophysics. 3 cr. U. The study of geophysical methods and their applications to the understanding of the interior of the Earth and global tectonics. Lec. |Prereq: Geo Sci 100(P) or 101(P) & Physics 120(P) or 209(P).

317 Stable Isotope Geochemistry. 3 cr. U/G. To understand the fractionation and mass balance of stable isotope systems in nature and their application to geologic problems. |Prereq: jr st; Geo Sci 100(P) or 101(P); & Chem 104(C) & Geo Sci 301(P).

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics. |May be retaken w/chg in topic to 9 cr max. Field trips may be required. Prereq: soph st; Honors 200(P); cons Honors College dir.

400 Water Quality. 3 cr. U/G. Water availability and water quality in surface and subsurface water bodies; management of water as a resource. 2 hrs lec, 3 hrs lab. |Prereq: jr st; Chem 102(P); Math 232(P); or cons instr.

401 General Soil Science. 3 cr. U/G. Soil profile development, weathering, soil mineralogy, water and nutrient relationships, classification of soil. 2 hrs lec, 3 hr lab. |Required field trips for which fees are assessed. Prereq: jr st; Chem 104(P) or equiv or cons instr.

405 Geology for In-Service Teachers: (Subtitled). 1-3 cr. U/G. Basic, advanced or new topics in geology for in-service teachers. |May be retaken w/chg in topic to max of 9 cr. Prereq: in-service teacher, additional prereqs depending on topic.

409 Process Geomorphology. 3 cr. U/G. Study of geological processes and their effect on the formation and evolution of land forms. Lec, lab, field trips for which fee is assessed.|Prereq: jr st; Geo Sci 100(P), Geog 120(P), or 121(P).

414 Structural Geology. 3 cr. U. Description and analysis of primary and secondary geological structures; regional and global frameworks of geological structures. 2 hrs lec, 2 hrs lab.|Field trip for which fee is assessed. Prereq: jr st; Math Placement Level 40; Geo Sci 302(C).

435 History of Geologic Thought. 3 cr. U/G. History of development of the major concepts in geology.|Prereq: jr st; Geo Sci 102(P) or cons instr.

440 Geochemical Thermodynamics. 3 cr. U/G. Basic equilibrium thermo-dynamics applied to low-temperature and high-temperature geochemical problems.|Prereq: jr st, Chem 104(P), Geo Sci 301(P), & Math 231(P).

443 Glacial and Pleistocene Geology. 3 cr. U/G. Mechanics of glacial flow, Pleistocene stratigraphy, and laboratory techniques. Lec, lab, & field trips for which fees are assessed.|Prereq: jr st; Geo Sci 100(P) or 101(P) or Geog 120(P) or 121(P). Geo Sci 102(R) or 108(R).

455 Field Geology. 3-8 cr. U. Geologic field work and mapping. Taken off-campus, usually during the summer.|May be retaken to 8 cr max. Prereq: sr st; Geo Sci 302(P) & 414(P).

461 Physical Oceanography. 3 cr. U/G. Overview of physical oceanography, conservation of mass, salinity and momentum, thermodynamics, equations of motion. Waves, currents and circulation.|Prereq: jr st; Math 232(P); & Physics 123(P) or 210(P).

463 Physical Hydrogeology. 3 cr. U/G. Study of ground water occurrence, its interrelationship with surface water, aquifer properties, groundwater flow and water supply development, including well hydraulics, water quality, and groundwater law. Lec, lab, & field trip for which fee is assessed.|Prereq: jr st; Geo Sci 100(P) or 101(P); Math 232(P).

464 Chemical Hydrogeology. 3 cr. U/G. Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. Lec, lab.|Frshwtr 464 & Geo Sci 464 are jointly-offered; they count as repeats of one another. Prereq: jr st; Chem 102(P).

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

501 Phanerozoic Evolutionary Trends. 3 cr. U/G. Examination of Earth 's paleoecological patterns and their driving mechanisms. Counts as repeat of Geo Sci 696 or 697 w/same topic.|Prereq: jr st; Geo Sci 102(P).

511 Stratigraphy and Sedimentation. 3 cr. U/G. Techniques and principles of sedimentology and stratigraphy, including methods of correlation, analysis of facies, stratigraphic mapping, and tectonic controls of sedimentation. Lec, lab, field trips.|Prereq: jr st ; Geo Sci 102(P) or equiv.

515 Physical Sedimentology. 3 cr. U/G. Physical properties, processes, and environments of clastic sediments. Lec, lab, field trip for which fee is assessed.|Prereq: jr st; Geo Sci 511(P).

520 Introduction to Paleontology. 3 cr. U/G. General study of fossils and theoretical principles used in the study of paleontology. Lec, lab, field trips.|Prereq: jr st; Geo Sci 102 or 108.

525 Terroir: Geology in a Glass. 3 cr. U/G. The geology, soil types, and climate of famous wine regions; factors that influence the production of fine wine. |No cr for students w/cr in Geo Sci 696 w/same topic. Prereq: jr st; Geo Sci 100(P).

528 Biogeochemistry and the Fossil Record. 3 cr. U/G. Fermentation as a metabolic process; the organic geochemistry of fermentation; and procedures and protocols for fermentation experiments. |Prereq: jr st.

545 X-Ray Analytical Methods. 3 cr. U/G. Methods in x-ray diffractometry and spectrometry. Nature and generation of x-rays, collection and interpretation of powder diffraction patterns and elemental analysis using x-ray spectrometry. |Prereq: jr st; Geo Sci 301(P); satisfaction of OWC-A req; Chem 102(C).

558 Conducted Field Trip: (Subtitled). 1-3 cr. U/G. Field trip to a classical geologic area. Preceded by a seminar. |May be retaken w/chg in topic to 9 cr max, only 3 cr of which may be applied toward geo sci major. Prereq: jr st; cons instr.

562 Environmental Surface Hydrology. 3 cr. U/G. Land-atmosphere interactions, modeling of runoff generation, and water movement in the vadose zone. 3 hrs lec. |Prereq: jr st; Math 232(P); or cons instr.

563 Field Methods in Hydrogeology. 3 cr. U/G. Introduction to current equipment and methodology used in field evaluation of hydrologic systems. Well installation and monitoring, stream gaging, indirect surface observations. Lab, field trip for which fee is assessed. |Prereq: jr st; Geo Sci 463(P).

599 Geology of Wisconsin--Field Course. 3 cr. U/G. Multi-institutional team-taught, conducted field course throughout Wisconsin; instruction in the field, using exposures on which Wisconsin's geological history has been interpreted. |Prereq: jr st; Geo Sci 302(P).

614 Advanced Structural Geology. 3 cr. U/G. Advanced analysis of deformation as applied to geological structures from microscopic through regional scales. Lec, field trip for which fee is assessed. |Prereq: jr st; Geo Sci 414(P); Math 231(C).

635 Volcanology. 3 cr. U/G. Why and when volcanoes erupt; predicting whether eruptions will be explosive or passive. |Prereq: jr st; Geo Sci 302(P) or cons instr.

636 Geochronology. 3 cr. U/G. Theory and application of radiometric and other numerical dating methods in geology, archaeology, and paleoanthropology. |Anthro 636 & Geo Sci 636 are jointly offered; they count as repeats of one another. Prereq: jr st, Anthro 101(P) or 103(P) or Geo Sci 100(P), & cons instr; or grad st & cons instr.

637 Planetary Geology. 3 cr. U/G. Advanced study of planetary geology, for advanced undergraduate and graduate students. |No cr for students w/cr in Geo Sci 697 w/same topic. Prereq: jr st; Geo Sci 301(P) or Astron 211(P) or 400(P); completion of OWC-A GER (English 102 or equiv placement).

638 Advanced Igneous Petrology. 3 cr. U/G. Recent trends and applications in the fields of igneous petrology. Quantitative modelling of important petrologic processes. Critical reading of journal articles in petrology. Lec. |Prereq: jr st; Geo Sci 302(P).

655 Topics in Structure and Tectonics: (Subtitled). 1-3 cr. U/G. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Geo Sci 414(P) or cons instr.

668 Geoelectrical Methods. 3 cr. U/G. Fundamentals of electrical resistivity surveys and electromagnetic methods, with an emphasis on surficial and environmental applications. |Prereq: jr st; Geo Sci 316(C), 463(C), or 661(C).

688 Seminar in Geosciences for Teachers: (Subtitled). 1-6 cr. U/G. Seminar modules on various topics in geosciences offered for teachers. |Open only to practicing science teachers with demonstrable expertise in geoscience. May be retaken w/chg in topic to 9 cr max. Prereq: current teaching contract.

694 Undergraduate Seminar: (Subtitled). 1-3 cr. U. Intensive study of a selected topic in a seminar format. |May be retaken w/chg in topic to 9 cr max, of which up to 3 cr may count in major requirements. Prereq: jr st; cons instr.

695 Internship in Geoscience. 1-3 cr. U/G. An internship consistent with the student's plan of study in geosciences. Requirements and evaluation determined by the department on an individual basis. |Prereq: jr st; cons dept.

696 Topics in the Geological Sciences: (Subtitled). 1-3 cr. U/G. Add'l prereqs announced in Schedule of Classes each time course offered. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

697 Seminar in the Geological Sciences: (Subtitled). 1-3 cr. U/G. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

698 Research Experience for Teachers. 1-6 cr. U/G. Enrichment of students' geoscience background. Work with faculty mentor to develop an innovative teaching program for use in students' own classrooms. |Open only to practicing science teachers with demonstrable expertise in geoscience. May be retaken w/chg in topic to 9 cr max. Prereq: current teaching contract.

699 Advanced Independent Reading. 1-3 cr. U. Advanced independent geologic study under supervision of Geo Sci faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult supervising instr or dept chair. |May be retaken w/chg in topic to 3 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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GERMAN German

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101 First-Semester German. 4 cr. U. Introductory course for students who have had no previous work in German. | Prereq: 0-2 yrs of HS German or level 1 score on German placement test.

102 Second-Semester German. 4 cr. U. Continuation of German 101. | Prereq: grade of C or better in German 101(P) or level 2 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).

111 German Life and Civilization: Part I. 3 cr. U. The historical and cultural heritage of Germany from earliest times to 1806: major figures and developments in German art, literature, music, philosophy, and language. In English. | Prereq: none.

112 German Life and Civilization: Part II. 3 cr. U. The historical and cultural heritage of Germany from 1806 to the present: major figures and developments in German art, literature, music, education, and philosophy. In English. | Prereq: none.

112 (effective 09/04/2018) German Life and Civilization: Part II: (Subtitled). 3 cr. U. The historical and cultural heritage of Germany from 1806 to the present: major figures and developments in German art, literature, music, education, and philosophy. In English. | Not retakable for credit. Prereq: none.

115 Seminar on Scandinavian Culture: (Subtitled). 3 cr. U. In-depth study of a specific topic in Scandinavian culture, e.g., theatre, film, literature, women's issues, etc. | May be retaken w/chg in topic to 9 cr max. Prereq: none.

145 Views of Germany: (Subtitled). 3 cr. U. In-depth study of selected aspects of German civilization as reflected in literature. | May be retaken w/chg in topic to 9 cr max. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/change in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. | May not be retaken. Prereq: soph st; 2.5 gpa, cons instr & dept chair.

203 Third-Semester German. 3 cr. U. Continuation of German 102. |Prereq: grade of C or better in German 102(P) or level 3 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

204 German in Your Field and Beyond. 3 cr. U. Continuation of German 203. Grammar structures; vocabulary development through reading, writing, and speaking about subjects in students' fields of study; inter- and cross-disciplinary studies. |Prereq: grade of C or better in German 203(P) or level 4 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. |Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, Italian 213, Linguis 213, Polish 213, Russian 213 & Spanish 213. Prereq: none.

215 Reading for Research: (Subtitled). 3 cr. U. Basic grammatical principles and linguistic structures, augmented by individually-supervised readings in the student's field of specialization. Designed for students preparing for reading examinations. |May be retaken once for cr. Prereq: none.

289 Internship in German, Lower Division. 1-6 cr. U. Application of basic principles of German in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in German; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance in Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

331 Intermediate German Grammar and Usage. 3 cr. U. Review of major structures in German grammar; application of those structures through writing and speaking. Emphasis on written accuracy and proficiency. |Prereq: German 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

332 Intermediate Conversation and Composition. 3 cr. U. Practice in conversation and composition, with emphasis on issues in post-war and contemporary German culture, written accuracy, and proficiency. |Prereq: German 331(P). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

333 Analysis of German Texts. 3 cr. U. Introduction to a variety of texts in German; overview of basic textual analysis skills. |Students are encouraged to take 332 before 333. Prereq: German 331(P).

334 Introduction to German Literature and Culture. 3 cr. U. Survey of German literature and culture from 1750 to the present. |Students are encouraged to take 333 before 334. Prereq: German 332(P).

341 Undergrad Seminar in German-Amer Studies: Germans in Wisconsin & Milwaukee. 3 cr. U. Student projects and presentations on the various aspects of the German heritage in Wisconsin and Milwaukee. |Required of ethnic studies majors with a German-American concentration. Prereq: jr st.

360 German for the Global World. 3 cr. U. Vocabulary, writing, reading, and oral German skills needed for the global world. |Prereq: German 332(426)(P); German 333(R) & 334(R).

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. |May be retaken w/change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

410 German Cultural History. 3 cr. U/G. Major aspects of German culture from the Middle Ages to the end of the

18th century.|Prereq: jr st; German 332(426)(P); German 333(R) & 334(R).

415 Topics in German Civilization: (Subtitled). 3 cr. U/G. In-depth study of selected topics of German civilization. Critical analysis and practical application of texts and teaching aids. Recommended for present and future high school teachers.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; German 332(426)(P); German 333(R) & 334(R).

425 Introduction to German Translation. 3 cr. U. Introduction to skills necessary to professional translation from German to English. Text analysis, summarizing texts and terminology research will also be part of this class.|Prereq: jr st; German 332(426)(P), 333(R), & 334(R).

450 German Literature: Enlightenment, Storm and Stress, Classicism. 3 cr. U. Major literary movements and writers in the late eighteenth century. Emphasis on Lessing, Schiller, and Goethe.|Prereq: German 332(426)(P), 333(P), & 334(P).

451 Introduction to German Linguistics. 3 cr. U/G. The nature of linguistics; aspects of phonology, morphology, syntax, semantics; discourse and text; varieties of German; acquisition of German as a foreign language.|Prereq: German 332(426)(P).

454 German Literature: Realism, Naturalism, and the Turn of the Century. 3 cr. U. Major literary movements, writers, and works of the second half of the nineteenth century.|Prereq: German 332(426)(P), 333(P), & 334(P).

456 German Literature from the Turn of the Century to World War II. 3 cr. U. Major literary movements, writers, and works of the first half of the twentieth century; expressionism, 'Neue Sachlichkeit,' and exile literature.|Prereq: German 332(426)(P), 333(P), & 334(P).

460 German Literature from 1965 to the Present: 3 cr. U/G. Literary writers and works of the German-speaking countries from 1965 to the present.|Prereq: jr st; German 332(426)(P), 333(P), & 334(P).

488 Topics in German Philology: (Subtitled). 3 cr. U/G. Topics pertaining to advanced German language study or to the development of the German language in its spoken or written form.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; German 332(426)(P); German 333(R) & 334(R).

489 Internship in German, Upper Division. 1-6 cr. U. Application of advanced principles of German in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: German 332(426)(P), 333(P), & 334(P); 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

525 Seminar in Advanced German Translation. 3 cr. U. Refinement of translation skills; concentration on specific types of texts.|Prereq: jr st; German 425(P).

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

626 Advanced German Grammar and Usage. 3 cr. U/G. Analysis and discussion of a variety of text topics and genres. Practice in speaking and writing German; attention to written accuracy and sophistication of form.|Prereq: jr st; German 332(426)(C). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

643 Seminar on Genre Studies: (Subtitled). 3 cr. U/G. Major genres in German literature - the drama, the novel, the novelle, poetry and film. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; German 334 (P), & 6 cr German courses at the 400-level or above.

645 Seminar on Representative German Authors: (Subtitled). 3 cr. U/G. Works of representative authors. Any add'l prereqs announced in Schedule of Classes each time course is offered. |May be retaken w/chg in topic: undergrad, unlimited; grads, 9 cr max. Prereq: jr st; German 334 (P), & 6 cr German courses at the 400-level or above.

647 Seminar on Themes and Motifs in German Literature: (Subtitled). 3 cr. U/G. Recurring patterns and figures in the major genres. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; German 334(P), & 6 cr German courses at the 400-level or above.

649 Seminar on Theoretical Approaches to German Literature: (Subtitled). 3 cr. U/G. Particular theoretical ideas and methods applied to selected texts; literary movements in relation to philosophy and aesthetics. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; German 334 (P), & 6 cr German courses at the 400-level or above.

671 Seminar on Phonetics. 3 cr. U/G. Articulatory phonetics and phonemics, emphasis on English-German contrasts and pronunciation difficulties; phonetic transcription; drills in pronunciation. |Prereq: jr st; German 331(P).

672 German for Professional Purposes. 3 cr. U/G. Language and structures of Germany's professional world. Historical, political, legal, economic, social and cultural forces shaping Germany today. |Prereq: jr st; German 332(426) (P), 333(P)& 334(P).

681 Seminar on the History and Structure of German. 3 cr. U/G. Historical development of the German language from its beginnings to the present. |Prereq: jr st; German 332(P).

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. |May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a German faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult the German program coord. |May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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GREEK Greek

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103 First Semester Greek. 4 cr. U. Systematic introduction to the morphology, syntax, and vocabulary of ancient Greek.|Prereq: none.

104 Second Semester Greek. 4 cr. U. Continuation of Greek 103; systematic introduction to the morphology, syntax, and vocabulary of Greek.|Prereq: Greek 103(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

205 Third Semester Greek. 4 cr. U. Continuation of Greek 104: systematic introduction to the morphology, syntax, and vocabulary of Greek.|Prereq: Greek 104(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro crs).

289 Internship in Greek, Lower Division. 1-6 cr. U. Application of basic principles of Greek in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Greek; 2.25 gpa; cons supervising faculty member.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

306 Readings in Ancient Greek Literature: (Subtitled). 3 cr. U. Reading of texts of Greek literature, with emphasis on morphology, syntax, and vocabulary.|Counts as repeat of only 1 cr of Greek 304 regardless of the number of times 306 is taken. May be retaken w/chg in topic; no max cr. Prereq: Greek 205(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (12 retro crs).

489 Internship in Greek, Upper Division. 1-6 cr. U. Application of advanced principles of Greek in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Greek; 2.25 gpa; cons supervising faculty member.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

501 Readings in Classical Greek Prose: (Subtitled). 3 cr. U/G. Extensive reading in a major author, or in related authors, of ancient Greek prose; e.g., Herodotus, Thucydides, Plato, the Attic Orators, Aristotle, Lucian. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

502 Readings in Ancient Greek Poetry: (Subtitled). 3 cr. U/G. Extensive reading in a major author, or related authors, of ancient Greek poetry; e.g., Homer, the Greek lyric poets, the Attic tragedians, Aristophanes, Menander, Theocritus. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

699 Directed Reading. 1-3 cr. U. Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord. | May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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HIA Health Information Admin

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HCA Health Care Administration

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203 Human Life Cycle. 3 cr. U. Views of leading theorists and recent research in the field of human development will be presented with emphasis on biopsychosocial aspects of the five major stages of development from prenatal through senescence.|Prereq: soph st or cons instr.

212 Drugs Used and Abused. 3 cr. U. An introduction to the mechanisms, actions, uses and abuses of selected licit and illicit drugs from a public health perspective.|Prereq: soph st or cons instr.

220 Leading Healthcare Professionals. 3 cr. U. Introduction to effective healthcare leadership of self, others, and groups in complex healthcare settings. Emphasis on leader understanding own temperament and values and healthcare context.|Prereq: none.

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.|BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Prereq: soph st or cons instr.

260 Gerontology for Health Care Administrators. 3 cr. U. The administrator's responsibility for improving resident quality of life in long-term care organizations through an overview of sociological, psychological, and biological aspects of aging.|Prereq: none.

290 Selected Topics in Health Information Administration: (Subtitled). 1-3 cr. U. Content to be determined as instructional need arises.|May be retaken for cr w/chg in topic. Prereq: none, except as specified for topic.

297 Study Abroad. (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance to Study Abroad Prog.

307 Epidemiology for the Health Sciences. 3 cr. U. Introduction to the etiology and distribution of disease and risk factors associated with the determination of disease; applications of epidemiology to the health science professions.|Prereq: HMS 270(P) or MthStat 215(P)

333 Health Organizations Professional Practice Standards. 2 cr. U. Overview of regulatory statutes, licensure

requirements, accreditation and other professional practice standards that affect healthcare organizations. |Prereq: jr st in Hlth Sci or minor in HCA.

340 Healthcare Process Measurement. 3 cr. U. Compilation and presentation of healthcare statistics; use of statistical analysis and graphic presentation of data to examine healthcare processes and support decision-making. |Prereq: jr st in HlthSci; HMS 270(P) or MthStat 215(P).

361 Structure and Functions of Long-Term Care Facilities. 3 cr. U. Nursing home administrator's domains of practice, nursing facility management innovations, and the long-term care continuum through lectures and site visits. |Prereq: HCA 260(P); or cons instr.

362 Legal and Regulatory Aspects of Long-Term Care Facilities. 3 cr. U. Legal and regulatory environment of the nursing facility. Reviews state and federal requirements and overviews the survey process designed to protect resident well-being. |Prereq: HCA 311(C) & 361(P); or cons instr.

411 Disease Classification Systems I. 3 cr. U. Disease classification systems with emphasis on hospital applications. |Prereq: HCA 222(HIA 222)(P) or equiv; or cons instr.

421 Operations Management in Healthcare Organizations. 3 cr. U. Application of operations management principles to management of healthcare organizations. Emphasis on tools to plan, organize and control. |Prereq: Bus Adm 350(P).

422 Human Resource Management in Healthcare Organizations. 3 cr. U. Introduction of human relation concepts as it applies to the health care organizations. Emphasis on the application of management responsibilities. |Prereq: jr st in Hlth Sci or HCA minor.

423 Health Information Administration in Specialized Healthcare Facilities. 4 cr. U. Study of health information systems in ambulatory, long-term, home health, and other non-hospital settings; site visits and site-specific projects. |Prereq: sr st in HCA or cons instr.

430 Patient Registration Management. 3 cr. U. |Prereq: none.

444 Introduction to Text Retrieval and Its Applications in Biomedicine. 3 cr. U/G. Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods. |Jointly offered with & counts as repeat of CompSci 444, CompSci 744, & HCA 744. Prereq: jr st; CompSci 351(P) or HCA 442(P).

450 Healthcare Quality Management. 3 cr. U. Theory and development of quality assessment programs in healthcare; involvement of governing board, administration, medical staff, includes review of risk and utilization management programs. |Prereq: C L Sci 301-305(P); HMS 270(P) or MthStat 215(P).

460 Healthcare Reimbursement Systems and Policies. 3 cr. U. History and functioning of healthcare reimbursement systems. Emphasis on the policies and procedures of government and major third party systems. |Prereq: HCA 421(P).

480 Competency-Based Internship in Long-Term Care Facilities. 3 cr. U. A supervised clinical practicum serving as the capstone fieldwork experience for HCA majors obtaining a sub-major in long-term care administration. |Prereq: HCA 362(C) & cons instr.

497 Study Abroad. (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: jr st; acceptance to Study Abroad Prog.

502 Healthcare Delivery Systems: National and International Perspectives. 3 cr. U. An analysis of health delivery systems in the U.S. and abroad. |Prereq: jr st & completion of HS 102(HCA 102)(P).

520 Clinical Practicum. 3 cr. U. Assignments to local health information centers for practical experience; weekly meetings and projects also required. | Prereq: sr st in HCA.

521 Advanced Systems Thinking for Healthcare Leaders. 3 cr. U/G. An in-depth view of systems theory, Deming's system of profound knowledge, and Goldratt's theory of constraints and how these theories can improve healthcare organizations. | Prereq: jr st; HCA 340(P) & Bus Adm 330(P).

537 Introduction to Healthcare Databases and Technologies. 3 cr. U/G. Introduction to origins, sources and content of healthcare data; technologies used to manage and control healthcare databases. | Prereq: jr st in Hlth Sci or minor in HCA or HCI cert or cons instr; HS 224 (HCA 224)(P) or L&I Sci 110(P) or Bus Adm 230(P).

540 Health Information Professional Practice. 4 cr. U. Four-week professional practice working with and under supervision of an information manager. Pre-practice meetings and post-practice seminar. | Prereq: sr st in HCA, HCA 520 (HIA 520)(P).

541 Healthcare Information Systems Analysis and Design. 3 cr. U/G. Overview of health facility computerized information systems. Information systems theory, systems analysis, and implementation of computer systems from a managerial/planning perspective. | Prereq: jr st, HCA 537(P); or grad st.

542 Healthcare Database Design and Management. 3 cr. U/G. Study of database structure, data models, and operations issues. Emphasis on data security, integrity, integration, and access. Healthcare database applications. | Prereq: jr st, HCA 541(P); or grad st.

580 Health Care Administration Internship. 4 cr. U. Capstone course/Internship experience with administrators in health care agencies and health-related organizations (e.g., hospitals/health systems, ambulatory care/group practices, managed care, rehabilitation facilities, residential/long-term care). | May be retaken to max of 12 cr. Prereq: sr st in HCA prog & cons internship coordinator.

590 Topics in Health Sciences: (Subtitled). 1-3 cr. U/G. Topics of current interest within the field of health sciences. The theme for each semester's offering will be posted. | May be retaken w/chg in topic to max of 9 cr for grad students. Prereq: jr st; cons instr for grad cr.

699 Advanced Independent Study: 1-3 cr. U/G. | May be retaken with change in topic. Prereq: U: jr st, 2.5 gpa, writ cons instr; G: grad st; writ cons instr.

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HEBR ST Hebrew Studies

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100 Introduction to Judaism. 3 cr. U. Laws, beliefs, rituals, and holidays of the Jewish religion and people; development of Judaism. |No cr for students w/cr in Hebr St 238 w/same topic. Prereq: none.

101 First Semester Hebrew. 4 cr. U. For students with no previous knowledge of Hebrew. Elements of reading and grammar, vocabulary building, and fundamental principles of the language. Reading in simple narrative Hebrew prose. Language laboratory required. |Not open to native speakers of Hebrew. May not be taken for cr by students who have completed Hebr St 51 or 52. Prereq: none.

102 Second Semester Hebrew. 4 cr. U. Continuation of Hebr St 101. Language laboratory required. |Not open to native speakers of Hebrew. No cr for students who have cr in Hebr St 53 & 54. Prereq: Hebr St 101(P) or 51(P) & 52(P). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. |May be retaken w/chg in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. |May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

201 Third-Semester Hebrew. 4 cr. U. Advanced grammar and idiom. Easy selections from the Bible and later Hebrew literature. |Not open to native speakers of Hebrew. Prereq: Hebr St 102(P) or 54(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

202 Fourth-Semester Hebrew. 4 cr. U. Continuation of Hebr St 201. |Not open to native speakers of Hebrew. Prereq: Hebr St 201(P). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

216 Conversation: Elementary Level. 2 cr. U. |Prereq: Hebr St 215(P).

230 Bible Stories. 3 cr. U. Introduction to the central stories of the Hebrew Bible with particular attention to their

literary, aesthetic, social and moral meanings|Prereq: none.

231 Introduction to the Old Testament/Hebrew Bible. 3 cr. U. The books of the Jewish Scriptures/Christian Old Testament; brief survey of history of ancient Israel. Emphasis on reading biblical texts as ancient religious literature.|Prereq: none.

235 The Dead Sea Scrolls and the Bible. 3 cr. U. Literature and theology of the 'Dead Sea Scrolls,' emphasizing their relationship to the Bible. Their importance for studying the history of early Judaism and Christianity.|Prereq: none.

238 Topics in Hebrew/Jewish Literature, Art, and Culture: (Subtitled). 3 cr. U. Introduction to various aspects of Hebrew/Jewish literature, art, and culture; possible topics include biblical literature, Israeli film, children's literature, drama, Israeli culture, Holocaust literature.|May be retaken w/chg in topic to 9 cr max. Prereq: none.

254 Studies in Hebrew Culture: (Subtitled). 3 cr. U. Various thematic approaches to Hebrew culture.|May be retaken w/chg in topic to 6 cr max. Prereq: none.

261 Representing the Holocaust in Words and Images. 3 cr. U. Holocaust literature and film; issues of representation and memory. Texts include memoirs, graphic novels, fiction, and documentaries.|No cr for students w/cr in Hebr St 238 with same topic. Hebr St 261 & Jewish 261 are jointly offered; they count as repeats of one another. Prereq: none.

289 Internship in Hebrew Studies, Lower Division. 1-6 cr. U. Application of basic principles of Hebrew studies in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Hebr St; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Modern Hebrew Literature I in Hebrew. 3 cr. U. Selections from modern Hebrew prose and poetry up to 1948. Course conducted substantially in Hebrew.|Not open for cr to students w/cr in Hebr St 303. Prereq: jr st. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

302 Modern Hebrew Literature II in Hebrew. 3 cr. U. Selections from modern Hebrew prose and poetry from 1948 to the present. Course conducted substantially in Hebrew.|Not open for cr to students w/cr in Hebr St 304. Prereq: jr st. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

331 Topics in Biblical Literature: (Subtitled). 3 cr. U. Analysis of genres or issues in biblical literature; topics may include wisdom literature, prophetic writings, Bible as literature, God in the Old Testament.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

332 Women in the Bible. 3 cr. U. Analyzes stories about women in the Old Testament from a literary, cultural and historical perspective; includes how these texts have influenced modern views of women.|Prereq: jr st.

368 Jewish and Christian Responses to the Holocaust. 3 cr. U. Jewish and Christian answers to theological questions raised by the Holocaust, such as 'Where was God?' Focus on interfaith dialogue and understanding.|No cr for students w/cr in Hebr St 254 with same topic. Hebr St 368(268) & Jewish 368(268) are jointly offered; they count as repeats of one another. Prereq: jr st.

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course

credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

470 Readings in Rabbinic Literature: (Subtitled). 3 cr. U. Analysis of a selected genre of rabbinic literature in its original language(s), including readings from the Targum, Midrash, or Mishna. | May be retaken w/chg in topic to 9 cr max. Prereq: Hebr St 206(P) or 202(P); Hebr St 411(R).

489 Internship in Hebrew Studies, Upper Division. 1-6 cr. U. Application of advanced principles of Hebrew studies in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Hebr St; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Independent Study. 1-3 cr. U. Advanced independent work under the supervision of a Hebr St faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Hebr St prog coord. | May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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101 Western Civilization: Ancient World to 1500. 3 cr. U. A survey of major themes in the social, political, and cultural development of the western world from its ancient origins to 1500.|Prereq: none.

102 Western Civilization: 1500 to the Present. 3 cr. U. A survey of major themes in the social, political, and cultural development of the western world from 1500 to the present.|Prereq: none.

131 World History to 1500. 3 cr. U. Global perspective on the development of the civilizations of Europe, Africa, Asia, and the Americas from prehistoric times to the dawn of the modern era.|Prereq: none.

132 World History Since 1500. 3 cr. U. Global perspective on the development and integration of the civilizations of the world from the age of European expansion to the present.|Prereq: none.

141 The Family and Sex Roles in the Past. 3 cr. U. Change in the structure and function of families and gender roles. Topics include demography, kinship and inheritance, child-rearing, birth control, feminism, and homosexuality.|Prereq: none.

150 Multicultural America. 3 cr. U. Cross-cultural study of U.S. ethnic and racial identities through materials from literature, history, and the media, with attention to African-, Asian-, Hispanic-, and Native-American experiences.|Cultures and Communities Prog course; req'd service learning component. Prereq: none.

151 American History: 1607 to 1877. 3 cr. U. Survey of American social, political and economic development to 1877.|Prereq: none.

152 American History: 1877 to the Present. 3 cr. U. Survey of American social, political, diplomatic, and economic development, from 1877 to the present.|Prereq: none.

175 East Asian Civilization to 1600. 3 cr. U. Survey of the culture, history, and institutions of China, Korea, and Japan from earliest times.|Prereq: none.

176 East Asian Civilization Since 1600. 3 cr. U. Survey of the culture, history, and institutions of China, Korea, and Japan since 1600.|Prereq: none.

180 Latin American Society and Culture. 3 cr. U. Lecture course designed to familiarize students with the broad parameters of Latin American history, emphasis on themes of continuity and change. |No cr for students with cr in Hist 388, 389, or 390. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. |May be retaken w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

200 Historical Roots of Contemporary Issues: (Subtitled). 3 cr. U. This course examines the historical dimensions and demonstrates the importance of historical thinking for the understanding of contemporary problems and crises. |May be retaken w/chg in topic. Prereq: none.

201 The Ancient World: The Near East and Greece. 3 cr. U. Mesopotamians, biblical Palestinians, Assyrians, Medes, Persians, and Greeks to 323 B.C.E. |Not open for cr to students who have had any Hist courses numbered 121, 303, or 304. Prereq: none.

202 The Ancient World: The Roman Republic and Empire. 3 cr. U. Survey of the history of ancient Rome from its beginnings to the time of Constantine the Great. |Not open for cr to students who have had any Hist courses numbered 122, 307 or 308. Prereq: none.

203 The History of Medieval Europe: The Early Middle Ages. 3 cr. U. Studies in the history of Europe and the Mediterranean world from the fourth to the tenth centuries. |Prereq: none.

204 The History of Medieval Europe: The High Middle Ages. 3 cr. U. Studies in the history of Europe and the Mediterranean world from the eleventh to the fourteenth centuries. |Prereq: none.

205 Europe from the Italian Renaissance to the French Revolution. 3 cr. U. Early modern Europe, 1400-1815, including Renaissance, Reformation, Absolutism, Scientific Revolution, Enlightenment, and French Revolution. |Prereq: none.

206 Europe and the Modern World: 1815 to the Present. 3 cr. U. Survey of the political, economic, social, and cultural history of modern western civilization. |Not open for cr to students w/cr in Hist 374 or 375. Prereq: none.

210 The Twentieth Century: A Global History. 3 cr. U. War, revolution, colonialism in global perspective; role of science, communication, and technology; shifting concepts of gender, class, race, and authority; internationalization of ideas and commerce. |Prereq: none.

215 History of Capitalism. 3 cr. U. Examines the role of property rights, technology, forms of enterprise, and business-state relations and the economic benefits and social costs of economic change. |Prereq: none.

229 History of Race, Science, and Medicine in the United States. 3 cr. U. Education and professionalization of minorities in science, medicine, and nursing; minorities as patients and scientific subjects; biographies of minority scientists; scientific theories of racial inferiority. |Prereq: none.

235 English History to 1688. 3 cr. U. Celtic period, Roman occupation, the Anglo-Saxons, Christianization of England, Norman conquest, feudalism, medieval peasantry, Black Death, rise of the Tudors, Renaissance, Reformation, English revolution. |Prereq: none.

236 Britain Since 1688: Rise and Decline of a Great Power. 3 cr. U. Examines change and continuities in British life from 1688 to the present against the backdrop of industrialization, imperial expansion, industrial decline, and decolonization.|Prereq: none.

239 Poland and its Neighbors, 1795-1914. 3 cr. U. The Polish lands and Central Europe in the 19th century, from the Napoleonic era to the First World War.|Prereq: none.

241 Women and Gender in Europe: 1350 to 1750. 3 cr. U. Social, economic, cultural, religious, and political aspects of the history of women from the Middle Ages to the Enlightenment.|Prereq: none.

242 Women and Gender in Europe: 1750 to the Present. 3 cr. U. Social, economic, cultural, religious and political aspects of the history of women and gender from the Enlightenment to the present.|Prereq: none.

243 History of Women in American Society. 3 cr. U. The changing, economic, social, and political roles of American women, their relationship to public and private life, and their evolving self-consciousness.|Not open to students who have taken Hist 423. Prereq: none.

246 Homosexuality in History. 3 cr. U. Survey of patterns and representations of male and female homosexuality in western history and culture from antiquity to the present.|Prereq: none.

248 The First World War. 3 cr. U. Origins and course of what became the Great War. The peace settlements. Emphasis on economic and social change as well as military and diplomatic matters.|Prereq: none.

249 The Second World War in Europe. 3 cr. U. The origins and course of the war in Europe from 1939 to 1945. Emphasis on political and diplomatic aspects as well as military matters.|Prereq: none.

262 North American Indian History to 1887. 3 cr. U. A survey of Native American history from aboriginal times to 1887. Emphasis will be placed on American policies and change within Indian societies.|AIS 262 & Hist 262 are jointly offered; they count as repeats of one another. Prereq: none.

263 North American Indian History Since 1887. 3 cr. U. A survey of American Indian history since 1887 with emphasis on federal policies and changing Indian societies in the twentieth century.|AIS 263 & Hist 263 are jointly offered; they count as repeats of one another. Prereq: none.

267 The History of Latinos in the United States. 3 cr. U. History and culture of Latinos in the United States from the colonial period to the present; emphasis on Mexican American, Puerto Rican, and Cuban experiences.|Hist 267 & Latino 267 are jointly offered; they count as repeats of one another. Prereq: none.

268 History of the American West. 3 cr. U. The American frontier experience; Indian policy, expansion; fur trade; settlement; communications, mining frontier; cattle frontier, and the impact of westward expansion on the nation.|Prereq: none.

269 Asian Americans in Historical Perspective. 3 cr. U. The history of Asians in the United States from 1849 to the present emphasizing the Chinese, Japanese, Filipino, Korean, and southeast Asian experiences of immigration, discrimination, and assimilation in different regions in the United States.|Prereq: none.

270 Topics in American History: (Subtitled). 3 cr. U. American historical topics of current importance.|May be retaken w/chg in topic. Students may take any combination of Hist 250, 270 & 290 not to exceed 9 cr. Prereq: none.

271 The 1960s in the United States: A Cultural History. 3 cr. U. Overview of social upheavals; how 1960s shaped racial and ethnic identities, youth culture, sexual mores, community activism, art and fashion, political values; decade's enduring influence.|Prereq: none.

272 The Blues: History and Culture. 3 cr. U. Influence of blues music on American cultural history; the blues as expression of African American experience.|Prereq: none.

274 Ancient Egyptian Civilization. 3 cr. U. Culture of Egypt, with particular attention to its literature reflecting social, political, and religious conditions; emphasis on Egyptian-Hebrew contacts during the second millenium.|Classic (Hebr St) 274 & Hist 274 are jointly offered; they count as repeats of one another. Prereq: none.

280 Islamic Civilization: The Formative Period, ca. 500-1258. 3 cr. U. The rise and spread of Islam in medieval times; its social and political history and its contribution to world civilization.|Prereq: none.

282 The Modern Middle East in the Nineteenth and Twentieth Centuries. 3 cr. U. The challenge of colonialisms--Ottoman, Portuguese, French and British--and the response of nationalisms--Arab, Turkish, Persian, and Zionist; also the Arab-Israeli conflict.|Prereq: none.

284 Buddhism Across Asia. 3 cr. U. History of Buddhism from the 5th century BCE to the present.|Prereq: none.

285 The Second World War in the Pacific. 3 cr. U. Origins and conduct of the Second World War in the Pacific from both the Japanese and American standpoints.|Prereq: none.

286 The Korean War. 3 cr. U. Origins, conduct, and meaning of the Korean conflict, 1950-1953.|Prereq: none.

287 The Vietnam War. 3 cr. U. A political, social, and cultural history of the Vietnamese and American dimensions of the war in Vietnam.|Prereq: none.

289 Internship in History, Lower Division. 1-6 cr. U. Application of basic principles of history in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Hist; 2.50 gpa; writ cons supervising faculty member & dept chair.

290 Topics in Global History: (Subtitled). 3 cr. U. Global, comparative, and non-western historical topics of current importance.|May be retaken w/chg in topic. Students may take any combination of Hist 250, 270, & 290 not to exceed 9 cr. Prereq: none.

293 Seminar on Historical Method: Theory and Approach. 3 cr. U. Systematic exploration of the varieties of historical thought and of common problems in writing history, including causation, generalization, objectivity, purpose and value of history.|Not open for cr to students w/cr in, and does not count as repeat of, Hist 291. Prereq: none.

294 Seminar on Historical Method: Research Techniques. 3 cr. U. The practical problems of historical research: question-framing, research design, use of sources, bibliography, archives and manuscript collections, quantification; evidence, verification, and exposition.|Prereq: none.

295 Historical Encounters: (Subtitled). 3 cr. U. Studies in history of contacts and conflicts between differing civilizations. European, Near Eastern, Asian, African, and American topics are treated in cross-cultural perspective.|May be retaken w/chg in topic to 9 cr max. Prereq: none.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before coursework level, content and credits are determined and/or in specially prepared program coursework.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires

only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

302 History of Christianity, East and West Since 1500. 3 cr. U/G. Development of the institutional church; major church leaders, theological and doctrinal changes; worship, liturgy and arts of Christendom; Christianity and social change. | Prereq: jr st; satisfaction of GER English Composition competency req.

303 A History of Greek Civilization: The Greek City-State. 3 cr. U/G. Greek history from prehistoric times to the death of Alexander the Great. | Prereq: jr st; satisfaction of English Composition competency req.

304 A History of Greek Civilization: The Age of Alexander the Great. 3 cr. U/G. The Macedonian state to the death of Alexander the Great; the Hellenistic states. | Prereq: jr st; completion of GER English Composition competency req.

307 A History of Rome: The Republic. 3 cr. U/G. Roman history from the beginnings of the Roman state to the death of Julius Caesar. | Prereq: jr st; satisfaction of English Composition competency req.

308 A History of Rome: The Empire. 3 cr. U/G. Roman history from the death of Julius Caesar to the fall of the empire in the west. | Prereq: jr st; satisfaction of English Composition competency req.

318 Medieval Civilization: The High Middle Ages. 3 cr. U/G. The intellectual development of medieval Europe, from the twelfth century to the fourteenth century. | Prereq: jr st; completion of GER English Composition competency req.

319 The Era of the Crusades. 3 cr. U/G. A consideration of the relationships between western Europe and the East in the period of the Crusades. | Prereq: jr st; satisfaction of English Composition competency req.

320 History of Medieval Warfare. 3 cr. U/G. Evolution of warfare in the Middle Ages; technology, tactics, strategy, and interaction with politics and culture. | Prereq: jr st; completion of GER English Composition competency req.

325 The Renaissance. 3 cr. U/G. Culture and society in Europe from the fourteenth to the sixteenth century; early Italian Renaissance to Elizabethan England; the Age of Discovery. | Prereq: jr st; satisfaction of English Composition competency req.

326 The Reformation. 3 cr. U/G. Major religious movements and leaders of the sixteenth century; social and intellectual history of the Protestant and Catholic Reformations. | Prereq: jr st; satisfaction of English Composition competency req.

329 The Roman Catholic Church, 1500 to the Present. 3 cr. U/G. History of the Catholic Church from the Renaissance to the present. | Prereq: jr st; satisfaction of GER English Composition competency req.

330 The Papacy in History. 3 cr. U/G. Examination of the papacy, the world's most visible and influential religious office, from its origins to the present. | Not open to students w/cr in Hist 600 w/same topic. Prereq: jr st; satisfaction of GER English Composition competency req.

341 Imperial Russia. 3 cr. U/G. Development of autocracy and expansion of Russia's multi-ethnic empire; Russian economic, political, and intellectual developments under the tsars; reform and revolution. | Prereq: jr st; satisfaction of GER English Composition competency req.

343 Russia Since 1917. 3 cr. U/G. Russian cultural, social, and political history since the revolutions of 1917. | Prereq: jr st; satisfaction of GER English Composition competency req.

345 The Modern Balkans: Nationalism, War, and Democracy. 3 cr. U/G. Fall of the Ottoman Empire; revolutionary movements; emergence of national states; socio-political and cultural developments; Second World War; socialist regimes; civil wars and democratic transitions. | Prereq: jr st; completion of GER English Composition competency req.

346 Poland and Its Neighbors, 1914-1945. 3 cr. U/G. The effects of two world wars in East-Central Europe. The independence and subjugation of Poland, Czechoslovakia, Hungary and the Baltic States.|Prereq: jr st; satisfaction of GER English Composition competency req.

348 Poland and Its Neighbors, 1945 to the Present. 3 cr. U/G. Developments in Poland, East Germany, Czechoslovakia, and Hungary since the Second World War. The origins, development, decline, and fall of communist rule in Central Europe.|Prereq: jr st; satisfaction of GER English Composition competency req.

353 Ireland Since 1600: Colony to Independent State. 3 cr. U/G. Irish history from 1600 to the present. Topics include the famine, nationalism, and relationship with England.|Prereq: jr st; satisfaction of GER English Composition competency req.

355 (effective 09/04/2018) Modern and Contemporary France. 3 cr. U/G. France as a political experiment, complex society, intellectual and cultural center, and imperial power since 1815, with emphasis on the period since the late nineteenth century.|Prereq: jr st; satisfaction of GER English Composition competency req.

358 The Jews of Modern Europe: History and Culture. 3 cr. U/G. History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.|Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another. Prereq: jr st.

363 Germany: Hitler and the Nazi Dictatorship. 3 cr. U/G. Rise and fall of Third Reich; Weimar Republic and collapse; Hitler's conquest of power, national socialist state, World War II; catastrophe and reconstruction.|Prereq: jr st; satisfaction of GER English Composition competency req.

364 The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45. 3 cr. U/G. The rise of Nazism; anti-Semitism; annihilation of Jews and other ethnic and religious minorities; Jewish responses and resistance; legacy of persecution.|Not open for cr to students with Hist 295 'Historical Encounters: The Holocaust.' Prereq: jr st; satisfaction of English Composition competency req.

370 Topics in the History of Religious Thought: (Subtitled). 3 cr. U/G. Selected topics in the history of religious thought, for graduate and advanced undergraduate students. Intensive reading and student reports will be stressed.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of English Composition competency req.

371 Topics in European History: (Subtitled). 3 cr. U/G. Selected themes and issues in European history.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; completion of GER English Composition competency req.

372 Topics in Global History: (Subtitled). 3 cr. U/G. Selected issues in global history.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; completion of GER English Composition competency req.

373 Topics in Gender and History: (Subtitled). 3 cr. U/G. Selected topics in the history of gender, family, and sexuality.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of English Composition competency req.

374 Europe: The Age of the Dictators, 1914-1945. 3 cr. U/G. Fascism, communism, and the decline of democracy; origins and consequences of the First and Second World Wars.|Prereq: jr st; satisfaction of English Composition competency req.

375 Contemporary European History, 1945 to the Present. 3 cr. U/G. The Cold War; the recovery of Europe; student revolutions and spiritual crisis; economic stagnation; moves toward European unification; breakup of the Soviet bloc.|Prereq: jr st; satisfaction of GER English Composition competency req.

376 History of Ancient China, Earliest Times to 220 A.D. 3 cr. U/G. History of China through First Unification and Great Empire of Han Dynasty; attention to development of distinctive qualities of Chinese philosophy, politics, society, and material culture.|Prereq: jr st; satisfaction of English Composition competency req.

377 Modern China. 3 cr. U/G. China in the nineteenth and twentieth centuries, from the Opium Wars to the establishment of People's Republic in 1949. Major political, economic and social issues.|Prereq: jr st; satisfaction of English Composition competency req.

378 Revolution in China. 3 cr. U/G. History of the socialist revolution in China. Background examination of the Chinese communist movement, but major emphasis on People's Republic from 1949 to the present.|Prereq: jr st; satisfaction of GER English Composition competency req.

379 Introduction to Jewish History. 3 cr. U. Historical survey of major currents in Jewish culture and society from antiquity to the present day, with particular focus on the modern era.|Hist 379 & Jewish 379 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

380 Buddhism: A Cultural History. 3 cr. U/G. Development of Buddhist culture in Asia and contemporary globalized world; intertwining themes of individual purification and Buddhist visions of just and unjust societies.|Prereq: jr st; completion GER English Composition competency req.

382 Southeast Asia: The Age of Imperialism and Revolution Since 1800. 3 cr. U/G. A survey of the region beginning with the European occupation of the mainland and ending with the Vietnam War.|Prereq: jr st; satisfaction of GER English Composition competency req.

383 North Africa from the Arab Conquest to the Present. 3 cr. U/G. The process of Islamization, Arabization, and urbanization of North Africa from the seventh century to the present, including the Spanish-North African interrelationship.|Prereq: jr st; satisfaction of GER English Composition competency req.

385 Political Islam to Zionism: Middle Eastern Intellectual History, 1789-1990. 3 cr. U/G. Modern Middle Eastern political ideas; Napoleon's 1798 invasion of Egypt to 1979 Iranian Revolution and its aftermath; feminism, radical Islam, Arab socialism, Zionism, nationalism, colonialism.|Counts as repeat of Hist 401 w/similar topic. Prereq: jr st; satisfaction of GER English Composition competency req.

386 Africa: The Age of Empires to 1880. 3 cr. U/G. Survey of the highlights of early African history; empires black and white; religion; slavery; material culture.|Prereq: jr st; satisfaction of English Composition competency req.

387 Africa: Imperialism and Independence Since 1880. 3 cr. U/G. The phases of colonial relationships and the parties involved; conquest, pacification, and independence of African states.|Prereq: jr st; satisfaction of GER English Composition competency req.

392 The History of Southern Africa. 3 cr. U/G. Surveys the history of South Africa and Zimbabwe with special reference to the twentieth century, comparing their struggles for majority rule.|Prereq: jr st; satisfaction of GER English Composition competency req.

393 History of Mexico. 3 cr. U/G. An upper-division survey course spanning all periods of Mexican history, with special emphasis on the historical origins and development of major contemporary issues.|Prereq: jr st or cons instr; satisfaction of GER English composition competency req.

394 History of Japan to 1600. 3 cr. U/G. Japanese political, economic, and social development, cultural change, and major historical figures, from ancient times to 1600.|Prereq: jr st; completion of GER English Composition competency req.

395 History of Japan Since 1600. 3 cr. U/G. Japan's rise as modern nation-state and economic power; evolution of social, political, cultural institutions from establishment of Tokugawa shogunate through Meiji restoration to present.|Prereq: jr st; completion of GER English Composition competency req.

398 Honors Seminar: (Subtitled). 3H cr. U. Reading, discussion, and presentation of papers to help students acquire an understanding of important historical problems from a humanities perspective.|May be retaken w/chg in topic to

combined 9 cr max in Hist 398 & 399. Counts as repeat of History 270 & 404 w/similar topic. Prereq: soph st; Honors 200(P); cons Honors College dir.

399 Honors Seminar: (Subtitled). 3H cr. U. Readings, discussion, and presentation of papers to help students acquire an understanding of important historical problems from a social science perspective. | May be retaken w/chg in topic to combined 9 cr max in Hist 398 & 399. Prereq: soph st; Honors 200(P); cons Honors College dir.

400 Topics in Latin American and Caribbean History: (Subtitled). 3 cr. U/G. Selected themes and issues in the history of South America, Central America, and the Caribbean Islands. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; completion of GER English Composition competency req.

401 Topics in Middle Eastern History: (Subtitled). 3 cr. U/G. Selected themes and issues in Middle Eastern history. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; completion of GER English Composition competency req.

402 Topics in Asian History: (Subtitled). 3 cr. U/G. Selected themes and issues in the history of Asia. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; completion of GER English Composition competency req.

404 Topics in American History: (Subtitled). 3 cr. U/G. Selected themes and issues in the history of the United States. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; completion of GER English Composition competency req.

405 The Age of the American Revolution, 1750-1789. 3 cr. U/G. Background to revolution; British policy and American protest; political, social, diplomatic, and military phases of the War for Independence; Articles of Confederation; Constitution of 1787. | Prereq: jr st; satisfaction of GER English Composition competency req.

409 Causes of the Civil War, 1828-1861. 3 cr. U/G. Examination of the relationship between sectional conflict and political and social developments; the explanation of the causes and timing of the Civil War. | Prereq: jr st; satisfaction of GER English Composition competency req.

410 Civil War and Reconstruction: The United States, 1861-1877. 3 cr. U/G. The military conflict from Sumter to Appomattox; policies of Lincoln, Reconstruction and aftermath of slavery. | Prereq: jr st; satisfaction of GER English Composition competency req.

418 America in Prosperity, Depression and War, 1921-1945. 3 cr. U/G. The Twenties as a transition period; the Great Depression; Franklin D. Roosevelt and the New Deal; foreign policies and U.S. participation in World War II. | Prereq: jr st; satisfaction of GER English Composition competency req.

419 America Since 1945. 3 cr. U/G. Postwar America, including social and economic developments, Cold War rivalries, and the changing political scenes from the Truman years to the present. | Prereq: jr st; satisfaction of English Composition competency req.

420 The History of the American Presidency: A Biographical Approach. 3 cr. U/G. A biographical study of American presidents from Washington to Nixon; their backgrounds, leadership styles, successes, failures, and legacies. | Prereq: jr st; satisfaction of GER English Composition competency req.

430 American Constitutional Development, 1876 to the Present. 3 cr. U/G. Problems of government and the economy, civil rights and civil liberties in war and peace as reflected in controversies over meaning of the federal constitution. | Prereq: jr st; satisfaction of GER English composition competency req.

432 North American Environmental History. 3 cr. U. Past interactions between human societies and the natural world on the North American continent. | Prereq: jr st; satisfaction of GER English Composition competency req.

434 The United States as a World Power in the 20th Century. 3 cr. U/G. How the United States became involved in

two world wars and a cold war, while spreading its interests and influence across the globe.|Prereq: jr st; satisfaction of GER English Composition competency req.

435 Ethnic America: To 1880. 3 cr. U/G. Survey of the conflict between cultural diversity and the melting pot, included are theories about and experiences of ethnic groups in America, particularly the bad west.|Prereq: jr st; satisfaction of GER English composition competency req.

436 Immigrant America Since 1880. 3 cr. U. Survey of the conflict between the ideas of cultural diversity and assimilation, stressing the differing reception and settlement of white and non-white immigrants.|Prereq: jr st; satisfaction of English Composition competency req.

439 The Italian-American Experience in the United States. 3 cr. U/G. Italian-American cultural history, including the arts, religion, entertainment, family relationships and discrimination encountered; Italian-American experience in the context of the global diaspora.|Prereq: jr st; completion of GER English Composition competency req.

440 History of the American Working Classes. 3 cr. U/G. The social and occupational composition of the American working classes and their response to capitalism, socialism, and the organized labor movement.|Prereq: jr st; satisfaction of GER English Composition competency req.

445 African Americans from Slavery to Freedom. 3 cr. U/G. African-American history from shores of Africa through Atlantic slave trade to plantation slavery and formation of an African-American community in the New World.|Prereq: jr st; satisfaction of English Composition competency req.

446 African Americans Since the Civil War. 3 cr. U/G. The search for justice and equality, from emancipation in 1865 to the civil rights revolution of the 1960's and beyond.|Prereq: jr st; satisfaction of English Composition competency req.

448 Baseball in American History. 3 cr. U/G. The origins and development of baseball in the United States, its rise as a spectator sport, and its place in American life and culture.|Prereq: jr st; satisfaction of GER English Composition competency req.

449 Popular Culture in America, 1800 to the Present. 3 cr. U/G. Popular culture seen through artifacts and the mass media: popular music, newspapers, magazines, dime novels, film, comics, TV, radio, folk heroes, sports, and 'stars'.|Prereq: jr st; satisfaction of GER English Composition competency req.

450 Growth of Metropolitan Milwaukee. 3 cr. U/G. History of the city and county of Milwaukee and Milwaukee suburbs, emphasizing population patterns; government; economic change; social, cultural and educational institutions; and spatial relationships.|Prereq: jr st; satisfaction of GER English Composition competency req.

451 History of Wisconsin. 3 cr. U/G. Political, economic and social development of Wisconsin, especially since 1815, with attention to such major personalities as the La Follettes, Kohlers, Turner, Hoard, Wright, and Gale.|Prereq: jr st; satisfaction of GER English Composition competency req.

452 History of Religion in American Life to 1870. 3 cr. U/G. Development of different religions in America; role of religion in American society, politics; church attitudes on race and war; lives of religious leaders; theology.|Prereq: jr st; satisfaction of English Composition competency req.

453 History of Religion in American Life Since 1870. 3 cr. U/G. Development of different religions in America; role of religion in American society, politics; church attitudes on race and war; lives of religious leaders; theology.|Prereq: jr st; satisfaction of GER English Composition competency req.

455 American Science, Race, Ethnicity, and Gender: A Biographical Approach. 3 cr. U. Impact of race, ethnicity, and gender on American science and scientists. Focus on scientists of color, biography, biographical myths, and role models.|Prereq: jr st; satisfaction of GER English Composition competency req.

456 The Human Side of History: American Biographies. 3 cr. U/G. The study of American history through biography, emphasizing a variety of figures who represent major historical issues, ideas, and movements.|Prereq: jr st; satisfaction of GER English Composition competency req.

460 The History of Poverty in America. 3 cr. U/G. Social welfare policies and programs (including evolution of social work profession), 1620-present, in light of major developments in American social and intellectual history.|Prereq: jr st; satisfaction of GER English Composition competency req.

463 History of the American City. 3 cr. U/G. Character of American urbanization and its social and political consequences; responses to 'urban problems' from the early nineteenth century to the present.|Prereq: jr st; satisfaction of GER English Composition competency req.

468 The American Feminist Movement. 3 cr. U/G. History of the American feminist movement from colonial times to the present.|Prereq: jr st; satisfaction of GER English Composition competency req.

469 Manhood in America. 3 cr. U/G. A gendered exploration of the history of masculinity in the United States; how various styles and functions of manhood changed over time.|Counts as repeat of Hist 373 w/topic 'Manhood in America.' Prereq: jr st, satisfaction of GER English Composition competency req; or grad st.

473 History of Wisconsin Indians. 3 cr. U/G. History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.|AIS 473 & Hist 473 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of English Composition competency req.

474 Topics in North American Indian History: (Subtitled). 3 cr. U/G. Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.|May be retaken w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

475 American Indian History, Law, and Government. 3 cr. U/G. American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European Legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship.|No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

489 Internship in History, Upper Division. 1-6 cr. U. Application of advanced principles of history in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req; 300-level or above course in Hist; 2.50 gpa; writ cons supervising faculty member & dept chair.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before coursework level, content and credits are determined and/or in specially prepared program coursework.|May be retaken w/chg in topic. Prereq: jr st; satisfaction of English Composition competency req; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st; satisfaction of GER English Composition competency req; add'l prereqs may be assigned to specific topic.

594 Methods and Theory in the Historical Study of Religion: (Subtitled). 3 cr. U/G. Methods and historiography in the history of religion; focus on a particular religious-historical complex.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

595 The Quantitative Analysis of Historical Data. 3 cr. U/G. Statistical methods and the computer in analysis of

historical problems: statistics through regression; use of social science computer package; special techniques for handling historical data. Prereq: jr st; completion of Oral and Written Communication (OWC) Competency Part A & Quantitative Literacy (QL) Competency Part A GERs.

596 Maps as Historical Sources. 3 cr. U/G. Introduction to maps, both as historical artifacts and as instruments for reinterpreting historical realities. Prereq: jr st; completion of GER English Composition competency req.

597 Fields and Methods in Public History. 3 cr. U/G. Career opportunities for historians in historical agencies, focusing on the work and methods of archivists, museum curators, historic preservationists, oral historians, and administrators. Prereq: jr st; completion of GER English Composition competency req; cons coord of public hist.

600 Seminar in History: (Subtitled). 3 cr. U. In-depth investigation of a period or theme in history. Emphasis on designing and writing a research paper based on primary and secondary sources. May be retaken w/chg in topic with petition to department chair to 6 cr max. Prereq: sr st; satisfaction of GER English Composition & Math Skills competency reqs; Hist 288(P), 291(P), 293(P), 294(P), 594(P), 595(P), or 596(P); declared Hist major or Educ/Soc Studies-Broad Field Hist major.

681 Senior Thesis I. 3 cr. U. Senior research project for history majors. Prereq: sr st, satisfaction of GER English Composition competency req; Hist 288(P), 291(P), 293(P), 294(P), 594(P), 595(P), or 596(P); cons faculty thesis advisor & dept chair.

682 Senior Thesis II. 3 cr. U. Senior research project for history majors. Prereq: Hist 681(P); satisfaction of GER English Composition competency req.

699 Independent Reading: 1-6 cr. U. Advanced independent work under the supervision of a history faculty member. Students must submit study proposal. For more information, consult dept chair, www4.uwm.edu/letschi/history/undergrad/internships.cfm. May be retaken w/chg in topic. Prereq: jr st; satisfaction of GER English Composition competency req; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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HONORS Honors College

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200 Honors Seminar: The Shaping of the Modern Mind: (Subtitled). 3H cr. U. Introduction to honors work through seminar study of basic texts and problems in the development of modern civilization. |Not open to students w/cr in Honors courses at 300-level or above. Retakable once w/chg in topic. Students may not elect cr/no cr option. Prereq: grade of B- or better in English 102(P) or score at level 4 on EPT; cons Honors College dir.

297 Study Abroad: (Subtitled). 1H-9H cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog & cons Honors College dir.

299 Ad Hoc: (Subtitled). 1H-6H cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

310 Introduction to Clinical Medicine for Premedical Students. 1H cr. U. Through both lecture/discussion and experience, students will explore various components of the medical profession in a clinical setting. |Prereq: soph st; Bio Sci 150 or Chem 102; cons both Honors College dir & premedical advisor, L&S.

350 (680) Honors Seminar in the Humanities: (Subtitled). 3H cr. U. Seminar on interdisciplinary topics or on the broader implications of a faculty member's research. |Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted. Prereq: soph st; Honors 200(P); cons Honors College dir.

351 (683) University Honors Seminar in the Social Sciences: (Subtitled). 3H cr. U. Seminar on inter-disciplinary topics or on the broader implications of a faculty member's research. |Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted. Prereq: soph st; Honors 200 (P); cons Honors College Dir.

352 (682) Honors Seminar in the Natural Sciences: (Subtitled). 3H cr. U. Seminar on interdisciplinary topics or on the broader implications of a faculty member's research. |Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted. Prereq: soph st; Honors 200(P); cons Honors College dir.

380 Honors Seminar in the Arts: (Subtitled). 3H cr. U. Selected topics in the theory and practice of creative and expressive arts. Taught by practicing artists. |Retakable once w/chg in topic. Prereq: soph st; Honors 200(P); cons Honors College dir.

497 Study Abroad: (Subtitled). 1H-9H cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog; cons Honors College dir.

499 Ad Hoc: 1H-6H cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

685 Honors Tutorial. 1H-3H cr. U. Advanced study in interdisciplinary topics. |Retakable to max of 6 cr. Prereq: jr st in Honors College, cons instr & Honors College dir.

686 Research in Honors. 3H or 6H cr. U. Student assists with a faculty member's current research, then designs and completes original major research paper under the faculty member's supervision. |Retakable once to 6H cr max. Prereq: jr st in Honors College, 9 cr in Honors, cons instr & Honors College dir.

687 Senior Honors Project. 3H-6H cr. U. Performance, exhibit, musical composition, or technical/professional project completed under supervision of faculty member. For students in majors in which a thesis is not appropriate. |Not open for cr or enroll to students with Honors 689(ER). Retakable once to 6H cr max. Prereq: sr st in Honors College, cons instr & Honors College dir.

689 Senior Honors Thesis. 3H-6H cr. U. Independent research project under faculty supervision. Honors with Distinction awarded for successful completion of thesis. |Not open for cr or enroll to students with Honors 687(ER). Retakable once to 6H cr max. Prereq: sr st in Honors College; cons instr & Honors College dir.

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KIN Kinesiology

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190 Topics Course in Physical Activity: 1-3 cr. U. Introductory level topics of current interest in health and physical activity. Special course fees may be required depending on topic. |Counts as repeat of Spt&Rec 290 & Kin 290 with same topic. May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

200 Introduction to Kinesiology. 3 cr. U. Introduction to the discipline of kinesiology and its subdisciplines of exercise physiology, motor behavior, biomechanics, and psychology and sociology of physical activity. |Prereq: none.

201 Field Experience in Kinesiology. 1 cr. U. Lecture/discussion/site visitation exploring the broad field of Kinesiology and typical service delivery systems, e.g., campus, community, commercial, industrial and clinical. |Counts as repeat of Kin 210. Prereq: Kin 202(C).

202 Field Work in Kinesiology. 1 cr. U. Practical, supervised, service-learning in the field of kinesiology. |Counts as repeat of Kin 210. Prereq: Kin 201(C).

211 First Aid and Cardiopulmonary Resuscitation. 1 cr. U. CPR for adults, children, and infants; AED; and First Aid. |Prereq: none.

212 Fieldwork in Athletic Training. 1 cr. U. On-site observation of the athletic training profession. Students will rotate through different on-campus sites. |Prereq: Kin 310(C).

216 Organization and Administration of Athletic Training. 3 cr. U. Delivery of athletic training services in various settings. Topics include program, personnel, information management, budgeting, documentation, insurance, legal considerations and current topics. |Prereq: admitted to athletic training maj; Kin 316(P); Kin 410(C) & Kin 416(C); or cons instr.

230 Health Aspects of Exercise and Nutrition. 3 cr. U. Examines physical fitness and proper nutrition as lifestyle choices in maintaining optimal health and minimizing health risks. |Not open to students with credit in Kin 330, 530, 532, or 536. Prereq: none.

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity. |BMS/ComSDis/HCA/Kin/OccThpy/TherRec 245 are jointly offered;

they count as repeats of one another. Prereq: soph st or cons instr.

255 Women in Sport and Physical Activity. 3 cr. U. Introduction theory and research on female participation in sport and physical activity. Prereq: soph st or cons instr.

270 Statistics in the Health Professions: Theory and Practice. 3 cr. U. Overview of statistical theory and practical application for health professionals. Includes problem solving strategies, descriptive and inferential techniques, and critical evaluation of research design. Prereq: Math Placement Level 30 or a C grade or better in Math 105(P).

289 Seminar in Athletic Training. 0 cr. U. Exposure to peer presentations, guest lectures on current topics, current literature updates/discussion, and program information updates. Must be taken by student in the ATEP each sem of prog. Fee for 1 cr assessed. Prereq: acceptance into Athletic Training prog.

290 Special Topics in Human Movement Sciences: (Subtitled). 1-3 cr. U. Topics of current interest in kinesiology, health, and fitness. Special course fees may be required depending on course. May be retaken w/chg in topic. Prereq: specified in semester Schedule whenever required for a topic.

296 UROP Research Study: (Subtitled). 1-3 cr. U. Undergraduate research participation in a project developed with a supervising faculty member. One credit for 45 hours research. May be retaken to 9 cr max in any combination of UROP Research Study courses. Prereq: Acceptance to UROP prior or conc reg in UROP sem; cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specifically prepared program course work. May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

298 Independent Projects. 1-3 cr. U. Designed for individual and small group research projects under faculty supervision. Prereq: writ cons instr.

299 Independent Reading. 1-3 cr. U. Designed for individual and small groups in special study. Meetings/nature of study to be arranged with staff/faculty chosen to supervise. Prereq: cons instr.

300 (488) (effective 09/02/2018) Professional Preparation Seminar. 1 cr. U. Seminar lecture/discussion to prepare students for internships and other professional opportunities. Topics include goal setting, resume-writing, site selection, interviewing techniques, and professional development. Prereq: admis to Kin major or cons instr.

301 Field Experience in Kinesiology - I. 1 cr. U. Science and methods of exercise instruction for leading groups. Counts as repeat of Kin 290 w/same topic. Prereq: admis to Kin major.

302 Field Experience in Kinesiology - II. 1 cr. U. Science and methods of exercise instruction for coaching and training individuals. Prereq: admis to Kin major.

303 Field Experience in Kinesiology - III. 1 cr. U. Continued exposure to hands-on aspect of the field; prepare students for intership and develop advanced professional skills and conduct. Prereq: Kin 302(P); & Kin 325(P), 336(C), 430(C) or cons instr.

310 Responding to Emergencies. 1 cr. U. Focus on the development of skills necessary for professionals to act as 'first responders' in providing emergency medical care. Credit/No Credit only. Prereq: Kin 212(C).

311 CPR/AED Recertification. 1 cr. U. CPR/AED recertification and review of basic First Aid. Prereq: Kin 211 or CPR & standard first aid certification.

312 Introduction to Prevention, Recognition, and Treatment of Athletic Injuries. 3 cr. U. Introduction to athletic training principles and techniques necessary for the prevention, recognition, care, and rehabilitation of athletic injuries. Prereq: enrolled in ATEP Program, Kin 310(P); or cons instr.

314 Recognition and Evaluation of Injuries: Lower Extremity. 3 cr. U. Techniques/knowledge necessary to perform examination, treatment, prevention, and rehabilitation of sport-related injuries and illnesses of the lower extremity and associated areas.|Prereq: admis to athletic training major; Kin 413(C), & 416(C); or cons instr.

315 Recognition and Evaluation of Injuries: Upper Extremity. 3 cr. U. Techniques/knowledge necessary to perform examination, treatment, prevention, and rehabilitation of sport-related injuries and illnesses of the upper extremity and associated areas.|Prereq: admis to athletic training major; Kin 413(P), & 416(C); or cons instr.

316 Recognition and Evaluation of Athletic Injuries: Head, Neck, and Trunk. 3 cr. U. Techniques/knowledge necessary to perform examination, treatment, prevention, and rehabilitation of sport-related injuries and illnesses of the head, neck, and torso.|Prereq: admis to athletic training major; Kin 315(P), 414(C) & 416(C); or cons instr.

320 Biomechanics. 3 cr. U. Application of physical laws and mechanical principles to human movement.|Not open to students w/cr in Kin 520. Prereq: admis to Kin major; or admis to Kin minor and Bio Sci 202(P) & Physics 120(P) with a C or greater; or cons instr.

325 Anatomical Kinesiology. 3 cr. U. Anatomical analysis of the human body including joint actions, anatomical, muscular, and neuromuscular control aspects necessary for movement.|Prereq: admis to Kin major, Ath Trng major or OT prog. Bio Sci 202(P) & 203(C) or cons instr.

330 Exercise Physiology. 4 cr. U. Study of the physiological responses to exercise and the adaptations to physical training.|Not open to students with cr in Kin 530, 532, or 536. Prereq: admis to Kin major; or admis to Kin minor & Bio Sci 203(P) & Chem 100(P), 102(P), or 104(P) with grade of C or greater; or cons instr.

336 Principles of Strength and Conditioning. 3 cr. U. Basic principles necessary to understand the effects of exercise and conditioning on human physiology. Exercise techniques and measures used to assess performance outcome.|Counts as repeat of Kin 335 & 337. Prereq: Kin 325(P), 330(P); or cons instr.

350 Psychological Aspects of Sport and Exercise. 3 cr. U. Examines relationships between psychological function and participation in sport and exercise. Topics include motivation, stress, group dynamics, and performance enhancement.|Not open to students with credit in Kin 550, 551, or 552. Prereq: Psych 101(P); satisfaction of GER Quant Lit Part B or cons instr.

351 Sociological Aspects of Health and Human Movement. 3 cr. U. Introduction to sociology of physical activity. Examination of diversity and social inequality as they relate to health and physical activity.|Not open to students with credit in Kin 570. Prereq: Sociol 101(P); satisfaction of GER Quant Lit Part B or cons instr.

360 (460) (effective 09/04/2018) Motor Development Across the Lifespan. 3 cr. U. Introduction to gross motor behavior development through the lifespan (neo-natal to senior adult). Growth, maturation, environmental influences, and developmental theories.|Prereq: admis to Kin major; or admis to Kin minor; or cons instr.

361 (461) (effective 09/04/2018) Principles of Motor Learning. 3 cr. U. An overview of the principles of motor skill acquisition emphasizing variables related to the learner and the learning environment.|Not open to students with cr in Kin 561. Prereq: admis to Kin major; or admis Kin minor and Bio Sci 202(P) with a C or greater; or cons instr.

365 Health Aspects of Mind and Body Practices. 3 cr. U. Exploration of the scientific research available on the effectiveness of common mind and body practices and the mechanisms through which these practices affect health.|Prereq: Kin 260(P) or BMS 260(P) or equiv.

368 Study of Intervention Strategies in Complementary and Alternative Medicine. 3 cr. U. Examination of the efficacy of commonly used strategies and therapies considered to be Complementary and Alternative Medicine.|Prereq: BMS 260(P) or Kin 260(P); 365(R).

400 Ethics and Values in the Health and Fitness Professions. 3 cr. U. Exploration of morality and ethics and their importance in the allied health professions.|Prereq: none.

410 Medical Aspects of Illness Management. 3 cr. U. Knowledge and techniques used in identification and management of common medical conditions and illnesses in physically active populations.|Prereq: admis to Athletic Training major; Kin 316(P), 216(C), & 416(C), or cons instr.

412 Foundations of Injury Prevention & Performance. 3 cr. U. The foundational knowledge, skills, and science that inform injury prevention, rehabilitation, and performance in sport and physical activity.|Counts as repeat of Kin(HMS) 290 w/same topic. Prereq: Admis to athletic training prog; Kin 315(P), 320(P), & 416(C); or cons instr.

413 Therapeutic Modalities in Athletic Training. 3 cr. U. Introduction to tissue healing, pain control, indications, contraindications, protocols, and the body's responses to various therapeutic modalities.|Prereq: admis to athletic training major; Kin 314(C), & 416(C); or cons instr.

414 Therapeutic Exercise and Rehabilitation Techniques in Athletic Training. 3 cr. U. Introduction to the theory and practical aspects of therapeutic exercise and rehabilitation techniques used in the care of musculo-skeletal injuries.|Prereq: admis to athletic training prog; Kin 412(P) & 416(C); or cons instr.

416 Competencies in Athletic Training. 2 cr. U. Practice, testing, and practical field application of educational competencies and clinical proficiencies in athletic training.|May be retaken to 10 cr max. Prereq: acceptance into student Athletic Training prog.

430 Exercise Testing for Fitness Assessment and Exercise Prescription. 3 cr. U. Methods for assessing physical fitness in various populations, guidelines for graded exercise testing and exercise prescription. integrates lecture material with laboratory experience.|Prereq: Kin 330(P) or cons instr; current CPR/AED cert.

460 Motor Development Across the Lifespan. 3 cr. U. Introduction to gross motor behavior development through the lifespan (neo-natal to senior adult). Growth, maturation, environmental influences, and developmental theories.|Prereq: admis to Kin major; or admis to Kin minor; or cons instr.

461 Principles of Motor Learning. 3 cr. U. An overview of the principles of motor skill acquisition emphasizing variables related to the learner and the learning environment.|Not open to students with cr in Kin 561. Prereq: admis to Kin major; or admis Kin minor and Bio Sci 202(P) with a C or greater; or cons instr.

480 Organization and Administration in the Exercise and Fitness Industry. 3 cr. U. Study of the delivery of exercise services in relationship to organization and administration of programs with emphasis on promotions, budget, supervision, equipment and facilities.|Prereq: admis to Kin major; or Kin minor; or cons instr.

481 Program Development and Evaluation in the Exercise and Fitness Industry. 3 cr. U. Study of systematic program design and evaluation including systems approach, evaluation models, problem solving by objectives, management by objectives and accountability.|Prereq: Kin 330(P), 350(P), 351(P); or cons instr. Preference is given to students in the Health Promotion track.

482 Innovative Approaches to Health and Wellness Coaching. 3 cr. U. Study of health and wellness coaching theory and practice related to health behavior change.|Counts as repeat of KIN 590 with same topic. Prereq: sr standing or cons instr.

488 Professional Preparation Seminar. 1 cr. U. Seminar lecture/discussion to prepare students for internships and other professional opportunities. Topics include goal setting, resume-writing, site selection, interviewing techniques, and professional development.|Prereq: sr st; admis to Kin major; or cons instr.

489 (effective 09/02/2018) Kinesiology Internship and Seminar. 3-14 cr. U. Supervisory/clinical/research assignment in approved field instruction setting; seminar to monitor and assist with professional progress.|May be retaken to max of

14 cr. Not open for cr to students with cr in Spt&Rec 489(ER). Prereq: Kin 303(P) and all undergrad coursework completed; or cons instr. See internship eligibility criteria in the Kinesiology section of the undergraduate catalog.

489 Kinesiology Internship and Seminar. 3-14 cr. U. Supervisory/clinical/research assignment in approved field instruction setting; seminar to monitor and assist with professional progress.|May be retaken to max of 14 cr. Not open for cr to students with cr in Spt&Rec 489(ER). Prereq: sr st, Kin(HMS) 488(P), all undergrad coursework completed; or cons instr.

497 Study Abroad: 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

520 Neuromechanics Research Methods. 3 cr. U/G. Introduction to biomechanics and motor behavior experimental methods and instrumentation. Emphasis on understanding the research literature and research process, from study design to data analysis.|Prereq: jr st; grade of C or better in Kin 320(P), Math 117(P), Physics 110(R) or 120(R); or grad st or cons instr.

520 (effective 05/21/2018) Neuromechanics Research Methods. 3 cr. U/G. Introduction to biomechanics and motor behavior experimental methods and instrumentation. Emphasis on understanding the research literature and research process, from study design to data analysis.|Prereq: jr st; grade of C or better in Kin 320(P), Math 117(P), Physics 110(R) or 120(R); or grad st or cons instr.

522 Qualitative Analysis of Human Movement. 3 cr. U/G. Exploration of systematic qualitative analysis of human movement focusing on detecting and correcting faults in technique.|Counts as repeat of Kin(HMS) 590 with same title. Prereq: jr st; grade of C or better in Kin 320(P); or grad st or cons instr.

525 Human Gross Anatomy. 6 cr. U/G. A comprehensive consideration of the human anatomy including both neuro-musculoskeletal components and internal organ systems.|Prereq: grad st; good standing in DPT prog or cons instr

526 Introduction to Physical Therapy Practice and Examination Techniques. 3 cr. U/G. Students will learn roles, professional behavior expectations, and patient examination techniques.|Prereq: grad st; good standing in DPT prog or cons instr

527 Kinesiology & Biomechanics of Normal & Abnormal Movement. 4 cr. U/G. Principles & theories of the biomechanics of human motion presented to develop analytical skills to assess normal & abnormal movement.|Prereq: DPT student in good standing or grad st & cons instr; grad level Human Gross Anatomy w/lab, 8 cr undergrad Physics.

530 Advanced Exercise Physiology. 3 cr. U/G. Advanced study of the physiological responses to exercise and the adaptations to physical training.|Prereq: jr st; grade of C or better in Kin 330(P); Kinesiology major or intended major; or grad st.

532 Electrocardiography Interpretation. 3 cr. U/G. In depth study of the 12 lead EKG and selected cardiovascular medications encountered in preventative and rehabilitative exercise programs.|Counts as repeat of Kin 590(HMS 590) with similar title. Prereq: jr st; grade of C or better in Kin 330(P); 430(R); or grad st or cons instr.

540 Introduction to Physical Therapy Practice. 2 cr. U/G. The multiple roles of the physical therapist as a professional.|Prereq: grad st; good standing in DPT prog or cons instr

541 Clinical Foundations of the Physical Therapy Examination. 5 cr. U/G. Instruction in the techniques of examining patients/clients.|Prereq: grad st; good standing in DPT prog

550 Psychological Aspects of Human Movement. 3 cr. U/G. Study of the relationships between psychological factors and human physical activity. Introduction to research relevant to sport and exercise psychology.|Prereq: jr st; must have obtained a grade of C or better in Kin 350(P) or cons instr.

551 Psychology of Injury/Illness/Disease: Implications/Strategies for Rehab. 3 cr. U/G. Explores the psychological aspects of health enhancement, disease prevention, and rehabilitation as well as the integration of behavioral and biomedical sciences in treating illness. |May be used by undergrads to repeat Kin 590 with same title. Prereq: Psych 101(P).

552 Psychology of Personal Excellence. 3 cr. U/G. Research on elite athletes, performing artists, and corporate executives is used to discuss characteristics of peak performance and identify strategies to facilitate personal excellence. |Counts as repeat of Kin 590 w/same topic. Prereq: jr st, grade of C or better in Kin 350(P); or grad st or cons instr.

553 Medical Physiology. 4 cr. U/G. Physiological principles related to rehabilitation in physical therapy practice setting and interaction of physiological systems during normal activities and after injury or disease. |Prereq: grad st; good standing in DPT prog or cons instr

555 Exercise Psychology. 3 cr. U/G. Psychological antecedents and consequences of physical activity in relation to mental health and public health. |Counts as repeat of Kin 590 with same topic. Prereq: jr st; Grade C or better in Kin 350(P) or cons instr.

556 Multilevel Approaches to Changing Physical Activity and Eating Behaviors. 3 cr. U/G. An introduction to key theoretical and conceptual frameworks for understanding health-related behavior and evidence-based practical approaches for promoting behavior change. |Counts as repeat of Kin 590 w/same topic. Prereq: Admis to Kin major or Ath Trng major or Nutr major; Grade C or better in Kin 350(P); or grad st or cons instr.

561 Neuromechanics of Voluntary Movement. 3 cr. U/G. An introduction to the major theoretical and empirical perspectives used to examine how the nervous system and musculoskeletal system work cooperatively to produce human movement. |Prereq: jr st; a grade of C or better in Kin 461(P) or cons instr.

566 Functional Neuroanatomy. 3 cr. U/G. The anatomical basis of neuroscience in physical therapy. |Prereq: grad st; good standing in DPT prog or cons instr

570 Sociological Aspects of Physical Activity. 3 cr. U/G. Relationships between sociological factors and human physical activity. Introduction to research relevant to the sociology of sport and other forms of physical activity. |Prereq: jr st; must have obtained a grade of C or better in Kin(P) or cons instr.

573 Body Image: Influences and Health-Related Implications. 3 cr. U/G. In-depth examination of the multidimensional body image construct: body image development, assessment, and modification; impact on health and behavior; body image in special populations. |Counts as repeat of Kin 590 with same topic. Prereq: jr st; Psych 101(P).

574 Obesity and Weight Management. 3 cr. U/G. Examination of the epidemiology of obesity, genetic and environmental contributors, body weight regulation, health and psychosocial consequences, and approaches to assessment, prevention, and treatment. |Counts as repeat of Kin 590 with same topic. Prereq: jr st; grade of C or better in BMS 232(P) or Nutr 235(P).

575 The Social Construction of Obesity. 3 cr. U/G. Examines how obesity is socially constructed and how it shapes conceptions of fitness and physical activity. |Counts as repeat of HMS 590 with same topic. Prereq: jr st; grade of C or better in Kin 351(P); or cons instr.

590 Current Topics in Human Kinetics: (Subtitled). 1-3 cr. U/G. The specific topic will be announced in the Schedule of Classes each time the course is offered. |May be retaken to max of 9 cr. Prereq: jr st, cons instr for grad cr.

635 Pathophysiology. 2 cr. U/G. The general inflammatory and specific pathologies of the various organ systems. |Prereq: grad st; good standing in DPT prog or cons instr

640 Scientific Principles of Interventions. 5 cr. U/G. The basic therapeutic interventions used to treat impairments and functional limitations in the different biological systems that lead to movement dysfunction. | Prereq: grad st; good standing in DPT prog; graduate level Human Gross Anatomy course with lab; Anatomy/physiology, physics, 8 cr each with labs.

641 Cardiopulmonary Evaluation & Treatment. 3 cr. U/G. The normal and abnormal structure and function of the cardiovascular, pulmonary and lymphatic systems with emphasis on medical and other therapeutic strategies. | Prereq: grad st; good standing in DPT prog or cons instr

642 Professionalism and Ethos of Care. 3 cr. U/G. The ethics of professional practice, fiduciary relationships, rights, duties associated with the patient/therapist relationship, and the role character plays in ethical decision-making. | Prereq: grad st; good standing in DPT prog

680 Clinical Fieldwork I. 1 cr. U/G. The student will be assigned to a clinically based learning experience with an emphasis on practicing recently learned clinical skills on a patient population. | Prereq: grad st; good standing in DPT prog or cons instr

699 Physical Therapy Clinical Internship Elective. 1-3 cr. U/G. Clinical experience with practice skill acquisition, decision making, and ethical professional behaviors consistent with ethical and legal PT practice. | Contact hours determined by instructor to include clinical facility work as well as any needed didactic instruction. May not be retaken for cr. Prereq: DPT student in good st & cons instr.

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IND ENG Industrial/Manufacturing Engr

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111 Introduction to Engineering. 3 cr. U. Introduction to Engineering Disciplines, problem solving methods, teamwork, technical communication, professionalism, and ethics.|Counts as repeat of Ind Eng 210. Prereq: Math 116(C).

112 Engineering Drawing & Computer Aided Design/Drafting. 3 cr. U. Visualization, Engineering Drawing, CAD, Geographic Information Systems (GIS), Group Project, Team Work.|Counts as repeat of of Ind Eng 101. Prereq: Math 116(P).

299 Independent Reading and Work. 1-3 cr. U. Credit hours to be arranged between student and staff on an individual basis.|Prereq: cons instr.

350 Manufacturing Processes. 3 cr. U. Broad study of processes and equipment used in modern production. Design considerations, economic factors, automation, metals and plastics processing, fabrication of electronic materials.|Prereq: MatlEng 201(P).

360 Engineering Economic Analysis. 3 cr. U. Concept of time value of money. Economical evaluation of alternate projects and replacement policies using methods such as present worth, rate of return, and annual cost. Engineering investment decision analysis.|Prereq: jr st.

367 (467) Introductory Statistics for Physical Sciences and Engineering Students. 3 cr. U. Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing; parameter estimation; regression analysis.|Prereq: B- or better in Math 211(P) or B- or better in Math 213(P) or C or better in Math 221(P) or C or better in Math 231(P)

370 Introduction to Operations Analysis. 3 cr. U. Functions and philosophies of the contemporary engineer in the production/service environment as it is planned, designed, manufactured/delivered, maintained, controlled and distributed.|Prereq: Math 233(P)

390 Senior Thesis. 1-3 cr. U. Independent research under the direction of a faculty member; submission of a written thesis is required.|3 cr total required. Need not all be taken during the same semester. Prereq: sr st & cons instr.

405 Product Realization. 3 cr. U/G. This interdisciplinary course (engineering and art students) considers the diverse

aspects of the product realization process. | Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Counts as repeat of Art 402/Ind Eng 590/MechEng 490 with same topic. Prereq: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.

455 Operations Research I. 3 cr. U/G. Fundamental optimization methods; linear programming, integer programming, network models, and dynamic programming methods of operations research. Modeling and applications of these methods in practical situations. | Prereq: jr st; Math 233(P).

465 Operations Research II. 3 cr. U/G. Concepts and methods of probabilistic modeling in queueing, forecasting, and inventory problems for design and analysis of manufacturing and service operations. | Prereq: jr st; Ind Eng 467(P) or MthStat 467(P) or equiv course in statistics.

470 Methods Engineering. 3 cr. U/G. Use of production machine for producing a simple product. Study of production sequence, material flow, plant layout; time and motion; and the economics of materials and methods of fabrication. Redesign of the product and the methods of production to minimize total costs within physical, social and aesthetic constraints. | Prereq: jr st; Ind Eng 467(P).

475 Simulation Methodology. 3 cr. U/G. Fundamentals of discrete simulation. Random number and random variable generation for simulation modeling and analysis using simulation software. | Prereq: Ind Eng 467(P), CompSci 201(C).

485 Senior Design Project. 3 cr. U. Capstone design projects involving design of a production/service system. Progress reports, final report, and presentation. | Prereq: sr st, Ind Eng 370(P), 455(P), 465(C), 470(C), 475(P), 571(C), 580(C), 583(C).

499 Ad Hoc: (Subtitled). 1-12 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

550 Control of Automated Manufacturing Systems. 3 cr. U/G. Theoretical and practical skills to design and control automated manufacturing systems and industrial processes through science-based theoretical advancements and state-of-the-art industrial applications. | Prereq: jr st; ElecEng 234(P); 301(P).

571 Quality Control. 3 cr. U/G. Statistical process quality design and control. Process control charts, six sigma and process capability assessment. | Prereq: jr st & Ind Eng 467(P) or equiv course in statistics; or grad st.

572 Reliability Engineering. 3 cr. U/G. Concepts and methods for the design, testing, and estimation of component and system reliabilities. Failures and failure rates; life tests; series-parallel, and standby systems; stress levels; redundancy and reliability apportionment; maintainability, availability, and safety; reliability design and implementation. | Prereq: jr st; Ind Eng 467(P) or equiv.

575 Design of Experiments. 3 cr. U/G. Statistical principles, designs and analyses for planned experimentation; factorial and fractional factorial designs, inner-outer designs, robustness, confounding and blocking, and response surface methodology. | Prereq: Ind Eng 467(P) or equiv.

577 Dimensional Measurement and Tolerancing. 3 cr. U/G. Measurement techniques; implementation and integration of precision measuring equipment and gages in manufacturing systems; geometric dimensioning and tolerancing; and devices for statistical process control. | Prereq: sr st & Ind Eng 467(P).

580 Ergonomics. 3 cr. U/G. Broad study of ergonomics principles and stresses in design and analysis of workplaces and physical environment; 2 hrs lec & 2 hrs lab/week. | Prereq: jr st.

582 Ergonomic Job Evaluation Techniques. 3 cr. U/G. Review of popular, contemporary methods of job evaluation for risk of low back pain and distal upper extremity. | Prereq: sr st & Ind Eng 580(P).

583 Facility Layout and Material Handling. 3 cr. U/G. Basics in facility planning; design and integration of plant layout, material handling, and warehousing; quantitative models for facility location problems. | Prereq: sr st, Ind Eng 370(P), Ind Eng 455(C)

584 Biodynamics of Human Motion. 3 cr. U/G. Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab. | Prereq: jr st; ElecEng 234(P); Civ Eng202(C).

587 Lean Production Systems. 3 cr. U/G. An integrated approach to efficient manufacturing of products with high quality, low cost, and timely delivery including one-piece flow, pull system, and visual factory. | Prereq: Ind Eng 350(P).

590 Topics in Industrial and Systems Engineering: (Subtitled). 1-3 cr. U/G. Selected topics of current interest in an area of systems design. | May be retaken w/chg in topic to max of 9 cr. Prereq: sr st.

699 Independent Study. 1-3 cr. U/G. | Limited to max of 6 cr applied toward undergraduate degree. Prereq: jr st; cons instr.

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INTLST International Studies

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193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

250 Introduction to Study Abroad. 2 cr. U. Discussion of study abroad programs by addressing objectives, cross-cultural communication; specific programs and pre-departure information. |No degree cr for students with cr in IntlSt 350 'Studying in the World's Regions'(ER). Cr/no cr only; audit not permitted. Prereq: none.

260 Introduction to International Careers. 2 cr. U. Introduction to a wide variety of career options in area of international studies, partly through lectures with academics and professionals from relevant fields. |No degree cr for students with cr in IntlSt 350 'Careers in the World's Regions'(ER). Cr/no cr only; audit not permitted. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in a UWM sponsored program before course level, content, and credits are determined and/or in a specially prepared program course. Section title(s) and credits announced whenever course is offered. |Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

450 Internship in International Studies. 2-6 cr. U. Internship offering on the job experience to selected majors in international studies. Student enrolls for a specific number of credits. |Retakable to 6 cr max. Cr/no cr only; audit not permitted. Prereq: jr or sr st; gpa of 3.0; writ cons prog coord.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Applied Foreign Language. 1 cr. U. Independent reading in a foreign language as companion to courses in international studies. To be arranged with International Studies coordinator. |Retakable to 6 cr max. Prereq: 2 yrs college-level work in a foreign language or equiv; cons IntlSt coord.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

550 Senior Seminar in International Studies: (Subtitled). 3 cr. U/G. Interdisciplinary seminar with emphasis on functional/regional problems in world affairs. Retakable w/chg in topic to 9 cr max. Prereq: declared Intl Stds major or minor, or cons instr or prog coord.

699 Independent Study. 1-6 cr. U. Advanced independent work under the supervision of an IntlSt faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult prog coord or advisor. Retakable w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, prog coord, & asst dean for SAS.

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ITALIAN Italian

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20 Great Italians: 1 cr. U. An introduction to the life and works of a major figure in Italian cultural history. |May be retaken w/chg in topic to 3 cr max. Prereq: none.

103 First-Semester Italian. 4 cr. U. Introductory course for students who have not studied Italian previously. Oral practice, grammar, reading. |Students are required to spend an additional hr each week in the language lab in oral drill & comprehension. Counts as repeat of Italian 113. Prereq: none.

104 Second-Semester Italian. 4 cr. U. Continuation of Italian 103. Expands oral, written, and reading skills. |Counts as repeat of Italian 114. Prereq: Italian 103(P), 113(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

110 Italian for Travelers. 2 cr. U. Basic conversational Italian for travelers. For students with no knowledge of Italian as well as for those with a basic foundation in the language. |Prereq: none.

112 Italian Language and Culture for Professional Communication. 4 cr. U. Basic conversational Italian and discussions in English of contemporary culture; for those doing business in Italy. |Prereq: none.

145 Views of Italy: (Subtitled). 3 cr. U. Variable content, with specific topics focusing on the interrelation of literary works and sociocultural values and traditions of Italy. |May be retaken w/chg in topic. Prereq: none.

155 Masterpieces of Italian Literature in Translation. 3 cr. U. Major works of different periods and genres. Introduction to the critical reading of literary texts. |Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. |May be retaken to 6 cr max. Prereq: 2.5

gpa; writ cons instr, dept chair & asst dean for SAS.

203 Third-Semester Italian. 3 cr. U. Development of reading, writing, and oral skills; review and further study of grammar. |Prereq: Italian 104(P), 114(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

204 Fourth-Semester Italian. 3 cr. U. Continuation of Italian 203. |Prereq: Italian 203(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. |Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, German 213, Linguis 213, Polish 213, Russian 213, & Spanish 213. Prereq: none.

215 Italian Conversation. 3 cr. U. Development of ability to speak and write Italian, with emphasis on everyday speech. |Should be taken conc with Italian 203 or 204. May be retaken to 6 cr max. Prereq: Italian 104(P) or 114(P) or placement.

229 Italian Cinema. 3 cr. U. Historical and stylistic study of film as an expression of the contemporary culture of Italy. |Prereq: none.

242 Topics in Italian American Studies: (Subtitled). 3 cr. U. Interdisciplinary study of aspects of Italian American ethnicity, history, and culture. |May be retaken w/chg in topic to 6 cr max. Prereq: none.

243 Topics in Italian American Film: 3 cr. U. Study of selected topics in Italian American film. |May be retaken w/chg in topic to 6 cr max. Prereq: none.

245 Italian Fictions: (Subtitled). 3 cr. U. Literary themes, types, or figures as they appear throughout Italian literature. |May be retaken w/chg in topic to 9 cr max. Prereq: none.

256 Introduction to Italian Food Studies: A Cultural History. 3 cr. U. Interdisciplinary study of Italian cooking and cuisine in fiction and non-fiction works from the Etruscan and Roman times to the present. |Taught in English. Prereq: none.

258 Contemporary Italian Society and Culture. 3 cr. U. Interdisciplinary study, using audio-visual materials, of social, economic, and cultural features shaping Italy today. |In English; reading & papers in Italian required of majors (option A). Prereq: soph st.

277 Italian Discussion Section: 1 or 2 cr. U. Discussion in Italian, designed to broaden perspectives, improve language skills. |Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max. Prereq: Italian 204(P) or cons instr.

289 Internship in Italian, Lower Division. 1-6 cr. U. Application of basic principles of Italian in a business, organizational, educational, political, or other appropriate setting. |Each cr earned for academic work based on 40 hrs internship. May be retaken to 6 cr max. Prereq Italian 104(P) or 114(P); 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-9 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One cr for 45 hrs of research. |May be retaken to 9 cr max in any combination of UROP Apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires

only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

310 Italian Immersion. 1 cr. U. Concentrated, structured practice of spoken Italian on varied contemporary topics; small-group setting with native speakers, simulating immersion experience. Improve communication skills, build vocabulary. May be offered in short-term sessions. | May be retaken to 6 cr max. Prereq: Italian 203(P) or cons instr.

311 Advanced Conversation and Composition: Contemporary Italian Usage. 3 cr. U. Development of advanced speaking, writing, and reading skills. Films and readings emphasize twentieth century Italy. Focus varies each semester. | May be retaken to 6 cr max. Prereq: Italian 204(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

312 Contemporary Italian Language and Culture. 3 cr. U. Contemporary culture through Italian readings, film, world wide web, and refinement of advanced conversation and composition skills. Themes vary each semester. | May be retaken to 6 cr max. Prereq: Italian 204(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 cr).

313 Translation: Italian-English, English-Italian. 3 cr. U. Contrastive study of literary and non-literary Italian and English prose styles and of the technical problems of translation. | Prereq: Italian 203(P) or cons instr.

321 Introduction to Italian Literature. 3 cr. U. Varied approaches to reading works by major Italian authors. Development of critical skills in speaking and writing. Texts vary each semester. | May be retaken to 6 cr max. Prereq: Italian 204(P) or cons instr.

322 Introduction to Italian Literature and Film. 3 cr. U. Interdisciplinary approaches to major works of literature and film. Development of critical reading, speaking, and writing skills. Texts vary each semester. | May be retaken to 6 cr max. Prereq: Italian 204(P) or cons instr.

333 Dante's Divine Comedy in Translation. 3 cr. U/G. Close reading of the Inferno, Purgatorio, and Paradiso, including their connections to the visual arts. | Prereq: jr st.

335 Political Theory, Historiography, and Scientific Thought in Italy. 3 cr. U. Nature of the universe and human history in works of Dante, Machiavelli, Galileo, Bruno, Campanella, Vico, Croce, and Gramsci. Reading and papers in Italian required of majors (option A). | Prereq: jr st; cons instr.

357 Topics in Italian Culture in Translation: (Subtitled). 3 cr. U. Examination of a specific topic or genre in works from one or more periods. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

383 Honors Seminar: (Subtitled). 3H cr. U. A period, figure, theme, or genre. Specific aims and method of course vary according to the topic. | May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

391 Phonetics. 2 cr. U/G. Theory of Italian sounds; phonetic transcription; practice in pronunciation. Language lab may be required. | Prereq: jr st & Italian 311(P) or 312(P); or grad st.

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

413 Introduction to Italian to English Translation. 3 cr. U/G. Comprehensive overview of Italian to English translation; interactive learning of vocabulary and language usage through application of different translation topics; literary, technical, personal documents translation. | Prereq: two of Italian 311(P), 312(P), 321(P), or 322(P) or equiv; or admis to grad prog in Translation; or cons instr.

414 Advanced Seminar in Italian to English Translation. 3 cr. U/G. Advanced level Italian to English translation

overview; interactive learning of language usage through advanced exercises covering different translation topics; medicine, technology, business/advertising, and film/subtitling. |Prereq: jr st; Italian 413(P); or cons instr.

456 Topics in Italian Food Studies: (Subtitled). 3 cr. U/G. Interdisciplinary study of a topic or period related to Italian food culture, with attention to historical and social contexts. |Taught in English. May be retaken w/chg in topic to 9 cr max. Prereq: jr st or cons instr.

457 Topics in Italian Literature and Culture in Translation: (Subtitled). 3 cr. U/G. Critical reading, lectures, and discussion of major works on a topic, genre, or period; attention to cultural and historical context. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

460 The Italian Novel from Manzoni to the Present. 3 cr. U/G. Major trends and critical problems. |Prereq: jr st, Italian 321(P) & 322(P), & cons instr; or grad st.

463 Italian Poetry from Romanticism to Hermeticism. 3 cr. U/G. Foscolo, Leopardi, Carducci, Pascoli, D'Annunzio, Marinetti, Campana, Ungaretti, Montale, Quasimodo. |Prereq: jr st & Italian 321(P) & 312(P); or grad st.

466 Italian Theatre from the Commedia Dell'Arte to Pirandello. 3 cr. U. Textual approach and historical development of the genre from the seventeenth to the twentieth century. |Prereq: jr st; Italian 311(P) & 312(P).

489 Internship in Italian, Upper Division. 1-6 cr. U. Application of advanced principles of Italian in a business, organizational, educational, political, or other appropriate setting. |Each cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: jr st; Italian 311(P) & 312(P); 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

551 Literature of the Thirteenth and Fourteenth Centuries. 3 cr. U. The first masterpieces of modern European literature from the Sicilian School of poetry to Petrarch, and from the early novellas to Boccaccio's Decameron. |Prereq: jr st; Italian 311(P) & 312(P).

552 The Renaissance: 3 cr. U/G. One or more aspects of intellectual, literary, and artistic production in Italy from Petrarch and Humanism to the Counter-Reformation. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st & Italian 311(P) & 312(P); or grad st.

556 A Literary Period: 3 cr. U. Cross-disciplinary study of the main literary, intellectual, and cultural aspects of a specific period. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Italian 311(P) & 312(P).

570 Outline of Italian Literary History. 3 cr. U. Historical overview of Italian literature covering the major periods and movements and stressing the relations between literature, philosophy, and aesthetics. |Prereq: jr st; Italian 311(P) & 312(P).

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. |May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

629 Major Film Directors: (Subtitled). 3 cr. U. Thematic, stylistic, and aesthetic study of outstanding figures of the Italian cinema. |May be retaken w/chg in topic to 9 cr max. In English. Prereq: jr st.

659 The Divine Comedy. 3 cr. U/G. Lectures on the life and times of Dante and reading of selected passages from his minor works.|Prereq: jr st & Italian 311(P) & 312(P); or grad st.

660 The Divine Comedy. 3 cr. U/G. Continuation of Italian 659.|Prereq: jr st & Italian 659(P) or cons instr; or grad st.

670 Studies in Italian Literature: 3 cr. U/G. Major movements or periods, criticism, studies in genres, relations between literature and other disciplines/arts.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st & Italian 311(P) & 312(P); or grad st.

671 Major Italian Authors: 3 cr. U. Specific subjects may be the works of one or several authors studied in the aesthetic and intellectual contexts of the period covered.|May be retaken w/chg in topic. Prereq: jr st; Italian 311(P) & 312(P).

675 Literary Theory and Critical Perspectives. 3 cr. U. Major trends in Italian critical thought, with emphasis on contemporary literary theory and methods; stylistic, psychoanalytic, Marxist, and semiotic criticism.|Prereq: jr st; Italian 311(P) & 312(P).

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Advanced Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of an Italian faculty or instructional academic staff member. For additional information, consult Italian prog coord.|May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA, & writ cons instr, dept chair, & asst dean for SAS.

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LATIN Latin

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103 First Semester Latin. 4 cr. U. A systematic introduction to the morphology, syntax, and vocabulary of Latin. | Prereq: none.

104 Second Semester Latin. 4 cr. U. Continuation of Latin 103: systematic introduction to the morphology, syntax, and vocabulary of Latin. | Prereq: Latin 103(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).

150 Intensive Latin. 4 cr. U. Rapid introduction to Latin for students in fields other than classics who require a knowledge of Latin for continued work in their fields. Readings concentrate on medieval Latin. | Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. | May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

205 Third Semester Latin. 4 cr. U. Continuation of Latin 104: systematic introduction to the morphology, syntax, and vocabulary of Latin. | Counts as repeat of Latin 201. Prereq: Latin 104(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro crs).

289 Internship in Latin, Lower Division. 1-6 cr. U. Application of basic principles of Latin in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Latin; 2.25 gpa; cons supervising faculty member.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

306 Readings in Latin Literature: (Subtitled). 3 cr. U. Reading of texts of Latin literature with emphasis on morphology, syntax, vocabulary; a transition to 500 level courses. | Counts as repeat of 2 cr Latin 203 & 1 cr Latin 310. May be retaken w/chg in topic to 9 cr max. Prereq: Latin 205(P) or equiv H.S. prep as determined by placement test. Generates L&S credit for demonstrated equivalent preparation (12 retro crs).

489 Internship in Latin, Upper Division. 1-6 cr. U. Application of advanced principles of Latin in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in

internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Latin; 2.25 gpa; cons supervising faculty member.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

501 Readings in Latin Prose: (Subtitled). 3 cr. U/G. Extensive reading in a major author or related major authors; e.g., Cicero, Caesar, the historians, Seneca, Pliny the Younger. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Latin 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).

502 Readings in Latin Poetry: (Subtitled). 3 cr. U/G. Extensive reading in a major or related major authors, e.g., the comic dramatists, the lyric poets, the elegists, the satirists, the writers of epic. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Latin 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs)..

508 Latin Prose Composition. 3 cr. U/G. Survey of Latin syntax and idioms, with appropriate exercises in prose composition. Required of Latin majors. | Prereq: Latin 310(P) or equiv prep as judged by instr.

699 Directed Reading. 1-3 cr. U. Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord. | May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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LATINO Latino Studies

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101 Introduction to Latino Studies. 3 cr. U. Analyses of the historical and structural forces which have shaped the experience of Latinos in the U.S., including the relationship between Latinos and social institutions. |Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent study under supervision of faculty or academic staff member. For further information, consult dept chair. |Retakable to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

201 Special Topics in U.S. Latino Studies: (Subtitled). 3 cr. U. Interdisciplinary topics central to U.S. Latino studies. |Retakable w/chg in topic to 9 cr max. Prereq: none.

267 The History of Latinos in the United States. 3 cr. U. History and culture of Latinos in the United States from the colonial period to the present; emphasis on Mexican American, Puerto Rican, and Cuban experiences. |Hist 267 & Latino 267 are jointly offered; they count as repeats of one another. Prereq: none.

279 Introduction to U.S. Latino/a Literature: (Subtitled). 3 cr. U. Latino/a American literature with a focus on region, genre, theme, or period. |Retakable w/chg in topic to 9 cr max. English 279 & Latino 279 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

289 Internship in Latino Studies, Lower Division. 1-6 cr. U. Application of basic principles of Latino Studies in business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: 2.50 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. |One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in

topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Advanced Topics in U.S. Latino Studies: (Subtitled). 3 cr. U. Advanced-level interdisciplinary topics central to U.S. Latino studies.|Retakable w/chg in topic to 9 cr max. Prereq: jr st.

323 Perspectives on Latino Communities. 3 cr. U. Sociological analysis of the experiences of Latinos. Examination of immigration and mode of incorporation from theoretical perspectives. Emphasis on Chicanos, Cubans, and Puerto Ricans.|Latino 323 & Sociol 323 are jointly offered; they count as repeats of one another. Prereq: jr st & any Sociol 100-level course or cons instr.

374 Survey of U.S. Latino/a Literature. 3 cr. U. A general, representative study of U.S. Latino/a literature.|English 374 & Latino 374 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

388 Latino Politics. 3 cr. U. Contemporary Latino politics in the U.S.; demographic analysis; interplay between political incorporation and political institutional responses; Chicano movement, immigration policies, public opinion, voting behavior, representation.|Latino 388 & Pol Sci 388 are jointly offered; they count as repeats of one another. Prereq: jr st.

423 Latino Immigration and Incorporation: (Subtitled). 3 cr. U/G. Latino institutional, geo-political, demographic, comparative, and social network theoretical perspectives on migration to and incorporation into the United States|Retakable w/chg in topic to 6 cr max. Latino 423 & Sociol 423 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; 3 cr in Sociol at 200 level or above or cons instr; add'l prereqs may be assigned for specific topics.

489 Internship in Latino Studies, Upper Division. 1-6 cr. U. Application of basic principles of Latino Studies in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

523 Studies in U.S. Latino/a Literature: (Subtitled). 3 cr. U. Critical study of themes, figures, aspects, trends, etc. in U.S. Latino/a Literature.|Retakable w/chg in topic to 9 cr max. English 523 & Latino 523 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Latino Studies faculty or academic staff member.|Retakable w/chg in topic to 9 cr max in any combination of LACS/Latino 698, LACS 699, and Latino 699. Prereq: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

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L&S HUM L&S-Humanities

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192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

289 Internship in Humanities, Lower Division: (Subtitled). 1-6 cr. U. Application of basic principles of humanities in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in humanities; 2.25 gpa; cons supervising faculty member.

293 Sophomore Scholars Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to soph. Retakable w/chg in topic to 6 cr max. Prereq: soph st.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in Humanities, Upper Division. 1-6 cr. U. Application of advanced principles of humanities in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in humanities; 2.25 gpa; cons supervising faculty.

496 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

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L&S NS L&S-Natural Science

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111 Introduction to the Practice of Pharmacy. 1 cr. U. Overview of pharmacy, including historical perspectives. Specialization options, current issues and future trends; service learning component.|Prereq: cons L&S pre-health professions advisor.

120 STEM CELL Success and Career Seminar. 1 cr. U. Strategies and practices to promote college success in STEM disciplines Retakeable for cr to 4 cr max.|Prereq: none.

289 Internship in Natural Sciences, Lower Division: (Subtitled). 1-6 cr. U. Application of basic principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max. Prereq: intro course in natural sciences; 2.25 gpa; cons supervising faculty member.

295 Seminar in the Natural Sciences: (Subtitled). 1-3 cr. U. Seminar on various topics in the natural sciences. Topic and prerequisites (if any) announced in Schedule of Classes each time course is offered.|Retakable w/chg in topic to 6 cr max. Prereq: none.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in Natural Sciences, Upper Division. 1-6 cr. U. Application of advanced principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in natural sciences; cons supervising faculty member.

496 UROP Apprenticeship, Upper Level. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP Apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

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L&S SS L&S-Social Sciences

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193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

268 (Pol Sci 268) Practicum in Mock Trial I. 1-3 cr. U. Introduction to the issues, concepts, and practice of mock trial. | Retakable to 6 cr max. Students may not earn more than a total of 9 cr in Pol Sci/L&S SS 268/468 combined. Prereq: none.

289 Internship in Social Sciences, Lower Division: (Subtitled). 1-6 cr. U. Application of basic principles of social sciences in a business, organizational, educational, political, or other appropriate settings. | One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max. Prereq: intro course in social sciences; 2.25 gpa; cons supervising faculty member.

291 UROP Seminar. 1 cr. U. Discussion of the methodology and intellectual underpinnings of academic research. Required of all UROP participants. | Retakable to max 4 cr in any combination of L&S SS 291, 294, & 295. Prereq: acceptance to UROP; conc reg in UROP apprenticeship.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

468 (Pol Sci 468) Practicum in Mock Trial II. 1-3 cr. U. Continuation of the study of the issues, concepts, and practice of mock trial. | Retakable to 6 cr max. Students may not earn more than a total of 9 cr in Pol Sci/L&S SS 268/468 combined. Prereq: jr st; Commun/Pol Sci 268(P); satisfaction of GER English Composition competency req.

489 Internship in Social Sciences, Upper Division. 1-6 cr. U. Application of advanced principles of social sciences in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in social sciences; 2.25 gpa; cons supervising faculty member.

496 UROP Apprenticeship, Upper-Level. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. |Retakable to 9 cr max in any combination of UROP Apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Washington Internship. 9 cr. U. Thirty-six hours of work per week in approved internships in Washington, D.C. supervised by the Washington Center for Learning Alternatives. Weekly seminar attendance. |Cr/no cr only. Prereq: jr st, nomination by Washington Intern Committee, & conc reg in appropriate 699 or other independent study course.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

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INFOST Information Studies

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101 Information Literacy. 1 cr. U. Emphasis on techniques in information gathering for students to build expertise in exploring information sources and services. Provides foundation for independent life-long learning experiences.|Prereq: none.

110 Introduction to Information Science and Technology. 3 cr. U. Introduces basic issues in information science, including the nature of information, information policy, knowledge organization, information services, and the relationships between information technologies and society.|Counts as repeat of InfoSt 110X. Prereq: none.

120 Information Technology Ethics. 3 cr. U. Comprehensive overview of the current ethical issues in information and technology use.|Counts as repeat of InfoSt 120X. Prereq: none.

150 Introduction to Information Resources on the Internet. 3 cr. U. Overview of the internet and its resources and services. Introduction to information retrieval and research skills on the internet.|Counts as repeat of InfoSt 150X. Prereq: none.

210 Information Resources for Research. 3 cr. U. Introduction to research processes necessary for effective, college-level, library research. Emphasizes analysis of research questions, development of search strategies, and critical evaluation of materials.|Counts as repeat of InfoSt 210X. Prereq: none.

230 Organization of Knowledge. 3 cr. U. An interdisciplinary introduction to information and knowledge organization, including principles of conceptual systems in various disciplines and their relevance and application to knowledge organization.|Counts as repeat of InfoSt 230X. Prereq: InfoSt 110(C).

230 (effective 09/04/2018) Organization of Knowledge. 3 cr. U. An interdisciplinary introduction to information and knowledge organization, including principles of conceptual systems in various disciplines and their relevance and application to knowledge organization.|Counts as repeat of InfoSt 230X. Prereq: none

240 Web Design I. 3 cr. U. Uses popular authoring tools to cover the basics of organizing information.|Counts as repeat of InfoSt 240X. Prereq: none.

250 Internet Communications and Information Transfer. 3 cr. U. Special emphasis will be upon the Internet and information communications and new communication technologies influencing information services.|Prereq: InfoSt(L&I Sci) 110(P).

291 Special Topics in Information Science and Technology: (Subtitled). 1-3 cr. U. New developments and research in information science & technology. Specific credits and any additional prereqs announced in Schedule of Classes whenever course is offered. | May be retaken w/chg in topic to 9 cr max. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

310 Human Factors in Information Seeking and Use. 3 cr. U. Overview of human information needs, seeking, and processing, including human factors in the design, development and evaluation of information services. | Counts as repeat of InfoSt 310X. Prereq: InfoSt 110(C).

320 Web Design II. 3 cr. U. Examination and utilization of advanced technologies and practices being employed in web usability and design. | Counts as repeat of InfoSt 491 Advanced Web Design & InfoSt 320X. Prereq: InfoSt 240(P).

325 Information Security I. 3 cr. U. Introduction to issues and practices related to the protection of information and other digital assets. | Counts as repeat of InfoSt(L&I Sci) 491 w/same topic. Prereq: jr st.

330 Electronic Information Retrieval Systems. 3 cr. U. Basics of using electronic information retrieval systems, emphasizing internet and commercial services, in order to obtain information. Includes weekly laboratory sessions. | Counts as repeat of InfoSt 330X. Prereq: InfoSt(L&I Sci) 210(P) & 110(P).

340 Introduction to Systems Analysis. 3 cr. U. Theories, principles, and tools for planning, organizing, assessing, and evaluating information. Emphasizes the importance of user's perspective. Covers the various stages of systems analysis and outlines the appropriate methods for each stage. | Counts as repeat of InfoSt 340X. Prereq: InfoSt(L&I Sci) 240(P).

340 (effective 09/04/2018) Introduction to Systems Analysis. 3 cr. U. Theories, principles, and tools for planning, organizing, assessing, and evaluating information. Emphasizes the importance of user's perspective. Covers the various stages of systems analysis and outlines the appropriate methods for each stage. | Counts as repeat of InfoSt 340X. Prereq: InfoSt 310(C) & 410(C).

350 Introduction to Application Development. 3 cr. U. Introduction to the fundamental concepts of application development. Basic application development concepts will be explained, analyzed, and practiced. | Counts as repeat of InfoSt 291 with topic 'Intro to Programming.' Prereq: InfoSt 110(C) or cons instr.

370 Data Analysis and Visualization for the Information Professional. 3 cr. U. Introduction to data analysis and visualization using simple statistical analyses to create graphical depictions of data that can improve comprehension, communication, and decision making. | Counts as repeat of InfoSt 370X. Prereq: satisfaction of GER QL Part A.

375 Multimedia Web Design. 3 cr. U. Fundamentals of interactive Web development and scripting, allowing students to create Web animations and render interactivity of information on the Web. | Counts as repeat of InfoSt 491 with topic of Flash & InfoSt 375X. Prereq: InfoSt(L&I Sci) 240(P).

383 Native Mobile Applications. 3 cr. U. Fundamentals of native mobile application development including development environments, mobile OS considerations, and the potential and limitations of mobile applications. | Counts as repeat of InfoSt 491 w/similar topic. Prereq: none

385 Information Security II. 3 cr. U. Advanced topics and practices in information security including social, technological, educational and economic implications of information security and privacy. | Counts as repeat of InfoSt(L&I Sci) 491 w/same topic. Prereq: InfoSt 325(P).

399 Independent Study. 1-3 cr. U. Guided readings or research under faculty supervision. | May be retaken to max of 6 cr. Prereq: jr st; 24 cr in IST major; cons instr.

410 Database Information Retrieval Systems. 3 cr. U. Introduces the design and development of different types of electronic information systems, including database types, design issues, application development, and software selection and evaluation.|Counts as repeat of InfoSt 410X. Prereq: jr st.

425 (L&I Sci480) Books, Paper, and Their Preservation. 1 cr. U/G. History, theory, and practical application of conservation solutions currently practiced by professional conservators.|Prereq: jr st.

430 Multimedia Application Development. 3 cr. U. This course covers the basic concepts of multimedia and their applications in information services, including image representation and processing and multimedia information delivery.|Prereq: InfoSt(L&I Sci) 310(P).

440 (effective 09/04/2018) Web Application Development. 3 cr. U. The interactive web design server interaction. Special emphasis on database connectivity and application development on the Internet.|Counts as repeat of InfoSt 440X. Prereq: InfoSt 240(P), InfoSt 350(P), or cons instr.

440 Web Application Development. 3 cr. U. The interactive web design server interaction. Special emphasis on database connectivity and application development on the Internet.|Counts as repeat of InfoSt 440X. Prereq: InfoSt 240(P) or cons instr.

465 Legal Aspects of Information Products and Services. 3 cr. U/G. Introduction to legal environment surrounding development and use of information products and services, including intellectual property, and issues specific to internet and other digital mediums.|Counts as repeat of InfoSt 465X. Prereq: jr st.

490 Senior Capstone. 3 cr. U. Analysis, creation, development and presentation of an information retrieval system project for an information organization.|Counts as repeat of InfoSt 490X. Prereq: sr st; InfoSt(L&I Sci) 340(P) & 410(P).

491 Advanced Topics in Information Science & Technology: (Subtitled). 1-3 cr. U. Advanced examination of emerging developments and research in information science & technology.|May be retaken w/chg in topic to 15 cr max. Prereq: jr st; additional prereq announced each offering.

495 Information Internship. 1-3 cr. U. Field experience of 50-150 hours under faculty and field supervisor guidance. Student must also complete a supervised field project.|May enroll in 2 sections in same term to 9 cr max. Prereq: 12 cr in the IST major; cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

501 Foundations of Library and Information Science. 3 cr. U/G. Historical introduction to library and information science (LIS); outline of the role of information agencies in disseminating knowledge to users; overview of research in LIS.|Prereq: jr st.

511 Organization of Information. 3 cr. U/G. Introduction to basic concepts in the theoretical, practical, and technological aspects of information organization.|Not open for cr to students with cr in InfoSt(L&I Sci) 530. Prereq: jr st.

520 Managing Library Collections. 3 cr. U/G. Theory and practice of collection management across formats including selection tools and criteria, acquisition and evaluation of collections, deselection, preservation, and other collection development topics.|Prereq: jr st; InfoSt(L&I Sci) 501(P) or cons instr.

521 Introduction to Reference Services and Resources. 3 cr. U/G. An investigation into reference services, reference interviews, and organization, including critical examination of basic reference sources.|Prereq: jr st; InfoSt(L&I Sci)

501(P), 571(P); or cons instr.

524 Management of Libraries and Information Services. 3 cr. U/G. The library/information center as a service organization. Management of the library/information center: planning, budgeting, decision making, leadership styles, motivation, communication, personnel and financial management.|Prereq: jr st; InfoSt(L&I Sci) 501(P); or cons instr.

547 User-Centered Interaction Design. 3 cr. U/G. Introduction of human-computer interaction theories and design processes. Emphasis is on applied user experience (UX) design.|Jointly offered with & counts as repeat of CompSci 547. Prereq: sr st.

571 Information Access and Retrieval. 3 cr. U/G. An overview of the concepts and theory related to information retrieval.|Prereq: jr st.

582 Introduction to Data Science. 3 cr. U/G. Introduces basic concepts, background, theoretical, practical and technological aspects of data science.|Prereq: jr st; or cons instr.

583 Survey of Information Security. 3 cr. U/G. Introduces information security concepts, issues, and technological practices related to privacy, trust, and protection of information and digital assets.|Prereq: jr st or cons instr.

584 Survey of Web and Mobile Content Development. 3 cr. U/G. Current best practices and theory for the development of content and applications across different platforms, systems, and devices emphasizing responsive design and frameworks.|Prereq: jr st or cons instr.

603 History of Books and Printing. 3 cr. U/G. The people, ideas, and events in the history of bookmaking from ancient times to the 1890's.|Prereq: jr st.

619 Topics in Information Organization: (Subtitled). 1-3 cr. U/G. Study of particular topics in Information Organization. Specific topics announced in Schedule of Classes each time course is offered.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st & InfoSt(L&I Sci) 511(P); or cons instr.

622 Information Marketing. 3 cr. U/G. Concepts and principles of marketing and strategic planning as they apply to libraries and information agencies; case studies in information brokering and repackaging.|Prereq: jr st.

627 Music Librarianship. 3 cr. U/G. Examination of materials used in obtaining music information and in establishing bibliographic control. Emphasis on reference, library instruction, collection management, and organization of music collections.|Prereq: jr st; InfoSt(L&I Sci) 511(531)(P), 571(P); or cons instr.

632 Microcomputers for Information Resources Management: 3 cr. U/G. Use and applications of microcomputers in various library and information management functions. Requires 1-2 hrs of weekly laboratory time.|Prereq: jr st & cons instr.

642 School Library Media Programs and Resources. 3 cr. U/G. A study of the functions of the school library media center as an educational component including service, administration, collection development and utilization of materials.|Prereq: jr st; InfoSt(L&I Sci) 511(531)(P); 520(P); 571(P); or cons instr.

644 School Library Practicum. 1-3 cr. U/G. Field experience of 210 hours in elementary and secondary school library media services under faculty and field supervisor guidance.|Prereq: jr st; school library media certification program students only; InfoSt(L&I Sci) 511(531)(P), 520(P), 571(P) & 642(672)(C); or cons instr.

645 Library Materials for Children. 3 cr. U/G. Introduction to print and media resources available in library collections; selection procedures, evaluation criteria, access and promotion of use of materials.|Prereq: jr st.

646 Library Materials for Young Adults. 3 cr. U/G. Criteria for evaluation and selection of materials for young adults, emphasizing current resources, techniques of reading guidance and book talks.|Prereq: jr st.

650 An Introduction to Modern Archives Administration. 3 cr. U/G. An introduction to the archives profession, archives administration, main uses of primary sources in academic research, and archival issues regarding the Internet and other technologies. |Prereq: jr st; InfoSt 501(C).

655 Information and Records Management: 3 cr. U/G. Principles and practices of information and records management: organizational information needs, retention, schedules, vital records protection, micrographics, records centers and records management policy. |Prereq: jr st.

656 Electronic Documents and Records Management. 3 cr. U/G. Advanced concepts, unique challenges, and on-going issues of electronic records management, including automated systems, information lifecycle management, access, legality, media stability, migration, and long-term preservation. |Counts as repeat of InfoSt(L&I Sci) 691 w/same topic. Prereq: jr st; InfoSt(L&I Sci) 655(P) or cons instr.

660 Information Policy. 3 cr. U/G. Explore various aspects of information policy including privacy, intellectual property, and intellectual freedom; covers applicable methodologies. |Prereq: jr st.

661 Information Ethics. 3 cr. U/G. Ethical traditions, concepts, and principles for the information professions in the global information society; ethical implications of information technologies. |Counts as a repeat of L&I Sci 691 with similar topic/title. Prereq: jr st & InfoSt(L&I Sci) 110(P); 501(P) or cons instr.

670 Instructional Technologies. 3 cr. U/G. Traditional technologies, multimedia formats, and computer-based technologies for instructional purposes. |No degree cr for students with cr in InfoSt(L&I Sci) 668 or 669. Prereq: jr st; InfoSt(L&I Sci) 632(P).

674 The Search Engine Society. 3 cr. U/G. Critical examination of the role of search engines in contemporary society, including impact on information organization and retrieval, information institutions, information policy, law, and ethics. |Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic. Prereq: jr st; InfoSt(L&I Sci) 501(P) or cons instr.

675 Information Technology and Organizations. 3 cr. U/G. Topical seminar, exploring the relationship between information technology (IT) culture, organizations and the organization of work, cultures, subcultures; sociology of IT work; enterprise systems; knowledge management; data mining and IT careers. |Prereq: jr st.

682 Digital Libraries. 3 cr. U/G. Concepts and technologies for development of digital libraries. Topics include tools for multimedia digitization, organization of digital resources, and evaluation of digital libraries and gateways. |Prereq: jr st & InfoSt(L&I Sci) 110(P); 501(P); or cons instr.

685 Electronic Publishing and Web Design. 3 cr. U/G. An introduction to principles of visual communications related to electronic media with emphasis on website development, electronic documents, and production and dissemination of electronic information. |Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic. Prereq: jr st.

691 Special Topics in Information Science: (Subtitled). 1-3 cr. U/G. An exploration of current topics in information science. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time course is offered. |May be retaken w/chg in topic to max of 9 cr. Prereq: jr st; cons instr.

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LINGUIS Linguistics

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100 The Diversity of Human Language. 3 cr. U. Survey course on the nature and diversity of human language. Topics include language and society, dialects, language and culture, language acquisition, and language typology. Prereq: none.

102 Uncommonly Taught Language: Intensive First Semester: (Subtitled). 5-7 cr. U. Intensive training in an uncommonly taught language, for students with no previous knowledge of the language. May be retaken w/chg of language. FLL 102 & Linguis 102 are jointly offered; w/same topic, they count as repeats of one another. Prereq: none.

103 First Semester of an Uncommonly-Taught Language: (Subtitled). 1-4 cr. U. Elementary training in an uncommonly-taught language (i.e. one not otherwise offered in any UWM program). Number of credits earned by the student is determined by the credit value assigned to section number. For students with no previous knowledge of the language. May be retaken w/chg in language. FLL 103 & Linguis 103 are jointly offered; with same topic, they count as repeats of one another. Prereq: none.

104 Second Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 103 (Linguis 131). Number of credits earned by student is determined by the credit value assigned to section number. May be retaken w/chg in language. FLL 104 & Linguis 104 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 103(Linguis 131)(P) in same language.

105 First-Semester Hmong. 3 cr. U. Beginning Hmong for students with no previous knowledge of the language. No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 105 & Linguis 105 are jointly offered; they count as repeats of one another. Prereq: none.

106 Second-Semester Hmong. 3 cr. U. Continuation of Linguis 105. No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 106 & Linguis 106 are jointly offered; they count as repeats of one another. Prereq: Hmong 105/Linguis 105 (P).

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. May be retaken w/chg in topic to 9 cr max. Prereq: 2.5 gpa, cons instr, & either Linguis 100 or any Linguis course 200 or above.

200 Aspects of Language: (Subtitled). 3 cr. U. Selected topics involving innovative approaches to the study of language, particularly as related to other disciplines. |May be retaken w/chg in topic to 9 cr max. Prereq: none.

202 Uncommonly Taught Language: Intensive Second Semester: (Subtitled). 5-7 cr. U. Continuation of FLL/Linguis 102(Linguis 133). |May be retaken w/chg in language. FLL 202 & Linguis 202 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 102(Linguis 133)(P) in same language.

203 Third Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 104(Linguis 132). Number of credits earned by student is determined by credit value assigned to section number. |May be retaken w/chg in language. FLL 203 & Linguis 203 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 104(Linguis 132)(P) in the same language.

204 Fourth Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 203(Linguis 231). Number of credits earned by student is determined by the credit value assigned to section number. |May be retaken w/chg in language. FLL 204 & Linguis 204 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 203(Linguis 231)(P) in same language.

210 Power of Words. 3 cr. U. Dynamic role of language in interpersonal relations, social attitudes and behavior. Topics include: patterns of culture and language, language as identification; prejudice, politics, and advertisement. |Prereq: none.

211 Origins of Words. 3 cr. U. Vocabulary of English from historical origins to the present; how words and word patterns change over time under influences of both internal and external forces. |Prereq: none.

212 Language and Gender. 3 cr. U. How patterns of speaking reflect, perpetuate, and create our experience of gender; how gender interacts with race, class, socioeconomic status, age, occupational and social roles. |Counts as a repeat of Linguis 200 with same topic. Prereq: none.

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. |Jointly offered with, & may be used to repeat, Classic 213, English 213, French 213, German 213, Italian 213, Polish 213, Russian 213, & Spanish 213. Prereq: none.

289 Internship in Linguistics, Lower Division. 1-6 cr. U. Application of basic principles of linguistics in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Linguis; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/topic chg. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

303 Fifth Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 204(Linguis 232). Number of credits earned by student is determined by the credit value assigned to section number. |May be retaken w/chg in language. FLL 303 & Linguis 303 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 204(Linguis 232)(P) in same language.

304 Sixth Semester of an Uncommonly Taught Language: (Subtitled). 3 cr. U. Continuation of FLL/Linguis 303(Linguis 331). Number of credits earned by student is determined by the credit value assigned to section number. |May be retaken w/chg in language. FLL 304 & Linguis 304 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 303(Linguis 331)(P) in same language.

350 Introduction to Linguistics. 3 cr. U. Introduction to basic linguistic principles and concepts. Elementary analysis of sentence patterns, sound systems and language change.|Prereq: jr st or a linguis course.

390 Fundamentals of Linguistic Analysis. 3 cr. U/G. Introduction to the systematic analysis of language. Principles and methods of describing phonological and syntactic processes.|Prereq: jr st & Linguis 350(P) or 400(P).

400 Introduction to English Linguistics. 3 cr. U/G. Application of linguistic theory and techniques to modern English. Linguis/English 400 required of all English majors and minors in School of Education.|Jointly-offered with & counts as repeat of English 400. Prereq: jr st; satisfaction of GER English Composition competency req.

406 Advanced English Grammar. 3 cr. U/G. Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax.|English 406 & Linguis 406 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 403(P).

410 Literacy, Grammar, and Methodologies in ESL Education. 3 cr. U/G. Grammatical and other linguistic concepts relevant to ESL education; implications for teaching language, reading and composition. Topics include language acquisition and grammatical problems in language/dialect variation.|Prereq: jr st & Linguis 350(P).

415 First Language Acquisition. 3 cr. U/G. Examination of research on what individuals know about their first language at different ages and the kinds of theories offered to explain these data.|Prereq: jr st & Linguis 350(P); or grad st & cons instr.

420 Introduction to Second Language Acquisition. 3 cr. U/G. Principles and methods of describing and comparing the structure of two or more languages with emphasis on the implications of this comparison for language learning.|Prereq: jr st; Linguis 350(P) or equiv.

430 Language and Society. 3 cr. U/G. The influence of society on language and of language on society. Language as social interaction, speech styles, social dialects; effects on language change.|Prereq: jr st & Linguis 350(P).

432 Urban Dialects. 3 cr. U/G. Study of language variation in urban areas. Structure of black English vernacular and its relation to other dialects. Social and educational implications of dialect variation.|Prereq: jr st & Linguis 100 or 350.

440 Psycholinguistics. 3 cr. U/G. A survey of the history, goals, methods, and findings of psycholinguistics. Principal topics: phonetic perception, speech production, syntactic processing, linguistic memory, meaning, and language acquisition.|Prereq: jr st; Linguis 350(R) or Psych 101(R); or grad st & cons instr.

450 General Phonetics and Phonetics Practicum. 3 cr. U/G. Study of linguistic phonetics, including articulatory physiology, acoustics, and speech perception. Practice in production and transcription of a wide variety of speech sounds. 3 hrs lec with practicum.|Prereq: jr st.

460 Introduction to Phonology. 3 cr. U/G. Basic properties of sounds, sound patterns, and sound processes of spoken language.|Prereq: jr st & Linguis 350(P); or grad st & cons instr.

460 (effective 09/04/2018) Introduction to Phonology. 3 cr. U/G. Basic properties of sounds, sound patterns, and sound processes of spoken language.|Prereq: jr st & Linguis 350(P); or grad st & cons instr.

464 Introduction to Syntax. 3 cr. U/G. Study of word and sentence formation in languages. Practice in analysis and argumentation using data from various languages.|Prereq: jr st & Linguis 350(P); or grad st & cons instr.

466 Semantics. 3 cr. U/G. The study of meaning in language; its role in grammatical description. Basic concepts used in semantic analysis and discussion of their place in grammatical theory.|Prereq: jr st & Linguis 260(P) or 350(P) or Philos 211(P), or grad st & cons instr.

468 Language in its Various Forms: (Subtitled). 3 cr. U/G. Analysis and description of various language types. Topics may include language change, language development, dialectology, and language typology. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st & Linguis 350(P); or grad st & cons instr.

470 Historical/Comparative Linguistics. 3 cr. U/G. The study of language change; introduction to internal reconstruction and the comparative method; generative approaches to historical change. |Prereq: jr st & Linguis 350(P); or grad st & cons instr.

474 Language Typology and Language Universals. 3 cr. U/G. Comparison of phonetic, syntactic, and lexical patterns of different languages, with emphasis on deriving statements about properties of all languages or of significant subclasses of languages. |Prereq: jr st & Linguis 350(P); or grad st & cons instr.

476 Linguistic Theory. 3 cr. U/G. Survey of twentieth century American linguistic theories from traditionalism through American structuralism to generative grammar, including discussion of some current issues. |Prereq: jr st & Linguis 350(P); or grad st & cons instr.

489 Internship in Linguistics, Upper Division. 1-6 cr. U. Application of advanced principles of linguistics in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in linguistics; 2.25 gpa; cons supervising faculty member.

490 Field Methods. 3 cr. U/G. Work with a native speaker of a foreign language. Gathering and collation of data. Evaluation of possible phonemic and grammatical analyses. |Prereq: jr st & Linguis 350(P); or grad st & cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l semester. |May be retaken with change in topic. Prereq: jr st, add'l prereqs may be assigned to specific topic.

520 Advanced Second Language Acquisition: (Subtitled). 3 cr. U/G. Readings, discussions, and analyses of current issues in second-language acquisition theory. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Linguis 420(P) or equiv.

550 Phonetics II. 3 cr. U/G. Auditory phonetics; issues in speech production and speech acoustics; quantitative study of speech sounds in linguistic contexts; independent experimental research on topic selected by student. |Prereq: jr st; Linguis 450(370)(P) or cons instr.

560 Advanced Phonology. 3 cr. U/G. Fundamental issues in generative phonology; emphasis on comparing alternative models of phonological description. |Prereq: jr st; Linguis 460(P).

564 Advanced Syntax. 3 cr. U/G. Continuation of Linguis 464, with greater emphasis on the evaluation and justification of competing solutions and competing models of grammar. |Prereq: jr st & Linguis 464(P).

565 Introduction to Adult/University Level TESOL. 3 cr. U/G. Overview of the various approaches to teaching English as a second language (ESL) to adult/university-level learners. |Jointly-offered w/& counts as repeat of English 565. Does not satisfy requirements in School of Educ. Prereq: jr st; satisfaction of English Composition competency req.

566 Advanced Semantics. 3 cr. U/G. Readings, discussion, and analysis of current issues in formal semantics for natural language. |Prereq: jr st; Linguis 466(P) or equiv; or grad st.

567 Materials for ESL Instruction. 3 cr. U/G. Designed for prospective ESL/EFL teachers. Focus on planning and

designing courses to meet the needs of specific populations of language learners. |English 567 & Linguis 567 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; cons instr.

569 Practicum in Adult/University TESOL. 3 cr. U/G. A structured, supervised practicum in language teaching to students in the adult/university TESOL certificate program. |English 569 & Linguis 569 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; cons instr.

570 Issues in Bilingualism. 3 cr. U/G. Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints. |Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another. Prereq: jr st.

590 Morphology. 3 cr. U/G. Introduction to morphology, which is the study of word formation in human language. |Counts as repeat of Linguis 763. Prereq: jr st & Linguis 350(P); or grad st & cons instr.

699 Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a Linguis faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept chair. |May be retaken w/chg in topic to 12 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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JAMS Jrnalism/Advertising/Media Std

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101 Introduction to Mass Media. 3 cr. U. Overview of mass media from the printing press to the internet. Focus on media technologies, industries, content, and critical approaches.|Prereq: none.

111 Gender and the Media. 3 cr. U. How gender representations in popular media inform and construct our understandings of the world; gender in popular culture, including new media; critical analysis of representations.|No cr for students w/cr in JAMS 460. Prereq: none.

112 Global Media. 3 cr. U. How media function in other countries and cultures from a perspective informed by Western and non-Western conceptual, philosophical, and cultural frameworks.|No cr for students w/cr in JAMS 620. Prereq: none.

113 Internet Culture. 3 cr. U. Social, cultural, and historical dimensions of the Internet.|Prereq: none.

114 Media and Popular Culture. 3 cr. U. Critical perspectives on media and popular culture (including television, comic books, new media); how media and popular culture structure everyday life.|Prereq: none.

115 Introduction to Media and Politics. 3 cr. U. Preparation to be informed, critical consumers of political messages in wide range of mass media; applying research on political content and effects of mass media.|No cr for students w/cr in JAMS 615. Prereq: none.

116 Journalism, Documentary, and Democracy. 3 cr. U. The role of journalism and documentary in democracy examined through a variety of media products.|Prereq: none.

142 Television and Radio in American Society. 3 cr. U. Current issues in broadcasting in the United States, including ratings, programming, audience research, and effects.|Not open for cr to students who have cr in JAMS 250. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is

offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

201 Media Writing. 3 cr. U. Techniques and strategies for writing that can communicate effectively with media audiences; emphasizes innovation and creativity within the constraints of good grammar and style.|Prereq: satisfaction of OWC-A GER

204 News Writing and Technology. 3 cr. U. Writing, storytelling, digital editing and production for journalism and documentary.|Prereq: declared JAMS major or minor.

204 (effective 09/04/2018) News Writing and Technology. 3 cr. U. Writing, storytelling, digital editing and production for journalism.|Prereq: declared JAMS major or minor.

207 Introduction to Advertising and Public Relations. 3 cr. U. A practical approach to developing, implementing, and evaluating advertising and public relations strategies.|Prereq: declared JAMS major or minor.

210 Jewish and Ethnic Narratives and Identities in Media. 3 cr. U. Jewish and ethnic media; comparative analysis of narrative and identity constructions in photography, television, film, and convergent media.|Jewish 210 & JAMS 210 are jointly offered; they count as repeats of one another. Prereq: none.

212 Introduction to Corporate Communication. 3 cr. U. The profession of corporate communication; focus on the variety of mass communication strategies in the field.|Prereq: none.

214 Advertising in American Society. 3 cr. U. A critical survey of advertising's development and current practices as well as its impact on knowledge, attitudes, and behaviors.|Prereq: none.

230 Copy Editing. 3 cr. U. Training in print editing; introduction to basic layout principles.|Prereq: grade of B or better in JAMS 201(P).

231 Publication Design. 3 cr. U. Principles of print layout and design.|Prereq: none.

232 Photojournalism. 3 cr. U. The history of photography and the practice of photojournalism, including aesthetic, conceptual, and technical developments. Digital production and distribution.|Prereq: soph st.

260 Contemporary Non-Fiction Media. 3 cr. U. Overview of new and traditional forms of non-fiction media such as documentaries, web sites, and reality television.|Prereq: none.

262 Principles of Media Studies. 3 cr. U. Central issues and concerns in the field of media studies. Cultural study of media industries and production practices. Analysis of media texts and audiences.|Prereq: declared JAMS major or minor.

280 Selected Topics in Mass Communication: (Subtitled). 3 cr. U. Selected topics not addressed in regularly-approved courses.|May be retaken w/chg in topic to 6 cr max. Prereq: soph st; add'l prereqs, if any, announced in the Schedule of Classes.

289 Internship in Journalism and Media Communication, Lower Division. 1-6 cr. U. Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 75 hrs in internship. Does not count toward JAMS major or minor. Cr/no cr only. May be retaken to 6 cr max. Prereq: 2.5 gpa; cons supervising faculty member.

289 (effective 09/04/2018) Internship in Journalism and Media Communication, Lower Division. 1-6 cr. U.

Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting. |Students earn one academic credit per 40 hours of internship placement. Does not count toward JAMS major or minor. Cr/no cr only. May be retaken to 6 cr max. Prereq: 2.5 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. |Prereq: acceptance into UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

306 Feature and Magazine Article Writing: (Subtitled). 3 cr. U. Using interviews, analysis and/or observation to produce feature and profile stories. |May not be retaken for cr. Prereq: jr st; declared JAMS major/minor or English major.

307 Persuasive Media Writing and Production: (Subtitled). 3 cr. U. Writing, design, and production of persuasive media elements through individual and group work and skills-based activities. |May not be retaken for cr. Prereq: declared JAMS major/minor; grade of C or better in JAMS 207(P).

320 Integrated Reporting. 3 cr. U. Multimedia reporting and writing in an integrated newsroom setting. |Prereq: declared JAMS major or minor; grade of C or better in JAMS 204(P).

325 Audio Storytelling. 3 cr. U. Analysis of audio storytelling techniques and impact; audio storytelling production. |Counts as repeat of JAMS 380 w/similar topic. Prereq: jr st.

332 Introduction to Digital Documentary. 3 cr. U. How to film and edit quality documentary footage fit for client use, broadcast television, or film festival entry. |Prereq: declared JAMS major or minor; grade of C or better in JAMS 203(P), 204(P), 242(P) or 307(P).

336 Media Graphics. 3 cr. U. Production and analysis of mass media graphics, photographs, and illustrations. |Prereq: jr st; JAMS major/minor or Digital Arts and Culture (DAC) status; grade of C or better in JAMS 113(P) or grade of C or better in ART 118(P).

342 Television News Reporting. 3 cr. U. Reporting, writing, and editing television news, including field camera operation and video editing. |Prereq: declared JAMS major or minor; grade of C or better in JAMS 204(P).

356 Media Literacy. 3 cr. U. Application of general semantics and other critical thinking principles to reporting methodology and news judgment. |Prereq: jr st.

360 History of Mass Media. 3 cr. U. Evolution of mass media in the United States; how technological, cultural, political and economic changes have affected the media. |Prereq: jr st.

361 Media Ethics. 3 cr. U. Practical application of ethical principles to controversies in print and broadcast journalism, advertising, public relations, and new technologies of mass communication. |Prereq: jr st.

380 Special Topics in Journalism, Advertising, and Media Studies: (Subtitled). 3 cr. U. Special topics not addressed in regularly-approved courses. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st; any add'l prereqs announced in Schedule of Classes.

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics.|May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

399 On-Campus Internship. 3 cr. U. Professional internship in journalism, public relations, advertising, or other media.|May be retaken to 6 cr max in combination with JAMS 600. Prereq: jr st, declared JAMS major, & cons dept internship committee.

407 (effective 09/04/2018) Persuasive Media Strategies and Tactics. 3 cr. U. Exploration and analysis of advertising media buying and planning, and PR media relations.|Prereq: jr st; grade of C or better in JAMS 207(P); or cons instr.

450 Race and Ethnicity in the Media. 3 cr. U. How popular media representations of race inform understandings of past and contemporary society; race in popular culture, especially new media; critical analysis of media content and forms.|Counts as repeat of JMC 660 w/similar topic. Prereq: jr st.

460 (360) (effective 09/04/2018) History of Mass Media. 3 cr. U. Evolution of mass media in the United States; how technological, cultural, political and economic changes have affected the media.|Prereq: jr st.

461 (361) (effective 09/04/2018) Media Ethics. 3 cr. U. Practical application of ethical principles to controversies in print and broadcast journalism, advertising, public relations, and new technologies of mass communication.|Prereq: jr st.

481 Topics in Social Media: (Subtitled). 3 cr. U. Topics examining social media's use, influence and/or development.|May be retaken w/chg in topic to 6 cr max. Prereq. jr st. Not open for cr to students w/ cr in JAMS 380 w/ similar topic.

489 Internship in Journalism and Media Communication, Upper Division. 1-6 cr. U. Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 75 hrs in internship. Does not count toward JAMS major or minor. Cr/no cr only. May be retaken to 6 cr max. Prereq: 2.5 gpa; cons supervising faculty member.

489 (effective 09/04/2018) Internship in Journalism and Media Communication, Upper Division. 1-6 cr. U. Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting.|Students earn one academic credit per 40 hours of internship placement. A three-credit internship, therefore, requires the student to complete at least 120 hours. Does not count toward JAMS major or minor. Cr/no cr only. May be retaken to 6 cr max. Prereq: 2.5 gpa; cons supervising faculty member.

491 (381) (effective 09/04/2018) Honors Seminar: (Subtitled). 3H cr. U. Selected topics.|May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Advanced Integrated Reporting. 3 cr. U. Long form multimedia story production.|Prereq: jr st; declared JAMS major or minor; grade of C or better in 320(P).

502 (602) (effective 09/04/2018) Specialized Reporting: (Subtitled). 3 cr. U. Overview of the problems and challenges of specialized reporting in an area such as social science, science, the humanities and the arts.|May be retaken w/chg in topic to 9 cr max. Not open for cr to student w/cr in JAMS 602 w/similar topic. Prereq: jr st; declared JAMS major or minor; grade of C or better in JAMS 320(P).

503 Environment and the Media. 3 cr. U. Analysis of environmental reporting in a variety of media; confluence of science, health, business, and political influences in environmental coverage.|Counts as a repeat of JAMS 660 with similar title. Prereq: jr st

504 Critical and Opinion Writing. 3 cr. U. Training in editorial research and preparation of background and opinion articles.|Prereq: jr st.

505 (effective 05/21/2018) Research for Advertising and Public Relations. 3 cr. U/G. Examination of the research process through hands-on projects; how to formulate research questions, design questionnaires, collect data, and report and interpret answers to these questions.|Prereq: jr st; grade of C or better in JAMS 207(P); or cons instr.

505 Research for Advertising and Public Relations. 3 cr. U/G. Examination of the research process through hands-on projects; how to formulate research questions, design questionnaires, collect data, and report and interpret answers to these questions.|Prereq: jr st; grade of C or better in JAMS 207(P), 222(P), or 224(P); or cons instr.

524 Advertising and Public Relations Campaigns. 3 cr. U. Advanced course in advertising and public relations; emphasis on applying integrated practices and principles.|Prereq: jr st; grade of C or better in JAMS 222(P), 224(P), or 307(P); declared JAMS major or minor.

532 Documentary Production. 3 cr. U. Producing, directing, researching, and writing for long-format documentary journalism.|No cr for students w/cr in JAMS 660 w/similar topic. Prereq: declared JAMS major or minor; grade of C or better in JAMS 332(P).

544 (effective 09/04/2018) Advanced Television News Production. 3 cr. U. Newscast production; advanced reporting, writing and storytelling techniques.|Prereq: jr st; declared JAMS major or minor; grade of C or better in JAMS 342(P).

544 Television Newsroom Management. 3 cr. U. Principles and practices of television news management, including hands-on experience with television news producing, assignment editing, and managing reporting crews.|Prereq: jr st; declared JAMS major or minor; grade of C or better in JAMS 342(P).

559 Freedom of Expression in the Digital Age. 3 cr. U/G. First Amendment, copyright, privacy, libel, and other legal issues in contemporary news, media, persuasive communication, and social communication.|Prereq: jr st.

562 Media Studies and Culture. 3 cr. U/G. Mass media and the production of culture; media industries, content, and audiences; focus on contemporary issues.|Prereq: jr st; grade of C or better in JAMS 262(P).

600 Off-Campus Internship. 3 cr. U/G. Professional internship in journalism, public relations, advertising, or other media.|May be retaken to 6 cr max in combination with JAMS 399. Prereq: jr st & declared JAMS major, or grad st; cons internship committee.

602 Specialized Reporting: (Subtitled). 3 cr. U. Overview of the problems and challenges of specialized reporting in an area such as social science, science, the humanities and the arts.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; declared JAMS major or minor; grade of C or better in JAMS 320(P).

614 Seminar in Media and Public Opinion. 3 cr. U/G. Preparation to be critical consumer of polls and media coverage of them; theories and findings regarding propaganda and media influence on public opinion.|Prereq: jr st.

615 Seminar in Media and Politics. 3 cr. U/G. How news media cover politics; role of traditional and new media in political campaigns; political content and effects of entertainment media and documentaries.|Prereq: jr st.

620 Seminar in Global Media. 3 cr. U/G. Economic, regulatory, and cultural characteristics of national and global mass media.|Prereq: jr st.

645 Seminar in Health and the Media. 3 cr. U/G. Theoretical frameworks for examination of media representations of

health, illness, health care; impact of media consumption on health, illness; use of media in health promotion. |Counts as a repeat of JAMS 660 w/ health-related subtitle. Prereq: jr st.

659 Seminar in Comparative Media Law. 3 cr. U/G. Critical thinking and research about different countries' approaches to freedom of expression and legal issues relating to journalism, advertising, and other aspects of the media. |Prereq: jr st; JAMS 559 or cons instr.

660 Seminar in Contemporary Issues in Media Studies: (Subtitled). 3 cr. U/G. Research-oriented approaches to theoretical and social issues in mass communication. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

661 Seminar in Media Communication and Society: (Subtitled). 3 cr. U/G. Topics related to the mass media; the research process; development of a seminar paper based on original research. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st; add'l prereqs, if any, announced in the Schedule of Classes.

699 Advanced Independent Study. 1-6 cr. U. For further information, consult dept chair. |May be retaken w/chg in topic to 6 cr max. Prereq: jr st, 2.5 gpa, & writ cons instr, dept chair & asst dean for SAS.

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MATLENG Materials Sci & Engineering

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150 It's a Material World: The Role of Materials in Society. 3 cr. U. Introductory course on the nature of materials and their role in the development of society. Historical perspectives, current societal issues, and future trends are discussed.|Prereq: none.

201 Engineering Materials. 4 cr. U. Basic behavior and processing of engineering materials emphasizing metals and alloys and including ceramics and plastics. Laboratory work is included.|Prereq: Math 231(C), score of 1 on chem placement test or min grade C in Chem 100(P)

299 Topics in Materials: (Subtitled). 1-3 cr. U. Work on new material in materials. Section title and credits announced whenever course is offered.|May be retaken w/chg in topic to 6 cr max. Prereq: specific courses dependent on topic.

330 Materials and Processes in Manufacturing. 3 cr. U. Principles and practice of manufacturing processes for engineering materials. Processes include casting, forging, rolling, extrusion, sintering and machining. Laboratory work is included.|Prereq: MatlEng 201(P).

380 Engineering Basis for Materials Selection. 3 cr. U. The study of the basis for materials selection in the design of engineering systems. Materials design parameters, classes of materials case studies in material's selections.|Prereq: MatlEng 201(P).

385 (485) Introduction to Biomaterials. 3 cr. U. Introduction to the fundamentals of biomaterials including ceramics, metals, and polymers. Important issues in the selection, design, manufacturing, and evaluation of biomaterials. Current applications, and emerging technologies.|Jointly offered with & counts as repeat of BME 385. Prereq: jr st, MatlEng 201(P).

402 Physical Metallurgy. 3 cr. U/G. Crystal binding and electron theory of solids, phase diagrams, diffusion, nucleation and growth, recrystallization, precipitation hardening, solidification, austenite decomposition.|Prereq: jr st; MatlEng 201(P).

410 Mechanical Behavior of Materials. 3 cr. U/G. An introduction to the mechanical behavior of metals, ceramics, polymers and composite materials. Topics include elastic, plastic and viscoelastic deformation, fracture, fatigue, and creep.|Prereq: jr st; MatlEng 201(P); or grad st; or cons instr.

411 Materials Laboratory. 3 cr. U. Experiments demonstrating the basic laws governing the structure, properties, and processing of materials.|Prereq: sr st; MatlEng 201(P).

431 Welding Engineering. 3 cr. U/G. An engineering course on joining processes; reaction of materials to welding, brazing and soldering; distortion; process and material selection and structural engineering considerations.|Prereq: jr st; MatlEng 201(P).

442 Thermodynamics of Materials. 3 cr. U/G. Third law of thermodynamics; application of thermodynamics to materials processes and systems; behavior of solutions; reaction equilibria.|Prereq: jr st, admis to MatlEng major, MatlEng 201(P); or grad st; or cons instr.

443 (effective 09/04/2018) Transport Phenomena in Materials Processing. 3 cr. U/G. A study of phenomena related to transport of mass, energy, and momentum with applications to materials processing.|Prereq: jr st, MatlEng 442(P); & ElecEng 234(P) or Math 234(P); or grad st.

443 Transport Phenomena in Materials Processing. 3 cr. U/G. A study of phenomena related to transport of mass, energy, and momentum with applications to materials processing.|Prereq: jr st, MatlEng 442(P), & ElecEng 234 (P); or grad st.

452 Ceramic Materials. 3 cr. U/G. Ceramic bonding, crystallography and structure, defects and Brouwer diagram, mass and electrical transport of ceramics, phase equilibria, mechanical properties, and processing of ceramics including sintering.|Not open for cr to students with cr in MatlEng 451(ER). Prereq: jr st, MatlEng 201(P); or grad st.

453 Polymeric Materials. 3 cr. U/G. Structure, crystallinity of polymers, amorphous polymers and elastomers, synthesis method, polymerization, copolymerization, polymer characterization, polymer solutions, and viscoelasticity, deformation mechanics of polymers.|Not open for cr to students with cr in MatlEng 451(ER). Prereq: jr st, MatlEng 201(P); or grad st.

456 Metal Casting Engineering. 3 cr. U/G. Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.|MatlEng 456(421) and MechEng 456 are jointly offered; they count as repeats of one another. Prereq: jr st; MatlEng 201(P).

457 Engineering Composites. 3 cr. U/G. Study of the structure-property relationships in composite materials. Properties of fibers and other reinforcements. Metal, polymer and ceramic matrix composites.|MatlEng 457(455) & MechEng 457 are jointly offered; they count as repeats of each other. Prereq: jr st; MatlEng 201(P).

460 Nanomaterials and Nanomanufacturing. 3 cr. U/G. Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology.|MatlEng 460 & MechEng 460 are jointly offered; they count as repeats of each other. Prereq: jr st; MatlEng 201(P).

461 Environmental Degradation of Materials. 3 cr. U/G. Technical and economic aspects of material degradation including corrosion and corrosion control. Forms of corrosion, other degradation mechanisms, thermodynamics, kinetics, materials, design, protection strategies.|Prereq: jr st; MatlEng 201(P).

465 Friction and Wear. 3 cr. U/G. Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement.|Not open to students who have cr in MechEng 465, which is identical to MatlEng 465. Prereq: jr st; MatlEng 201(P).

471 Heat Treatment of Materials. 3 cr. U/G. Study of the heat treatment processes and their effect on the microstructure and properties of metals. Emphasis is on steels, but all alloy systems of importance are covered.|Prereq: jr st; MatlEng 201(P).

481 Electronic Materials. 3 cr. U/G. Electronic conduction in materials. Electronic phenomena in metals,

semiconductors, and insulators. Materials production, characterization, and application to micro-electronic devices, with particular emphasis on thin film technology. | Prereq: jr st; MatlEng 201(P) or cons instr.

483 Materials for Energy Systems. 3 cr. U/G. Processing, structure, and properties of materials used in energy systems. Focus on materials applied to solid oxide fuel cells, photovoltaics, and advanced secondary batteries. | Prereq: jr st, MatlEng 201(P).

490 Senior Design Projects I. 1 cr. U. Project identification and planning; proposals, project management, ethics, professional responsibilities, standards and team procedures. Written and oral engineering reports and proposals. For first semester seniors. | Prereq: sr st; MatlEng 411(C).

491 Senior Design Projects II. 3 cr. U. Independent and team design projects under the direction of a faculty member. Written and oral engineering reports must be submitted on each design project undertaken. | Prereq: MatlEng 490(P).

511 Advanced Materials Characterization. 3 cr. U/G. Theory and operation of advanced materials characterization instrumentation including thermal analysis (TGA, DSC, DMA), XRD, SEM/EDS, FTIR/Raman, 3D confocal microscopy. Prereq: jr st & MatlEng 411(P).

585 Advanced Biomaterials. 3 cr. U/G. Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering. | Jointly offered with & counts as repeat of BME 585. Prereq: sr st; MatlEng 385(P) or BME 385(P); or cons instr.

690 Topics in Materials: (Subtitled). 3 cr. U/G. Lectures on special topics in materials engineering and science. | May be retaken w/chg in topic to max of 9 cr. Prereq: jr st; cons instr.

699 Independent Study. 1-3 cr. U/G. | May be retaken to max of 6 cr applied toward undergraduate degree. Prereq: jr st; cons instr.

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MATH Mathematical Sciences

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90 Basic Mathematics. 0 cr. U. Arithmetic operations involving whole numbers, integers, positive and negative rational numbers; decimals, percents; ratio, proportion; radicals; descriptive statistics; units of measure; geometry; introduction to algebra. | Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Not open to students eligible for math courses that carry graduation credit. Prereq: none.

92 Mathematical Literacy for College Students I. 0 cr. U. Introduction to numeracy, proportional reasoning, algebraic reasoning, and functions. Emphasis on developing conceptual and procedural tools that support the use of key mathematical concepts in context. | Fee for 3 cr assessed; counts as 3 cr toward cr load for Fin Aid & enrollment verification. Prereq: Placement level E or D.

92 (effective 09/04/2018) Mathematical Literacy for College Students I. 0 cr. U. Introduction to numeracy, proportional reasoning, algebraic reasoning, and functions. Emphasis on developing conceptual and procedural tools that support the use of key mathematical concepts in context. | Fee for 3 cr assessed; counts as 3 cr toward cr load for Financial Aid & enrollment verification. Not recommended for students planning to take Calculus or Chem 100. Prereq: none.

94 Foundations of Elementary Mathematics. 0 cr. U. Arithmetic, geometry, and beginning algebra; develops mathematical reasoning, problem solving, and facility with basic mathematical objects and their relationships. Individualized instruction via adaptive learning software. | Fee for 6 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Math 94 counts as repeat of Math 90 & 95. Prereq: none.

95 Essentials of Algebra. 0 cr. U. Number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring, rational expressions; coordinate geometry; linear systems; quadratic equations. | Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Prereq: math placement level D.

95 (effective 09/04/2018) Essentials of Algebra. 0 cr. U. Number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring, rational expressions; coordinate geometry; linear systems; quadratic equations. | Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Prereq: math placement level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in Math 090; or (c) grade of D in Math 094.

98 (effective 09/04/2018) Algebraic Literacy I. 0 cr. U. Arithmetic number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring; modeling; coordinate geometry; linear systems; quadratic equations. Fee for 3 cr assessed; counts as 3 cr toward credit load for Fin Aid & enrollment verification only. Prereq: math placement level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in Math 090; or (c) grade of D in Math 094.

98 Algebraic Literacy I. 0 cr. U. Arithmetic number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring; modeling; coordinate geometry; linear systems; quadratic equations. Fee for 3 cr assessed; counts as 3 cr toward credit load for Fin Aid & enrollment verification only. Prereq: math placement level D.

102 Mathematical Literacy for College Students II. 3 cr. U. Continuation of Math 92, with an integrated approach to numeracy, proportional reasoning, algebraic reasoning, and functions. Prereq: Grade of C or better in Math 92(P) or (C).

103 Contemporary Applications of Mathematics. 3 cr. U. Logical inference, probability and statistical inference, geometric growth, with selected topics such as linear programming, patterns, binary codes. Prereq: ACT math subscore of 18 or higher, or Math Placement Level C.

105 (effective 09/04/2018) Introduction to College Algebra. 3 cr. U. Algebraic techniques with polynomials, rational expressions, equations and inequalities, exponential and logarithmic functions, rational exponents, systems of linear equations. Not open for cr to students who have cr in Math 108(ER). Prereq: Math Placement Level 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in Math 094, 095, or 098; or (c) ACT math subscore of 24 or higher.

105 Intermediate Algebra. 3 cr. U. Algebraic techniques with polynomials, rational expressions, equations and inequalities, exponential and logarithmic functions, rational exponents, systems of linear equations. Not open for cr to students who have cr in Math 108(ER). Prereq: math placement level C.

108 Algebraic Literacy II. 3 cr. U. Continuation of Math 98 in polynomials, equations, and inequalities; exponential, logarithmic, and periodic functions; rational expressions and exponents; and systems of linear equations. Not open for credit for students who have cr in Math 105(ER). Prereq: C or better Math 98.

111 (effective 09/04/2018) Introduction to Logic - Critical Reasoning. 3 cr. U. Students learn a broad variety of fundamental logical methods - techniques used to identify, analyze, model, evaluate, and criticize different types of real-world reasoning. Jointly offered w/ Philos 111; they count as repeats of one another. Prereq: ACT math subscore of 18 or higher, or Math Placement Level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in Math 090; or (c) grade of D in Math 094.

115 Precalculus. 4 cr. U. Essential topics from college algebra and trigonometry for students intending to enroll in calculus. Repeats 2 cr of Math 116 & 2 cr of Math 117. Prereq: Math Placement Level AB.

115 (effective 09/04/2018) Precalculus. 4 cr. U. Essential topics from college algebra and trigonometry for students intending to enroll in calculus. Repeats 2 cr of Math 116 & 2 cr of Math 117. Prereq: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in Math 105, 108, or 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.

116 (effective 09/04/2018) College Algebra. 3 cr. U. Function concepts. Polynomial, rational, exponential, and logarithmic functions. Systems of equations and inequalities. Matrices and determinants. Sequences and series. Analytic geometry and conic sections. Induction. 2 cr may be used to repeat 2 cr of Math 115. Prereq: Math Placement Level 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in Math 094, 095, or 098; (c) ACT math subscore of 24 or higher.

116 College Algebra. 3 cr. U. Function concepts. Polynomial, rational, exponential, and logarithmic functions. Systems

of equations and inequalities. Matrices and determinants. Sequences and series. Analytic geometry and conic sections. Induction. |2 cr may be used to repeat 2 cr of Math 115. Prereq: math placement level B.

117 Trigonometry. 2 cr. U. Trigonometric functions; graphs, identities, equations, inequalities; inverse trigonometric functions; solutions of triangles with applications; complex numbers; polar coordinates. |Repeats 2 cr of Math 115. Prereq: math placement level B.

117 (effective 09/04/2018) Trigonometry. 2 cr. U. Trigonometric functions; graphs, identities, equations, inequalities; inverse trigonometric functions; solutions of triangles with applications; complex numbers; polar coordinates. |Repeats 2 cr of Math 115. Prereq: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in Math 105, 108, or 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e)

175 (effective 09/04/2018) Mathematical Explorations for Elementary Teachers I. 3 cr. U. Theory of arithmetic of whole numbers, fractions, and decimals. Introduction to algebra, estimation and problem-solving strategies. |Prereq: Registration in elementary, early childhood, or exceptional educ curriculum; either a grade of C or better in Math 102 or 103, or Math Placement Level at least 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in Math 094, 095, 098; (c) ACT math subscore of 24 or higher.

175 Mathematical Explorations for Elementary Teachers I. 3 cr. U. Theory of arithmetic of whole numbers, fractions, and decimals. Introduction to algebra, estimation and problem-solving strategies. |Prereq: Math placement level A, AB, B, or C & regis in elementary, early childhood, or exceptional educ curric.

176 Mathematical Explorations for Elementary Teachers II. 3 cr. U. A continuation of Math 175 in geometry, statistics, and probability. |Prereq: grade of C or better in Math 175(P).

194 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Regularly offered courses may not be taken as Independent Study. |May be retaken w/chg in topic to 9 cr max. Prereq: 2.5 gpa in all previous math courses; writ cons instr, dept chair & asst dean for SAS.

205 Introductory Finite Mathematics. 3 cr. U. Elements of mathematical logic, structures in sets; partitions and counting; probability theory, stochastic processes. |Prereq: math placement level B.

205 (effective 09/04/2018) Introductory Finite Mathematics. 3 cr. U. Elements of mathematical logic, structures in sets; partitions and counting; probability theory, stochastic processes. |Prereq: math placement level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in Math 105, 108, or 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.

211 Survey in Calculus and Analytic Geometry. 4 cr. U. A one-semester survey with applications to business administration, economics, and non-physical sciences. Topics include coordinate systems, equations of curves, limits, differentiation, integration, applications. |May not be used as a prereq for Math 232. No cr for students with cr in Math 213, 221, or 231. Prereq: math placement level B.

211 (effective 09/04/2018) Survey in Calculus and Analytic Geometry. 4 cr. U. A one-semester survey with applications to business administration, economics, and non-physical sciences. Topics include coordinate systems, equations of curves, limits, differentiation, integration, applications. |May not be used as a prereq for Math 232. No cr for students with cr in Math 213, 221, or 231. Prereq: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35 or 36 on Math Placement Test; (b) grade of C or better in Math 105, 108, or 116; (c) score of 5 or h

213 Calculus with Life Sciences Applications. 4 cr. U. Limits, derivatives, graphing. Antiderivatives, the definite

integral, and the fundamental theorem of calculus. Additional techniques and applications pertinent to the life sciences throughout the course. No cr for students with cr in Math 221 or 231. Prereq: math placement level A.

213 (effective 09/04/2018) Calculus with Life Sciences Applications. 4 cr. U. Limits, derivatives, graphing. Antiderivatives, the definite integral, and the fundamental theorem of calculus. Additional techniques and applications pertinent to the life sciences throughout the course. No cr for students with cr in Math 221 or 231. Prereq: Math Placement Level 40, which is earned by any of the following: (a) Level 40 on Math Placement Test; (b) grade of C or better in Math 115; (c) grade of C or better in both Math 116 and Math 117; (d) grade of C or better in both Math 211 a

221 Honors Calculus I. 5H cr. U. Calculus of functions of one and several variables; sequences, series, differentiation, integration; introduction to differential equations; vectors and vector functions; applications. Max of 6 cr in combination of Math 221 & 222 may count toward Honors College reqs. Prereq: math placement level A+; cons instr or Honors College dir.

221 (effective 09/04/2018) Honors Calculus I. 5H cr. U. Calculus of functions of one and several variables; sequences, series, differentiation, integration; introduction to differential equations; vectors and vector functions; applications. Max 6 cr in combination of Math 221 & 222 may count toward Honors College requirements. Prereq: cons instr or Honors College Director; Math Placement Level 45, earned by any of: (a) Level 45 Math Placement Test; (b) Level 40 Math Placement Test & ACT math subscore 30 or higher; (c) score of 4 or 5 on AP AB calculu

222 Honors Calculus II. 5H cr. U. Continuation of Math 221. Max of 6 cr in combination of Math 221 & 222 may count toward Honors College reqs. Prereq: C or better in Math 221(P) or B or better in Math 232(P); cons instr.

231 Calculus and Analytic Geometry I. 4 cr. U. Limits, derivatives, and graphs of algebraic, trigonometric, exponential, and logarithmic functions; antiderivatives, the definite integral, and the fundamental theorem of calculus, with applications. No cr for students with cr in 213. Prereq: math placement level A.

231 (effective 09/04/2018) Calculus and Analytic Geometry I. 4 cr. U. Limits, derivatives, and graphs of algebraic, trigonometric, exponential, and logarithmic functions; antiderivatives, the definite integral, and the fundamental theorem of calculus, with applications. No cr for students with cr in Math 213. Prereq: Math Placement Level 40, which is earned by any of the following: (a) Level 40 on Math Placement Test; (b) grade of C or better in Math 115; (c) grade of C or better in both Math 116 and Math 117; (d) grade of C or better in both Math 211 and Math 117

232 Calculus and Analytic Geometry II. 4 cr. U. Continuation of Math 231. Applications of integration, techniques of integration; infinite sequences and series; parametric equations, conic sections, and polar coordinates. Prereq: grade of C or better in Math 231(P) or grade of B or better in Math 213(P).

233 Calculus and Analytic Geometry III. 4 cr. U. Continuation of Math 232. Three-dimensional analytic geometry and vectors; partial derivatives; multiple integrals; vector calculus, with applications. Counts as repeat of Math 229. Prereq: grade of C or better in Math 232(P).

234 Linear Algebra and Differential Equations. 4 cr. U. Elementary differential equations. Vectors; matrices; linear transformations; quadratic forms; eigenvalues; applications. No cr for students with cr in Math 240. Prereq: grade of C or better in Math 232(P).

234 (effective 09/04/2018) Linear Algebra and Differential Equations. 4 cr. U. Elementary differential equations. Vectors; matrices; linear transformations; quadratic forms; eigenvalues; applications. Prereq: grade of C or better in Math 232(P).

240 Matrices and Applications. 3 cr. U. Vectors, vector spaces, systems of linear equations, matrices, determinants, linear transformations, diagonalization, eigenvalues, eigenvectors; selected topics from quadratic forms, difference equations, numerical methods, and applications. No cr for students with cr in Math 234. Prereq: Math placement level A or grade of C or better in a Math or MthStat course numbered 200 or higher.

240 (effective 09/04/2018) Matrices and Applications. 3 cr. U. Vectors, vector spaces, systems of linear equations, matrices, determinants, linear transformations, diagonalization, eigenvalues, eigenvectors; selected topics from quadratic forms, difference equations, numerical methods, and applications. |Prereq: Grade at least C in a Math or MthStat course numbered 200 or higher OR Math Placement Level 40, earned by any of: Level 40 Math Placement Test; grade at least C in Math 115; grade at least C in Math 116 & 117; grade at least C in Math 211 & 117; grad

275 Problem Solving/Critical Thinking for Elementary Education Majors. 3 cr. U. Course provides a strong foundation in the exploration, teaching and communication (oral and written) of mathematical concepts via problem-solving experiences and discussion. |Prereq: grade of C or better in Math 175(P) or cons instr.

276 Algebraic Structures for Elementary Education Majors. 3 cr. U. Topics for K-8 teachers. Basic patterns and rules that govern number systems, geometric transformations, and manipulation of algebraic expressions. |Counts as repeat of Math 299 w/same topic. Prereq: grade of C or better in Math 175(P) or cons instr.

277 Geometry for Elementary Education Majors. 3 cr. U. Topics for K-8 teachers. Geometry as measuring tool-congruence, similarity, area, volume, and coordinates; geometry as axiomatic system-definitions, conjectures, proofs, counterexamples; rigid motions, symmetry. |Prereq: grade of C or better in Math 176(P) or cons instr.

278 Discrete Probability and Statistics for Elementary Education Majors. 3 cr. U. Random experiments; histograms; sample spaces; equally likely outcomes for random experiments; permutations; combinations; binomial, geometric, hypergeometric distributions; expectation; conditional probabilities; max likelihood estimation & inference. |Math 278 and MthStat 278 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in Math 176(P) or cons instr.

290 Topics in Mathematics: (Subtitled). 3 cr. U. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered. |May be retaken w/chg in topic to 9 cr max. Prereq: satisfaction of Quantitative Literacy Part A GER.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

305 Introduction to Mathematical and Computational Modeling. 3 cr. U/G. Construction and analysis of discrete and continuous mathematical models in applied, natural, and social sciences. Elements of programming, simulations, case studies from scientific literature. |Counts as repeat of Math 690(675) w/topic Adv Math Models with Apps. Prereq: jr st; grade of C or better in Math 211(P) & one add'l 200-level or higher Math or MthStat course, or grade of B or better in Math 213(P), or grade of C or better in Math 231(P), or cons instr.

311 Theory of Interest. 4 cr. U. Interest theory: annuities, amortization schedules, portfolio immunization. Financial derivatives: bonds, forwards, options. Topics consistent w/syllabus of SOA Financial Mathematics Exam. |Prereq: grade of C or better in Math 232(P).

313 Linear Programming and Optimization. 3 cr. U/G. Primal and dual formulations of linear programming problems; simplex and related methods of solution; algorithms for transportation; optimization. |Prereq: jr st; grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.

315 (314) Mathematical Programming and Optimization. 3 cr. U/G. Introduction to operations research. Network analysis; integer programming; game theory; nonlinear programming; dynamic programming. |Prereq: jr st, grade of C or better in either Math 234(P) or 240(P), & grade of C or better in either Math 211(P) or 233(P); or cons instr; or grad st.

318 Topics in Discrete Mathematics. 3 cr. U. Number theory topics related to cryptography; discrete structures including graphs, partial orders, Latin squares and block designs; advanced counting techniques. Jointly offered with & count as repeat of CompSci 318. Prereq: a grade of C or better in CompSci 317(P) or Math 341(P).

320 Introduction to Differential Equations. 3 cr. U/G. Elementary types and systems of differential equations, series solutions, numerical methods, Laplace transforms, selected applications. No grad cr in Math Sci. Prereq: jr st, grade of C or better in both Math 232(P) & 240(P), or grade of C or better in Math/ElecEng 234(P); or grad st.

321 Vector Analysis. 3 cr. U/G. Topics selected from vector algebra; scalar and vector fields; line, surface, and volume integrals; theorems of Green, Gauss, and Stokes; vector differential calculus. Prereq: jr st, grade of C or better in Math 233(P); or grad st.

322 Introduction to Partial Differential Equations. 3 cr. U/G. Partial differential equations of mathematical physics, boundary value problems in heat flow, vibrations, potentials, etc. Solved by Fourier series; Bessel functions and Legendre polynomials. Prereq: jr st, Math 320(P), & grade of C or better in Math 233(P); or grad st.

341 (effective 09/04/2018) Seminar: Introduction to the Language and Practice of Mathematics. 3 cr. U. Facility with mathematical language and method of conjecture, proof and counter example, with emphasis on proofs. Topics: logic, sets, functions and others. Prereq: Math Placement Level 40, which is earned by any of the following: (a) Level 40 on Math Placement Test; (b) grade of C or better in Math 115; (c) grade of C or better in both Math 116 and Math 117; (d) grade of C or better in both Math 211 and Math 117; (e) grade of C or better in Math 116 and Level 36 on Math Placement Test; (f) grad

341 Seminar: Introduction to the Language and Practice of Mathematics. 3 cr. U. Goal: facility with mathematical language and method of conjecture, proof and counter example, with emphasis on proofs. Topics: logic, sets, functions and others. Prereq: math placement level A.

345 Mathematics from a Historical Perspective: (Subtitled). 3 cr. U. Topics from the development of mathematics, such as famous problems, mathematicians, calculating devices; chronological outlines. Significant reading and writing assignments. May be retaken w/chg in topic to 9 cr max. Add'l prereqs announced in SOC each offering. Prereq: Grade of C or better in Math 232(P); satisfaction of OWC-A.

371 Introduction to Stochastic Models in Finance. 3 cr. U/G. Elementary modeling of financial instruments for students in mathematics, economics, business, etc. Statistical and stochastic tools leading to the Black-Scholes model. Real data parameter fitting. Prereq: jr st & one of the following pairs; Econ 413(431)(P) & 506(P), Bus Adm 210(P) & 350(P), Bus Adm 701(P) & 702(P), or Math 234(P) & MthStat 361(P), or cons instr; or grad st.

381 Honors Seminar: (Subtitled). 3H cr. U. Significant topics to illustrate to non-mathematicians the characteristic features of mathematical thought. Only H.S. algebra and geometry assumed. May be retaken w/chg in topic to 9 cr max. Not open for cr toward a major in Math. Prereq: soph st; Honors 200(P); cons Honors College dir.

405 Mathematical Models and Applications. 3 cr. U/G. Modeling techniques for analysis and decision-making in social and life sciences and industry. Deterministic and stochastic modeling. Topics may vary with instructors. Prereq: jr st; one of: grade of C or better in Math 211(P), grade of B or better in Math 213(P), or grade of C or better in Math 231(P); & grade of C or better in either Math/ElecEng 234(P) or Math 240(P); or grad st.

413 Introduction to Numerical Analysis. 3 cr. U/G. Root finding and solution of nonlinear systems; direct solution of linear systems; interpolation & approximation of functions; least squares; fast Fourier transform; quadrature. Prereq: jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.

415 Introduction to Scientific Computing. 3 cr. U/G. Nonlinear systems; iterative solution of linear systems; initial value problems in ordinary differential equations; boundary value problems in ordinary and partial differential equations. Prereq: jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.

417 (416) Computational Linear Algebra. 3 cr. U/G. Direct solution of linear systems; iterative solution of linear systems; least squares; eigenvalue problems.|Prereq: jr st & grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.

423 (623) Complex Analysis. 3 cr. U/G. Complex numbers; definition and properties of analytic functions of a complex variable; conformal mapping; calculus of residues; applications to mathematics and physics. See also Math 713.|Prereq: jr st; grade of C or better in Math 233(P); or grad st.

431 Modern Algebra with Applications. 3 cr. U/G. Groups, rings, fields, Boolean algebras with emphasis on their applications to computer science and other areas.|Does not carry grad cr in math sci. Prereq: jr st & grade of C or better in Math 232(P); or grad st.

451 Axiomatic Geometry. 3 cr. U/G. An axiomatic approach to Euclidean and non-Euclidean geometry (historic role of the parallel postulate and models).|Dept cons req'd for grad cr in math sci. Prereq: jr st, grade of C or better in both Math 341(P) & Math 232(C); or grad st.

453 Transformations in Geometry. 3 cr. U/G. Selected topics from vector geometry and geometric transformations such as the study of invariants and conics.|Recom for secondary school teachers. Dept cons req'd for grad cr in math sci. Prereq: jr st, grade of C or better in both Math 341(P) & Math 232(C); or grad st.

489 Internship in Mathematics, Upper Division. 1-6 cr. U. Application of advanced principles of mathematics in a business, organizational, educational, governmental, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 6 cr 300-level or above in math or math stats; 2.5 gpa in the major; cons supervising faculty member.

490 Topics in Mathematics: (Subtitled). 3 cr. U/G. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered. May be retaken w/chg in topic to 9 cr max.|Prereq: jr st; grade of C or better in a Math or MthStat course at the 200 level or above; or grad st.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

511 Symbolic Logic. 3 cr. U/G. First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.|CompSci 511, Math 511 & Philos 511 are jointly offered; they count as repeats of one another. Prereq: jr st & either Philos 212(P) or 6 cr in math at the 300-level or above.

521 Advanced Calculus I. 3 cr. U/G. Fundamental notions of sets and functions; limits, continuity; Riemann integral, improper integral; infinite series; uniform convergence; power series; improper integrals with a parameter.|Prereq: jr st; grades of C or better in Math 232(P) & 341(P); or grad st.

522 Advanced Calculus II. 3 cr. U/G. Linear functions; differentiation of functions of several variables (implicit functions, Jacobians); change of variable in multiple integrals; integrals over curves, surfaces; Green, Gauss, Stokes theorems.|Prereq: jr st, Math 521(P), grade of C or better in Math 233(P), & grade of C or better in either Math 234(P) or 240(P); or grad st.

531 Modern Algebra. 3 cr. U/G. Integers; groups; rings; fields; emphasis on proofs.|Prereq: jr st; grade of C or better in Math 341(P).

535 Linear Algebra. 3 cr. U/G. Vector spaces; linear transformations and matrices; characteristic values and vectors; canonical forms; bilinear, quadratic, and Hermitian forms; selected applications.|Prereq: jr st, grade of C or better in either Math 234(P) or 240(P), & grade of C or better in Math 341(P); or grad st.

537 Number Theory. 3 cr. U/G. Number theoretic functions; distribution of primes; Diophantine approximation; partitions; additive number theory; quadratic reciprocity.|Prereq: jr st, grade of C or better in both Math 232(P) & 341(P); or grad st.

551 Elementary Topology. 3 cr. U/G. General theory of point sets in Euclidean spaces, with emphasis on topology of two-dimensional and three-dimensional spaces; elementary notions of metric spaces; applications.|Prereq: jr st; grades of C or better in Math 233(P) & 341(P); or grad st.

553 Differential Geometry. 3 cr. U/G. The theory of curves and surfaces by differential methods.|Prereq: jr st, grade of C or better in all of Math 233(P), 234(P) & 341(P); or grad st.

571 Introduction to Probability Models. 3 cr. U/G. Probability review, Markov chains in discrete and continuous time. Random walks, branching processes, birth and death processes. Queuing theory. Applications to physical sciences, engineering, mathematics.|Prereq: jr st; grade of C or better in Math 233(P); grade of C or better in Math/ElecEng 234(P) or in both Math 240(P) & 320(P); & one calculus-based course in statistics or probability at the 300 level or above; or grad st.

575 High School Mathematics from an Advanced Viewpoint. 3 cr. U/G. Number systems; algebra of polynomials; theory of equations; functions; modeling; geometric measurement; geometric transformations; connections between advanced mathematics and high school topics.|Counts as repeat of Math 690(675) w/similar topic. Prereq: jr st, either Math 451(P) or 453(P), & either Math 431(P) or 531(P); or cons instr; or grad st.

581 Introduction to the Theory of Chaotic Dynamical Systems. 3 cr. U/G. Iterated mappings, one parameter families, attracting and repelling periodic orbits, topological transitivity, Sarkovski's theorem, chaos, bifurcation theory, period doubling route to chaos, horseshoe maps, attractors.|Prereq: jr st & Math 521(P), 529(P) or 621(P), or cons instr; or grad st.

591 Undergraduate Seminar: (Subtitled). 1 cr. U. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.|May be retaken w/chg in topic to 4 cr max. Prereq: jr st; cons instr.

599 Capstone Experience. 1 cr. U. Student writes a paper under supervision of an advisor on an approved topic not covered in the student's regular course work.|May be retaken w/chg in topic to 2 cr max. Prereq: sr st; cons instr.

601 Advanced Engineering Mathematics I. 3 cr. U/G. Sequences and series, elementary complex analysis; Fourier series; linear and nonlinear ordinary differential equations; matrix theory, elementary functional analysis; elementary solution of partial differential equations.|Prereq: jr st; grade of C or better in both of Math 233(P) and Math/ElecEng 234(P); 3 cr Math at 300-level or above; or cons instr; or grad st.

602 Advanced Engineering Mathematics II. 3 cr. U/G. Continuation of Math 601. Partial differential equations, Fourier and Laplace transforms, convolutions, special functions, mathematical modeling.|Prereq: jr st; Math 601(P).

615 Numerical Solution of Partial Differential Equations. 3 cr. U/G. Finite difference solution of elliptic boundary value problems and of evolution problems; solution of hyperbolic conservation laws; finite volume methods; finite element methods.|Prereq: jr st; Math 413(P), 415(414)(P), or 417(416)(P); Math 322(P) or 602(P); or cons instr.

617 Optimization. 3 cr. U/G. Unconstrained and constrained optimization: linear, nonlinear, and dynamic programming; barrier, penalty, and Lagrangian methods; Karush-Kuhn-Tucker theory, quadratic, and sequential quadratic programming; evolutionary algorithms.|Prereq: jr st; Math 321(P) or 602(P); or grad st or cons instr.

621 Introduction to Analysis I. 3 cr. U/G. Topology of Euclidean space; continuity; differentiation of real and vector-

valued functions; Riemann-Stieltjes integration. | Prereq: jr st: grades of C or better in Math 233(P), 341(P), & either 234(P) or 240(P); cons dept advisor; or grad st.

622 Introduction to Analysis II. 3 cr. U/G. Continues Math 621. Sequences and series of functions; uniform convergence; power series; functions of several variables; inverse and implicit function theorems; differential forms; Stokes' theorem. | Prereq: jr st; Math 621(P) or cons instr; or grad st.

631 Modern Algebra I. 3 cr. U/G. Group theory, including normal subgroups, quotients, permutation groups, Sylow's theorems, Abelian groups; field theory; linear algebra over general fields. | Prereq: jr st; grade of C or better in Math 341(P) & either Math 234(P) or 240(P); cons dept advisor; or grad st.

632 Modern Algebra II. 3 cr. U/G. Continuation of Math 631. Ring theory, including ideals, quotient rings, Euclidean rings, polynomial rings, unique factorization; modules, including vector spaces, linear transformations, canonical forms; bilinear forms. | Prereq: jr st; Math 631(P) or cons instr; or grad st.

690 (675) Topics in Mathematics: (Subtitled). 3 cr. U/G. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st, at least one U/G Math or MthStat course; cons instr; or grad st.

699 Independent Reading. 1-3 cr. U. See Advanced Independent Study. For further information, consult dept chair. | May be retaken w/chg in topic. Prereq: jr st; 2.5 gpa, & writ cons instr, dept chair, & asst dean for SAS.

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MTHSTAT Mathematical Statistics

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194 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshman. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. | May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

215 Elementary Statistical Analysis. 3 cr. U. Elementary probability theory; descriptive statistics; sampling distributions; basic problems of statistical inference including estimation; tests of statistical hypothesis in both one- and two- sample cases. | Prereq: satisfaction of Quantitative Literacy Part A GER.

278 Discrete Probability and Statistics for Elementary Education Majors. 3 cr. U. Random experiments; histograms; sample spaces; equally likely outcomes for random experiments; permutations; combinations; binomial, geometric, hypergeometric distributions; expectation; conditional probabilities; max likelihood estimation & inference. | Math 278 and MthStat 278 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in Math 176(P) or cons instr.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

361 Introduction to Mathematical Statistics I. 3 cr. U/G. Probability spaces; discrete and continuous, univariate and multivariate distributions; moments; independence, random sampling, sampling distributions; normal and related distributions; point and interval estimation. | Not recom for grad students in math, or students not planning to take MthStat 362. Prereq: jr st; Math 233(P).

362 Introduction to Mathematical Statistics II. 3 cr. U/G. Testing statistical hypothesis; linear hypothesis; regression; analysis of variance and experimental designs; distribution-free methods; sequential methods. | Not recom for grad students in math. Prereq: jr st; MthStat 361(P).

461 Data Analysis and Graphing Using SAS-I. 2 cr. U. Introduction to SAS language programming. Procedures for handling raw data, SAS data, and parametric and nonparametric univariate data analysis; procedures for graphical

display. Offered first half of sem. | Does not count toward math sci major. Prereq: MthStat 215(P), 362(P), 465(P), 467(P), Bus Adm 210(P), or Econ 210(P).

462 Data Analysis and Graphing Using SAS-II. 2 cr. U/G. Continuation of MthStat 461. Procedures GLM, LIFEREG, LIFETEST, LOGISTIC, PROBIT and advanced GRAPHING. Offered second half of sem. | U cr does not count toward math sci major. Prereq: jr st; MthStat 461(P) or cons instr.

465 Introductory Mathematical Statistics for Social Sciences and Education. 3 cr. U/G. Probability distributions; parameter estimation and confidence intervals; hypothesis testing; applications. | Not open for cr to students w/cr in MthStat 467, 362, or for grad cr in math. Not open for cr toward major in math except in School of Education. Prereq: jr st; Math 211(P) or 232(P).

467 Introductory Statistics for Physical Sciences and Engineering Students. 3 cr. U/G. Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing, parameter estimation; experimental design; regression analysis. | Not open for cr for Math majors or students with cr in MthStat 362 or 465. Prereq: jr st; Math 233(P).

469 Biostatistics. 3 cr. U/G. Simple distributions, estimation and hypothesis testing, simple regression, analysis of variance, nonparametric methods in biology. Demography and vital statistics and bioassay and clinical trials. | Not allowed as part of core curric for Math majors. Not open for cr to students with cr in MthStat 569 & not open for grad cr in Math. Prereq: jr st; an elementary stats course.

489 Internship in Mathematical Statistics, Upper Division. 1-6 cr. U. Application of advanced principles of mathematical statistics in a business, organizational, educational, governmental, or other appropriate setting. | One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: jr st; 6 cr 300-level or above in Math or MthStat; 2.5 gpa in the major; cons supervising faculty member.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

562 Design of Experiments. 3 cr. U/G. Latin squares; incomplete block designs; factorial experiments; confounding; partial confounding; split-plot experiments; fractional replication. | Prereq: jr st; MthStat 362(P); Math 234(P) or 240(P).

563 Regression Analysis. 3 cr. U/G. Straight line, polynomial and multiple regression; multiple and partial correlation; testing hypotheses in regression; residual analysis. | Prereq: jr st; MthStat 467(P) or 362(P).

564 Time Series Analysis. 3 cr. U/G. Autocorrelation; spectral density; linear models; forecasting; model identification and estimation. | Prereq: jr st; MthStat 362(P).

565 Nonparametric Statistics. 3 cr. U/G. Sign, rank and permutation tests; tests of randomness and independence; methods for discrete data and zeroes and ties; power and efficiency of nonparametric tests. | Prereq: jr st; MthStat 362(P).

566 Computational Statistics. 3 cr. U/G. Basics of programming and optimization techniques; resampling, bootstrap, and Monte Carlo methods; design and analysis of simulation studies. | Prereq: jr st; MthStat 362(P) or cons instr.

568 Multivariate Statistical Analysis. 3 cr. U/G. Multivariate normal distribution; Wishart distribution; Hotelling's T₂; multivariate normal distribution; multivariate analysis of variance; classification problems. | Prereq: jr st; MthStat 362(P); Math 234(P) or 240(P).

591 Foundations of Professional Practice in Actuarial Science. 1 cr. U. Lecture and discussions on professional topics such as health, pension, life, casualty, regulation. | May be retaken for cr once. Prereq: completion of actuarial sci prep curric or cons instr.

592 Actuarial Science Laboratory I: Probability, Finance, and Economics. 1 cr. U. Fundamental probability tools for quantitatively assessing risk integrated with economic and financial concepts; application of tools to actuarial problems; introduction to insurance and risk management. | Prereq: C or better in MthStat 361(P) or cons instr.

593 Actuarial Science Laboratory II: Interest Theory, Finance, and Economics. 1 cr. U. Fundamental interest theory tools integrated with economic and financial concepts; financial mathematics; financial instruments; calculating present and accumulated values for various streams of cash flow. | Prereq: C or better in Math 311(P) or cons instr.

596 Actuarial Statistics I: Fitting of Loss Models. 3 cr. U/G. Statistical modeling of insurance data. Model specification, fitting and validation. Measures of confidence for model-based decisions. | Prereq: jr st; B- or better in each Math 234(P) and MthStat 362(P); CompSci 151(P) or 201(P); or cons instr.

597 Actuarial Statistics II: Credibility, Risk Measures and Related Topics. 3 cr. U/G. Statistical techniques for insurance data. Credibility and ratemaking. Risk measures. Dependent risks and copulas. Simulations. | Prereq: jr st; B- or better in each Math 234(P) and MthStat 362(P); CompSci 151(P) or 201(P); or cons instr.

691 Actuarial Models I: Life Contingencies. 3 cr. U/G. Modeling and valuation of cash flows dependent on death, survival and other random events. Survival models for single and multiple risks. Life insurances and annuities. | Prereq: jr st; B- or better in each Math 571(P) and Math 311(P); or cons instr.

692 Actuarial Models II: Financial Economics. 3 cr. U/G. Modeling and managing of financial risks. Interest rate models. Valuation of derivatives securities. Risk management. | Prereq: jr st; B- or better in each Math 571(P) and Math 311(P); or cons instr.

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MECHENG Mechanical Engineering

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101 Computational Tools for Engineers. 2 cr. U. Introduction to the use of spreadsheets and equation solvers. Basic engineering and financial applications using these tools.|Prereq: Math 231(C) or 221(C).

110 Engineering Fundamentals I. 4 cr. U. Introduction to engineering disciplines, problem-solving, visualization, technical communication, and data collection and analysis.|Prereq: Math 231(C) or Math 225(C), admis to College of Engineering & Applied Science.

111 Engineering Fundamentals II. 4 cr. U. Intermediate problem-solving skills, experimentation, technical communication and introduction to engineering design.|Prereq: MechEng 110(P).

150 How Things Work: Understanding Technology. 3 cr. U. An introductory course that explains the technology that affects our everyday life. Topics include: automobiles, computers, telephone, radio, television, etc.|Prereq: none.

301 Basic Engineering Thermodynamics. 3 cr. U. Basic energy concepts and definitions; First and Second Laws of Thermodynamics; ideal and real gases; thermodynamic properties; introductory cycle analysis.|Prereq: Math 233(P) & Physics 209(P).

302 (effective 09/04/2018) Analysis and Modeling of Dynamic Systems. 4 cr. U. Modeling and analysis of mechanical, electrical, electromechanical, fluid, and physiological systems; laboratory experiments.|Jointly offered with & counts as repeat of BME 302. Prereq: MechEng 101(P), ElecEng 234(P), and Physics 210(P).

320 Introduction to Fluid Mechanics. 3 cr. U. Basic law of fluid mechanics with applications to engineering problems and with laboratory demonstrations.|Prereq: MechEng 301(C); ElecEng 234(P) & Civ Eng 202(P).

321 Basic Heat Transfer. 4 cr. U. Introduction to conduction, convection and radiation heat transfer; heat exchangers; mass transfer analogies; laboratory experiments.|Prereq: jr st; MechEng 301(P).

323 Fluid Mechanics Laboratory. 1 cr. U. Hands-on experiments involving applications of potential flows, boundary layer flows, gas dynamics, aerodynamics, and fluid power.|Prereq: jr st; MechEng 320(P).

360 Mechanical Design I. 3 cr. U. Kinematic and dynamic analysis of machine members and design applications to linkages, cams, gears, machine balancing and mechanical systems subject to various constraints.|Prereq: MechEng

101(P),111(P); & Civ Eng 202(P).

366 Design of Machine Elements. 4 cr. U. Design of mechanical components under steady and fatigue loads. Design of columns, shafts, fasteners, springs, bearings, gearing, etc. Mini-design projects.|Prereq: MechEng 101(P),111(P); MatlEng 201(P); & Civ Eng 303(P).

370 Computer Aided Engineering Laboratory. 2 cr. U. Mechanical design and analysis using state of the art CADD, kinematics, and FEA computer tools.|Prereq: MechEng 101(P) & 111(P);Civ Eng 202(P) & 303(P); & ElecEng 234(P).

402 Thermo-Fluid Engineering. 3 cr. U. Analysis and design of systems involving applications of thermodynamics, heat transfer, and fluid mechanics. Applications include heat exchangers, power generation, refrigeration systems, and environmental control.|Prereq: MechEng 320(P) & 321(P).

405 Product Realization. 3 cr. U/G. This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process.|Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Prereq: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.

411 Heat Transfer. 3 cr. U/G. Concepts of heat transfer including conduction, convection, and radiation; steady-state and transient conduction; laminar and turbulent convection; phase changes; black-body and real surface radiation; heat exchangers.|Prereq: jr st; MechEng 321(P).

415 Modern Thermomanufacturing Processes. 3 cr. U/G. An introduction to thermal management and techniques applied to chemical vapor deposition, welding, thermal spraying, and machining (cutting and grinding).|Prereq: jr st; Civ Eng 303(P), Mecheng 321(P) or equiv, or cons instr.

420 Intermediate Fluid Mechanics. 3 cr. U/G. Navier-Stokes Equations; CFD package training; Potential Flows; Boundary-Layer Approximation; Turbulent Flows; Porous-Media Flows, Turbomachinery Flows.|Prereq: jr st; MechEng 320(P).

423 Applied Fluid Mechanics. 3 cr. U/G. Principles of fluid mechanics as applied to elements of fluid machinery, power transmission devices and control systems.|Prereq: jr st; MechEng 320 (P).

425 Aerodynamics of Wind Turbines. 3 cr. U/G. Introductory and intermediate wind turbine aerodynamics; wind and wind turbine interaction in energy transmission.|Prereq: jr st; MechEng 320(P) or cons instr.

430 Energy Modeling. 3 cr. U/G. Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software.|Jointly offered with and counts as repeat of ElecEng 430. Prereq: jr st; or cons instr.

432 Internal Combustion Engines. 3 cr. U/G. Thermodynamic principles of internal combustion engines; cycles, combustion, engine operation; carburation, ignition, performance analysis; engine balancing; super charging.|Prereq: jr st; MechEng 301 (P).

434 Air Conditioning System Design. 3 cr. U/G. The design of systems for heating and cooling spaces. Selection and design of central heating, cooling and energy distribution systems.|Prereq: jr st; MechEng 321(P), Ind Eng 210(P).

435 Power Plant Theory and Design. 3 cr. U/G. Application of engineering principles to design and analysis of power-production systems. Fossil fuel, nuclear, and gas-turbine power plants. Alternative power generation. Environmental aspects.|Prereq: jr st; MechEng 301(P).

436 Solar Engineering. 3 cr. U/G. Estimation of energy needs for solar heating and cooling systems for buildings; insolation; solar collector/energy storage design; applications to space heating/cooling, water heating.|Prereq: jr st; MechEng 301 (P).

438 Mechanical Engineering Experimentation. 3 cr. U. Training and understanding data acquisition systems; experiment planning; sensor calibration; professional report writing and communication; industrial projects. |Prereq: sr st or cons instr; ElecEng 301(P); Ind Eng 467 or MthStat 467(P); MechEng 321(P), 360(P), 366(P).

451 Applied Optics in Engineering. 3 cr. U/G. Principles of geometric and physical optics. Introduction to lasers. Topics from current engineering uses of optics, including measurement systems and laser machining. |Prereq: sr st; Physics 210(P) or cons instr.

455 Processing of Plastics. 3 cr. U/G. Description of plastics as polymers and polymer composites. Study of various technologies to manufacture plastics. Analytical description of flow and heat transfer in polymers. |Prereq: MechEng 320(P) & 321(P).

456 Metal Casting Engineering. 3 cr. U/G. Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design. |MechEng 456 and MatlEng 456(421) are jointly offered; they count as repeats of one another. Prereq: jr st; MatlEng 201(P).

457 Engineering Composites. 3 cr. U/G. Study of the structure-property relationships in composite materials. Properties of fibers and other reinforcements. Metal, polymer and ceramic matrix composites. |MechEng 457 and MatlEng 457(455) are jointly offered; they count as repeats of one another. Prereq: jr st; MatlEng 201(P).

460 Nanomaterials and Nanomanufacturing. 3 cr. U/G. Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology. |MechEng 460 & MatlEng 460 are jointly offered; they count as repeats of each other. Prereq: jr st; MatlEng 201(P).

462 Intermediate Design of Machinery. 3 cr. U/G. Consideration of complicated loadings and combined stresses. Design against fatigue. Design and analysis of machine systems. Consideration of special topics in machine element design. |Prereq: jr st; MechEng 366(P).

463 Introduction to Finite Elements. 3 cr. U/G. Generation and assembly of finite element matrices in one and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow. |Not open to students with cr in Civ Eng 463(ER). Prereq: jr st; ElecEng 234(P), Civ Eng 303(P); MechEng 320(C), 311(C) or 321(C).

465 Friction and Wear. 3 cr. U/G. Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement. |Not open to students who have cr in MatlEng 465, which is identical to MechEng 465. Prereq: jr st; MatlEng 201(P).

466 Mechanics of Composite Materials. 3 cr. U/G. Basic concepts, materials, and characteristics of composites. Micromechanics and Macromechanics of Elastic Response. Failure, design and optimization of composite structures. |MechEng 466 & Civ Eng 466 are jointly offered; they count as repeats of one another. Prereq: jr st & Civ Eng 303(P)

469 Introduction to Biomechanical Engineering. 3 cr. U/G. Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine. |MechEng 469 & Civ Eng 469 are jointly offered and count as repeats of one another. Prereq: Civ Eng 202(P) & 303(P); or cons instr.

472 Introduction to Wind Energy. 3 cr. U/G. Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection. |MechEng 472 & ElecEng 472 are jointly offered; they count as repeats of one another. Prereq: jr st; or cons instr.

473 Applied Dynamics. 3 cr. U/G. Application of dynamic principles to a variety of engineering situations. Behavior

of particle systems and rigid body motion in space. Analysis of traffic accidents, shock machines, rockets and satellites, missiles and projectiles, dynamic balancing, gyroscopes and inertial navigation. |Prereq: jr st & Civ Eng 202(P).

474 Introduction to Control Systems. 4 cr. U/G. Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains. |Prereq: sr st; ElecEng 301(P); a grade of C or better in ElecEng 234(P) & Civ Eng 202(P).

475 Vibrations in Mechanical Design. 3 cr. U/G. Integrated treatment of mathematical modeling and analysis of mechanical systems, analysis of vibrations and performance under different loading conditions. |Prereq: sr st; Civ Eng 202(P), ElecEng 234(P).

476 Introduction to Robotics. 3 cr. U/G. Fundamentals of manipulators, sensors, actuators, end-effectors and product design for automation, computer vision and pattern recognition. |Prereq: ElecEng 234(P), MechEng 360(P).

479 Control and Design of Mechatronic Systems. 3 cr. U/G. Understanding interfacing of mechanical systems using electro-mechanical components; conceptual design and analysis of high performance computer controlled mechanical systems; prototyping of mechatronic systems. |Prereq: sr st or cons instr; ElecEng 474(402)(P) or MechEng 474(P).

490 Topics in Mechanical Engineering: (Subtitled). 1-3 cr. U/G. Recent theoretical and applied topics in mechanical engineering. |May be retaken with change in topic to max of 9 cr. Prereq: jr st & cons instr.

495 Biomedical Instrumentation Laboratory. 3 cr. U. Characteristics of measurement systems, experiment planning, sensor and system calibration, measurement of basic quantities, first and second order systems, data acquisition and processing, experimental projects. |BME 495 and MechEng 495 are jointly offered and count as repeats of one another. Prereq: BME 325 (P), MechEng 469 (C).

496 Senior Design Project. 3 cr. U. Engineering design project in a simulated industrial environment. Student design team works on a problem in collaboration with college faculty and vendors. Formal report writing. |Prereq: MechEng 321(P), 360(P), 366(P), & 370(P).

542 Introduction to Technology Entrepreneurship. 3 cr. U. Introductory concepts related to technology entrepreneurship including opportunity identification, analysis and new venture planning. Prepares students to recognize and pursue viable technology-based entrepreneurial opportunities. |Counts as repeat of Bus Adm 495 or Mech Eng 490 with same topic. Jointly offered with & counts as repeat of Bus Adm 542. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.

543 Introduction to Technology Management and Innovation. 3 cr. U. Introductory concepts related to technology management and technological innovation. Prepares students to evaluate and plan technology commercialization projects. |Counts as repeat of Bus Adm 495 with same topic. Jointly offered with & counts as repeat of Bus Adm 543. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.

544 New Product Development. 3 cr. U/G. Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams. |Counts as repeat of Bus Adm 795 with same topic; Jointly offered with & counts as repeat of Bus Adm 544. Prereq: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.

546 Global Innovation Management. 3 cr. U/G. Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects. |Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of Bus Adm 546. Prereq: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.

548 Technology Venturing Project. 3 cr. U. A capstone course for students to demonstrate their knowledge and skills

related to technology/product commercialization. Prepares students to lead their (or corporate) technology ventures. |Jointly offered with & counts as repeat of Bus Adm 548. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major; Bus Adm/Mech Eng 542(P).

574 Intermediate Control Systems. 3 cr. U/G. State space; frequency domain methods of modeling, analysis and design of control systems; digital control; and multivariate systems. |ElecEng 574(503) & MechEng 574(478) are jointly offered & count as repeats of each other. Not open for cr to students who have cr in ElecEng 503(ER) or MechEng 503(ER). Prereq: sr st; Mecheng 474(P) or ElecEng 474(402)(P); or grad st.

584 Biodynamics of Human Motion. 3 cr. U/G. Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab. |Prereq: jr st; ElecEng 234(P); Civ Eng 202(C).

699 Independent Study. 1-3 cr. U/G. |Limited to max of 6 cr applied toward undergrad degree. Prereq: jr st; cons instr.

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MUSIC Music

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1 Theory Fundamentals. 2 cr. U. Basic music theory covering written proficiency at an introductory level. For music majors needing remedial work. Not for fulfillment of curriculum requirements. Prereq: Music major or cons instr.

30 University Band. 1 cr. U. A concert band which performs concerts on and off campus. Designed as a continuing playing experience for students. Music 30 & 31 may be retaken to combined max of 10 sem. Prereq: Music major.

40 Symphony Band. 1 cr. U. Performs symphonic works for band, performing regularly on campus, statewide tours and national conventions. Music 40 & 41 may be retaken to combined max of 10 sem. Prereq: Music major, audition; & cons instr.

42 Wind Ensemble. 1 cr. U. Performs music ranging from octet to forty players, stressing the single player per part concept, embracing a commitment to quality wind and percussion music. Presents concerts on campus and national tours. Music 42 & 43 'Wind Ensemble' may be retaken to combined max of 10 sem. Prereq: Music major; audition; & cons instr.

44 Women's Chorus. 1 cr. U. Large women's chorus rehearses and performs womens choral music of various styles, cultures, and historical periods. Open to all women by audition. Music 44 & 45 may be retaken to combined max of 10 sem. Prereq: Music major; cons instr; audition.

45 Women's Chorus. 3 cr. U. Large women's chorus rehearses and performs womens choral music of various styles, cultures, and historical periods. Open to all women by audition. Music 44 & 45 may be retaken to combined max of 10 sem. Prereq: non-Music majors; cons instr; audition.

50 University Men's Choir. 1 cr. U. Large men's mixed chorus rehearses and performs both mens and mixed-voice choral music of various styles, cultures, and historical periods. Voice placements 1st wk each sem. Music 50 & 350 may be retaken to combined max of 10 sem. Prereq: Music major; cons instr; audition.

52 University Advanced Women's Choir. 1 cr. U. Select women's mixed chorus performs both womens and mixed-voice choral music of various styles, cultures, and historical periods. For women with significant choral experience; audition required. Voice placements 1st wk each sem. Music 52 & 352(53) may be retaken to combined max of 10 sem. Prereq: Music major; cons instr; audition.

56 Concert Chorale. 1 cr. U. This highly select mixed ensemble performs advanced-level music from various styles, cultures, and historical periods and tours annually. Students chosen by competitive audition. | Music 56 may be retaken to combined max of 10 sem. Prereq: Music major; audition; & cons instr.

62 Gospel Choir. 1 cr. U. The gospel choir performs the music of the African-American culture in its many styles and genres. Auditions 1st week each sem. | May be retaken to max of 10 sem. Prereq: cons instr; audition.

81 University Community Orchestra. 2 cr. U. Composed primarily of non-music majors and community members; provides a continuing opportunity for rehearsal and performance. | Music 81 & 181 may be retaken to combined max of 10 sem. Prereq: non-music major.

100 Introduction to Classical Music. 3 cr. U. A guide to musical enjoyment and understanding, including listening experiences in the various styles and forms of music, through assigned reading, the use of recorded music, sound films and attendance at concerts. Not accepted as part of a Music major. | Prereq: none.

101 Fundamentals of Music. 3 cr. U. An activities approach to music fundamentals through singing, playing, listening, note reading and creativity for the general university student. | Not accepted as part of a Music major. Prereq: none.

102 American Popular Music. 3 cr. U. A guide to understanding and enjoying American popular music from 1900 to the present. Students survey all popular genres and focus on chosen style. | Prereq: none.

106 Foundations of Music. 0 cr. U. Engage music major freshman in active discussion in academic and abstract ways necessary to formal music study. | Fee for 1 cr assessed. Satisfactory/Unsatisfactory only. Prereq: Freshman Music Majors only.

107 Music Convocation. 0 cr. U. A general assembly of the Department of Music held Fridays at 12:00 pm during the academic year. Includes musical presentations by Music Department faculty and students as well as guest events. | Fee for 1 cr assessed. Satisfactory/Unsatisfactory only. Prereq: Music majors only.

108 The Concert Experience. 3 cr. U. Meets, in part, concurrently with the Music Department Convocation (or similar concerts), concentrates on the concert as an event: history, traditions, form, make-up, and interpretation. | May not be used as part of the music req for music majors. Prereq: none.

120 Composition Colloquium: (Subtitled). 0 cr. U. Guest lectures and workshops with visiting composers and performers presenting current compositional and aesthetic techniques. | Fee for 1 cr assessed. May be retaken; 4 sem minimum required for composition majors. Prereq: Music major or cons instr.

123 Aural Theory I. 1 cr. U. Basic study of sight singing and dictation in diatonic music: solfege, diatonic melodies, primary harmonies, basic rhythms and beat divisions. Aural application of Music 127. | Prereq: theory placement exam; Music major; Music 127(C) & Music 001(P) with grade of B or better or equiv.

124 Aural Theory II. 1 cr. U. The singing and dictation of melodies, progressions, and counterpoint with chromatic alteration, modulation, complex rhythmic patterns, 7th chords and inversions. Aural application of Music 128. | Prereq: Music Major; Music 128(C), 123(P) & 127(P) with grade of 'C-' or better or equiv.

127 Materials of Theory I. 2 cr. U. Basic study of the elements and diatonic organization of music through music literature. | Prereq: theory placement exam; Music major; Music 123 (C) & Music 001(P) with grade of 'C-' or better or equiv.

128 Materials of Theory II. 3 cr. U. Intermediate study of the elements and chromatic organization of music through music literature. | Prereq: Music Major; Music 124(C) & 123(P); & 127(P) with grade of 'C-' or better or equiv.

130 Beginning Piano Level I. 3 cr. U. A practical introduction to the piano and musical notation, intended to serve as a sound foundation for further study. | May be retaken to max of 6 cr. Prereq: none.

131 Beginning Piano Level II. 3 cr. U. The varying uses of the piano is continued and expanded through reading, technique, interpretation, and theory as based on materials presented in Music 130. | May be retaken to max of 6 cr. Prereq: Music 130(P); cons instr.

140 Class Voice Level I. 3 cr. U. The group study of singing, including posture, breathing, resonance, range and projection through vocal exercises, varied song repertoire and solo singing. | May be retaken to max of 4 cr. Prereq: some knowledge of music helpful but not required; cons instr.

141 Class Voice Level II. 3 cr. U. Continuation for students completing Class Voice Level I including vocal health, posture, breathing, phonation, resonance to include repertoire expansion of jazz, popular, folk and blues. | Prereq: Music 140(P), or cons instr; & ability to read notation.

142 Class Voice for Musical Theater Level I. 2 cr. U. Fundamentals of vocal technique, including audition preparation and understanding of Musical Theater repertoire and style. | Prereq: Musical Theatre majors; cons. instr.

143 Class Voice for Music Theatre Level II. 2 cr. U. Continuation of Class Voice for Musical Theatre Level I including vocal health, posture, breathing, phonation, resonance to include repertoire expansion of jazz, popular, folk and blues. | Prereq: Music 142(P), or cons instr.

150 Beginning Guitar. 3 cr. U. Beginning class instruction on guitar as an accompanying instrument for folk and pop songs. Basic chording, strumming, and finger picking. | May be retaken to max of 6 cr. Prereq: none.

151 Intermediate Guitar I. 3 cr. U. Intermediate instruction on guitar. Finger picking, barre chord, bass runs, melody playing, and reading music. | May be retaken to max of 6 cr. Prereq: Music 150(345)(P); or cons instr.

152 Intermediate Guitar II. 3 cr. U. Students learn pieces ranging from popular to classical repertoire further developing position playing, moveable chord forms, solo arrangements and accompaniment, accommodating students at a variety of levels. | May be retaken to max of 6 cr. Prereq: Music 151(P), or cons instr; & ability to read notation.

181 University Community Orchestra. 1 cr. U. Provides a continuing opportunity for rehearsal and performance for Music Majors playing secondary instrument(s). | Music 81 & 181 may be retaken to combined max of 10 sem. Prereq: Music Major playing secondary instrument(s).

182 Symphony Orchestra. 1 cr. U. This class will rehearse, study and perform orchestral works from the 18th, 19th and 20th centuries. | Music 182 & 82 may be retaken to combined max of 10 sem. Prereq: Music major; audition; & cons instr.

206 Jazz Fundamentals. 2 cr. U. Introduction to rhythmic, melodic and harmonic materials related to jazz. | Prereq: admis to Jazz Studies prog or cons instr.

211 General History of Western Music I. 3 cr. U. An introduction to the development of musical styles in western music through the end of the 17th century. | Prereq: soph st & 2 sem of music theory.

212 General History of Western Music II. 3 cr. U. The development of music through the 18th and 19th centuries, correlating period styles with contemporary history and other arts. | Prereq: soph st, 3 sem of music theory, & Music 211(P).

220 Introduction to Computers and Music. 3 cr. U. Introduction to digital audio, acoustics, psychoacoustics, electronic music composition, and history. Survey and application of software audio production tools through individual creative projects. | Prereq: Music major; previous experience in computers & music; or cons instr.

225 Materials of Theory III. 3 cr. U. Advanced study of the elements and extended chromatic organization of music through music literature. | Prereq: Music Major; Music 226(C) & Music 124(P), & 128(P) with grade of 'C-' or better or

equiv; successful completion of QL-A; or cons instr.

226 Aural Theory III. 1 cr. U. Continuation of Music 124. Advanced work developing sight-singing and melodic, contrapuntal, and harmonic dictation as related to music literature. Aural application of Music 225. |Prereq: Music Major; Music 225(C); 124(P) & 128(P) with grade of 'C-' or better or equiv.

230 Form Analysis. 3 cr. U. Study of the basic cells used for evolving musical structures. The two-part, three-part, and five-part song forms are analyzed, theme and variation form, song form with trio, sonatina form, sonata allegro form, and the symphonic, concerto, and chamber music structures are discussed and analyzed. |Prereq: Music 225(P) & 226(P) with grade of 'C-' or better or equiv.

241 Guitar Technique. 1 cr. U. Self-study tools and solutions on performing music accurately to advance and develop skills and expand the relative and absolute sense of touch. |Counts as repeat of Music 489 w/same topic. Prereq: Music major; or cons instr.

242 Fretboard Essentials. 2 cr. U. Music theory as it relates to the guitar fingerboard, including major/minor and harmonized scales, triads, 7th chords and inversions, and arpeggios. |Counts as repeat of Music 280 w/same topic. Prereq: Music major; Prereq: Music major; or cons instr.

244 Basic Diction in Singing. 1 cr. U. Principles of the international phonetic alphabet as they apply to the english language and the singing of assigned vocal repertoire. |Prereq: admis to Musical Theatre prog; or cons instr.

245 Basic and Italian Lyric Diction. 1 cr. U. Principles of Basic and Italian lyric diction as taught through the use of the international phonetic alphabet, and the singing of assigned vocal repertoire. |Prereq: Music major; or cons instr. .

246 German and French Lyric Diction. 1 cr. U. Principles of German and French lyric diction as taught through use of the international phonetic alphabet, and the singing of assigned vocal repertoire. |Prereq: music major; or cons instr.

247 French Diction in Singing. 1 cr. U. Principles of French lyric diction as taught through use of the International Phonetic Alphabet and the singing of assigned vocal repertoire. |Prereq: soph st; Music 244(P) & 245(P); & cons instr.

248 Sight-Reading for Guitar I. 1 cr. U. Skill development of sight-reading staff notation for the guitar. |Counts as repeat of Music 280 with same topic. Prereq: cons instr, Music major.

259 Accompanying. 2 cr. U. The piano as an accompanying instrument; study of basic principles of accompanying; sight reading and standard repertoire; transposition; laboratory experience. |Prereq: jr st or cons instr.

262 Ensemble - Piano. 1-2 cr. U. Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries. |Open to advanced performers on piano. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. Prereq: cons instr.

263 Ensemble - Beginning Percussion. 1 cr. U. An introduction of percussion instruments to non-percussion music majors. Topics include: technique, percussion in world music, care and maintenance, composing and arranging, repertoire. |Prereq: Music major.

266 Ensemble - Woodwind. 1-2 cr. U. Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartet, etc) of the last three centuries. |Open to advanced performers on woodwind. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. Prereq: cons instr.

268 Ensemble - Brass. 1-2 cr. U. Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries. |Open to advanced performers on brass. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for

cr. Prereq: cons instr.

271 Jazz Ensemble. 1 cr. U. A performance and laboratory group for the study of jazz ensemble techniques. | May be retaken to max of 10 cr. Prereq: cons instr.

274 Guitar Repertoire and Ensemble. 1 cr. U. Exploration of the guitar ensemble and solo literature. Performance laboratory. | May be retaken to combined max of 8 sem. Prereq: music majors or cons instr.

275 Keyboard Performance Repertoire. 1-2 cr. U. Section 1: piano. Section 2: organ. An analysis of applied piano or organ literature, including representative works from all periods. | Prereq: jr st & cons instr.

276 Keyboard Performance Repertoire. 1-2 cr. U. Section 1: piano. Section 2: organ. Continuation of Music 275. | Prereq: Music 275.

278 Afro-Caribbean and Latin American Guitar Styles. 2 cr. U. An overview of guitar accompaniment and lead styles used in various Latin-American and Caribbean genres. | Counts as repeat of Music 489 with same topic. Prereq: cons instr.

280 Special Studies in Music: (Subtitled). 1-3 cr. U. Specific topic will be announced in the Schedule of Classes when offered. | May be retaken for cr when course content is different. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Studio and special studies designed to provide relevant course work for a study abroad program in music. | May be retaken w/chg in topic to max of 12 cr. Prereq: cons instr & acceptance for Study Abroad prog.

300 Literary Aspects of Rock and Roll. 3 cr. U. Examines the evolution of the Rock and Roll song as an original American literary musical art form. | Prereq: Music 102(P), or cons instr.

301 Music Theory for Interdisciplinary Studies. 3 cr. U. An activities approach to music fundamentals through singing, playing, listening, note reading and creativity for interdisciplinary arts students. | Not accepted as part of a Music major. Prereq: jr st; admis to Inter-Arts/IAT prog; or cons instr.

302 Jazz Theory I. 2 cr. U. Beginning level study of jazz theory. Course will involve extensive composition, performance and analysis. | Prereq: admis to Jazz Studies prog or cons instr.

303 Jazz History. 3 cr. U. History of jazz from its conception to the present day. | Prereq: admis to Jazz Studies prog or cons instr.

304 Jazz Arranging. 3 cr. U. Basic jazz arranging techniques for various size ensembles. | Prereq: admis to Jazz Studies prog or cons instr.

306 Jazz Theory II. 2 cr. U. Advanced study of jazz theory. Course will involve extensive composition and analysis. | Prereq: Music 302(P).

307 General History of Western Music III. 3 cr. U. The development of music at the end of the 19th century and throughout the 20th century, including art music in the western tradition and american popular and vernacular musics. | Prereq: jr st, 3 sem music theory, Music 211(P) & 212(P).

308 Selected Topics in Music History and Literature: (Subtitled). 3 cr. U/G. An in-depth study of selected genres in western music, the composers and their works. Topic to be announced in Schedule of Classes. | May be retaken w/chg in topic to max of 9 cr. Prereq: jr st; Music 211(P), 212(P), 307(P); 4 semesters of music theory.

309 American Folk and Popular Music. 2 cr. U/G. A survey of American folk and popular music from 1750 to the present. Study of european and african music elements and their intersection in american musical forms. | Prereq: jr st or

cons instr.

310 Introduction to World Musics. 3 cr. U/G. Study of musical genres from selected world cultures with an emphasis on musical sound and structure, and performance in cultural context. | Prereq: jr st, successful completion of OWC-A (English 102 or equiv); or cons instr.

311 Music of the Baroque Era. 3 cr. U/G. A general or topical survey of music from the baroque era in which selected composers and their compositions will be studied. | Prereq: jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.

312 Music of the Classic Era. 3 cr. U/G. A general or topical survey of music from the classical era in which selected composers and their compositions will be studied. | Prereq: jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.

313 Music of the Romantic Era. 3 cr. U/G. A general or topical survey of music from the romantic era in which selected composers and their compositions will be studied. | Prereq: jr st, Music 211(P), 212(P), 307(P); 4 sem music theory.

314 Music since 1900. 3 cr. U/G. A general or topical survey of music since 1900, in which selected composers and their compositions will be studied. | Prereq: jr st; Music 211(P), 212(P), 307(P); 4 sem music theory.

317 Introduction to American Music. 3 cr. U/G. Introductory survey of folk, indigenous, popular and art music of the United States. | Prereq: jr st or grad st.

321 Counterpoint. 3 cr. U. Introduction to species counterpoint and contrapuntal techniques in music. Study of and exercises in contrapuntally oriented musical structures: passacaglia, chaconne, chorale prelude, canon, and fugue. | Prereq: Music 230(P).

323 Instrumental and Choral Orchestration. 3 cr. U. Techniques of arranging for voice, strings, woodwinds, brass, and percussion. Study of representative scores, demonstrations of suitable arrangements. | Prereq: Music 225(P), 226(P), & 220(P) for composition majors, (R) for others; or knowledge of computer music notation as determined by instr.

326 Advanced Aural Theory. 1 cr. U/G. Continuation of Aural Theory 226 with advanced work in the development of aural skills and dictation in linear and vertical aspects of diatonic, chromatic and atonal music. | Prereq: jr st; Music 225(P) & 226(P).

327 Analog and Digital Synthesis I. 3 cr. U/G. Introduction to analog and digital electronic sound synthesis, recording and audio mixing, acoustics and electronic music history. Individual work in analog and digital music studios. | Prereq: jr st, music major; or cons instr; Music 220(R).

328 Digital Synthesis and Systems II. 3 cr. U/G. Application of digital sound media and advanced midi; computing, synthesis, synthesizers, sampling, digital recording and editing methods. Individual projects utilizing the digital music studios. | Prereq: jr st; Music major; Music 327(P); previous experience in computers & music; or cons instr.

330 Improvisation I. 1 cr. U. Beginning application of rhythmic, melodic and harmonic materials related to jazz improvisation. | Prereq: cons instr.

331 Improvisation II. 1 cr. U. Intermediate application of rhythmic, melodic and harmonic materials related to jazz improvisation. | Prereq: Music 330(R); or cons instr.

332 Piano Pedagogy I. 3 cr. U. Introduction to Piano Pedagogy; overview of learning theories and methodologies related to piano instruction; technical/musical skills and repertoire for the preschool to K5 pianist. | Prereq: Piano Pedagogy or Performance Major or cons instr

333 Piano Pedagogy II. 3 cr. U. In-depth training for pianists in piano pedagogy. Teaching the elementary to late-elementary piano student and older beginners in individual and group settings. | Prereq: Piano Pedagogy or Performance

Major or cons instr.

334 (31) University Band. 3 cr. U. A concert band which performs concerts on and off campus. Designed as a continuing playing experience for students. | Music 30 & 334(31) may be retaken to combined max of 10 sem. Prereq: non-Music major.

340 (41) Symphony Band. 3 cr. U. Symphony band performs symphonic works for band, performing regularly on campus, statewide tours and national conventions. | Music 40 & 340(41) may be retaken to combined max of 10 sem. Prereq: non-Music major; audition; & cons instr.

342 (43) Wind Ensemble. 3 cr. U. Performs music ranging from octet to forty players, stressing the single player per part concept, embracing a commitment to quality wind and percussion music. Presents concerts on campus and national tours. | Music 42 & 342 'Wind Ensemble' may be retaken to combined max of 10 sem. Prereq: non-Music major; audition; & cons instr.

348 Sight-Reading for Guitar II. 1 cr. U. Solutions for accurate sight-reading of style-specific repertoire. | Counts as repeat of Music 280 with same topic. Prereq: cons instr, Music major

349 Classical Guitar History and Literature. 3 cr. U. A guided analytical and historical survey of the music, composers, performers, cultures, and literature for guitar from the sixteenth to twenty-first centuries. | Prereq: jr st; Music 226(P); 248(R), 348(R); cons instr.

350 (51) University Men's Choir. 3 cr. U. Large men's/mixed chorus rehearses and performs both men's and mixed-voice choral music of various styles, cultures, and historical periods. Open to all men by audition. | May be retaken to a max of 10 sem. Prereq: audition; cons instr.

352 (53) University Advanced Women's Choir. 3 cr. U. Select women's mixed chorus performs both women's and mixed-voice choral music of various styles, cultures, and historical periods. For women with significant choral experience; audition required. | Voice placements 1st wk each sem. Music 52 & 53 may be retaken to combined max of 10 sem. Prereq: non-Music major; cons instr; audition.

353 Conducting. 2 cr. U. Manual technique and rehearsal techniques for both choral and instrumental groups. Class forms a laboratory ensemble. | Prereq: jr st; Music major; Music 230(P) & cons instr.

354 Instrumental Conducting. 2 cr. U. Continuation of Music 353 with emphasis on conducting techniques: study and analysis of orchestral or wind band scores, with practical application for music education and performance majors. | Prereq: Music 353(P) or 253(P).

357 Choral Conducting. 2 cr. U. Advanced techniques of gesture, score study, style periods and performance practice, rehearsal and vocal techniques. | Prereq: Music Major; Music 353(P); Mus Ed 462(C); or cons instr.

361 Ensemble - Piano. 1-2 cr. U. Opportunity for pianists to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries. | Open to advanced performers on piano. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. Prereq: cons instr.

365 Ensemble - Woodwind. 1-2 cr. U. Opportunity for woodwind students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries. | Open to advanced performers on woodwind. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. Prereq: cons instr.

367 Ensemble - Brass. 1-2 cr. U. Opportunity for brass students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries. | Open to advanced performers on brass. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. Prereq: cons instr.

369 Ensemble - Strings. 1-2 cr. U. Opportunity for string students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.|Open to advanced performers on stringed instruments. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. Prereq: cons instr.

370 Chamber Ensemble - Mixed. 1-2 cr. U. Opportunity for students of mixed instrument families to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.|Open to advanced performers of all instruments. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. Prereq: cons instr.

377 Song Literature I: Italy, Germany, France, Great Britain. 2 cr. U. Art songs and vocal literature of Italy, Great Britain, Germany and France through recordings, student performances and lectures. Given alternate years in fall semester.| Prereq: 2 yrs collegiate voice study & cons instr.

378 Song Literature II: United States and Select European Countries. 2 cr. U. Art songs and vocal literature of the United States, European countries, South America, and Spain through recordings, student performances and lectures. Given alternate years in spring semester. Given alternate years in spring semester.|Prereq: 2 yrs collegiate voice study & cons instr.

382 (82) Symphony Orchestra. 3 cr. U. This class will rehearse, study and perform orchestral works from the 18th, 19th and 20th centuries.|Music 182 & 382(82) may be retaken to combined max of 10 sem. Prereq: non-Music major; audition; & cons instr.

395 (57) Concert Chorale. 3 cr. U. This highly select mixed ensemble performs advanced-level music from various styles, cultures, and historical periods and tours annually. Students chosen by competitive audition.|Music 395(57) may be retaken to combined max of 10 sem. Prereq: non-Music major; sophomore standing or higher; cons instr; audition.

402 Jazz Combo. 1-2 cr. U. Study of jazz music's origin, development and styles from early forms to contemporary trends. Emphasis on playing various styles in sequential periods of jazz history.|May be retaken for cr. Prereq: cons instr. Jazz Studies majors enrol for 2 cr, all others enrol for 1 cr.

404 Improvisation III. 1 cr. U. Application of melodic and harmonic materials of jazz to the keyboard.|Prereq: Music 331(R) or inst cons.

405 Improvisation IV. 1 cr. U. Continued advanced application of rhythmic, melodic and harmonic materials related to jazz improvisation.|Prereq: Music 404 (R); or cons instr.

409 Folk Music in Contemporary Culture. 3 cr. U/G. American Folk Music and its impact on contemporary culture.|Counts as repeat of Music 280/680 with the same topic. Prereq: jr st, Music 102(P); or cons instr.

410 Topics in World Music: (Subtitled). 3 cr. U/G. Topics vary. Covers the music of a single country, geographic region, or aspects of a particular topic in world music in depth.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st & Music 310(P); or grad st or cons instr.

415 Choral Literature Survey. 2 cr. U. A historical overview of choral literature with emphasis on major composers and styles of each period. Repertoire studied is selected from the WSMA Contest list.|Prereq: jr st; Music major; Music 230(P); Music 357(C); Mus Ed 462(C); & cons instr.

420 Advanced Computing and Music. 3 cr. U/G. Advanced application of microcomputers in midi, digital synthesis, electronic orchestration, and varied media interfaces as applied to composition. Individual work in computer music lab|Prereq: jr st; music major; Music 220(P); previous experience in computers & music; or cons instr.

421 Materials of Contemporary Music. 3 cr. U/G. Study and analysis of the techniques and styles in contemporary

music.|Prereq: jr st & Music 230(P).

434 Piano Pedagogy III. 3 cr. U. In-depth training for pianists in piano pedagogy. Teaching the intermediate/late-intermediate and adult student in individual and group settings.|Prereq: Piano Pedagogy or Performance Major or cons instr.

435 Piano Pedagogy IV. 3 cr. U. In-depth training for pianists in piano pedagogy. Teaching the advancing piano student in individual lessons. Advanced technical and musical skills, technical studies and repertoire.|Prereq: Piano Pedagogy or Performance Major or cons instr.

444 (446) Vocal Pedagogy I. 2 cr. U/G. Techniques for training the singing voice derived from the study of vocal anatomy, various pedagogy texts, and the observation and teaching of voice lessons.|Prereq: jr st & cons instr.

445 Vocal Pedagogy II. 2 cr. U/G. Advanced techniques for vocal teaching; including anatomy, pedagogic observation and advanced study of acoustics explore their relationship to voice pedagogue, laryngologists/speech-language pathologists, and vocal pathology.|Prereq: jr st; Music 444(446)(P); or cons instr.

447 String Pedagogy in the Studio. 2 cr. U/G. Topics include: technique (instrument hold, shifting, vibrato, spiccato, etc.), historical survey (tartini, baillot, auer, flesch, etc). Information delivery techniques, master teacher profile, recent trends.|Prereq: jr st; cons instr.

448 Piano Pedagogy. 2 cr. U. Techniques for training the elementary level piano student, derived from the study of methods and materials, discussion and guest lectures. Given alternate years.|Prereq: jr st or cons instr.

449 Women in Music: (Subtitled). 3 cr. U/G. Women's roles in musical life; their contributions as performers and composers to various musical styles and repertoires; comparison of their activities with those of men. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.|May be retaken w/chg in topic to max of 6 cr. Prereq: jr st; cons instr.

450 Introduction to Musicology. 3 cr. U/G. Study of the development of modern musicological methodology and its fields of research including ethnomusicology.|Prereq: jr st; cons instr.

452 Collegium Musicum. 1-2 cr. U/G. Vocal and instrumental groups devoted to the study and performance of music from twelfth through the eighteenth century.|Music majors enroll for 1 cr per sem; others for 1 or 2 cr. Prereq: jr st; cons instr.

454 Contemporary Music Ensemble. 1 cr. U. Study of various forms in contemporary music, with an emphasis on indeterminacy and improvisation. Works composed in the course are performed on a concert during the semester.|May be retaken to 4 cr max. Prereq: cons instr.

457 Opera Theatre. 0-3 cr. U/G. A concentrated study of the literature and techniques for the musical stage.|May be retaken to max of 4 sem. Students not needing cr should enroll for 0 cr; those needing 1-3 cr should enroll for a specific number of cr. Students who enroll for 0 cr will be assessed a fee for 1 credit. Prereq: cons instr & major teacher.

478 Finger-Style Guitar: History and Performance. 3 cr. U. Through multi-media lecture/presentations and hands-on instruction, this class will familiarize students with the history and performance of finger-style guitar.|Counts as repeat of Music 280 with same topic. Prereq: cons instr, Music major.

489 Workshop: (Subtitled). 1-4 cr. U/G. Specific topic announced in the Schedule of Classes.|Prereq: jr st; additional prereq announced each offering.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Studio and special studies designed to provide relevant course work for a study abroad program in music.|May be retaken w/chg in topic to max of 12 cr. Prereq: jr st; cons instr & acceptance for Study Abroad Prog.

509 Certificate Program in Rock and Roll Studies Capstone. 3 cr. U. Individual rock and roll studies projects facilitated by critiques and work sessions.|Prereq: min 12 cr of core and elective curriculum of Rock and Roll Studies curriculum, or cons instr.

523 Orchestration. 2 cr. U/G. Study of representative works by means of score, phonograph records, and attendance at rehearsals of the university orchestra and band. Scoring for orchestra and band.|Prereq: jr st & Music 323(P).

524 Orchestration. 2 cr. U/G. A continuation of Music 523.|Prereq: Music 523(P).

553 Advanced Conducting I. 2 cr. U/G. Advanced study and analysis of conducting techniques. Score reading and interpretation of masterpieces from the standard repertoire.|Prereq: sr st & cons instr.

554 Advanced Conducting II. 2 cr. U/G. Continuation of Music 553.|Prereq: sr st, Music 553(P) & cons instr.

559 The Wind Band: Its History and Literature. 3 cr. U/G. Examination of origins and historical significance of the wind band, including a survey of its instrumentation and literature.|Prereq: jr st; cons instr.

561 Advanced Chamber Music. 1-3 cr. U/G. Upper level undergraduate and graduate students to perform and study the chamber literature (duets, trios, quartets, etc).|Open to performance majors. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken to max of 9 cr. Prereq: jr st; cons instr.

611 Music of the Medieval Era. 3 cr. U/G. A general or topical survey of medieval music, including the study of representative works, medieval theory and performance practices.|Prereq: jr st; Music 211(P), 212(P), 307(P), & 4 sem Music theory.

612 Music of the Renaissance and Early Modern Era. 3 cr. U/G. A general or topical survey of renaissance and early modern music, including the study of representative works, renaissance theory and performance practices.|Prereq: jr st; Music 211(P), 212(P), 307(P) & 4 sem Music theory.

620 Advanced Percussion Pedagogy. 1-2 cr. U/G. Techniques for developing and teaching mallet and stick control. Model lesson procedures; methods, music (solo and ensemble) and equipment selection.|Prereq: jr st.

659 Junior Recital. 0 cr. U. Independent supervised preparation and performance on recital program as determined by performance instructor.|Fee for 1 cr assessed. Prereq: jr st; cons instr.

660 Senior Recital: (Subtitled). 0-2 cr. U. Independent supervised preparation and performance in recital to fulfill degree requirements. |Students in the multiple woodwinds performance major may fulfill the requirement for two senior recitals (1 cr for primary instrument and 2 cr for secondary instrument) by enrolling in two sections of Music 660 during the same sem. Students not needing cr should enroll for 0 cr; those needing 1-2 cr should enroll for a specific number of cr. Students who enroll for 0 cr will be assessed fee for 1 cred

680 Special Studies in Music: (Subtitled). 1-3 cr. U/G. Specific topic will be announced in Schedule of Classes when offered.|May be retaken w/chg in topic to max of 9 cr. Prereq: jr st or cons instr.

691 Senior Thesis. 2 cr. U/G. |Prereq: sr st. Not available for grad cr at this time.

692 Senior Thesis II. 2 cr. U/G. |Prereq: sr st. Not available for grad cr at this time.

693 Apprenticeship: 1-4 cr. U/G. Open to select advanced students who will work as paraprofessionals under the guidance of a program designed jointly by the student, the music department curriculum committee, and a professional mentor approved by the curriculum committee.|Prereq: jr st; cons curric comm.

699 Advanced Independent Work (Undergraduate). 1-3 cr. U. Enroll for a specific number of credits. | May be retaken for cr. Prereq: cons dept chair.

This course information produced at 01:00 on 05/05/2018.

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Peck School of the Arts

MUSPERF Music Performance

Performance (MusPerf) refers to courses of individual, group, intermediate or advanced instruction on a musical instrument, voice or in composition. Courses are available to students only after passing a successful performance audition and are placed at an appropriate level. All courses in performance curricular studies are taken for credit to satisfy individual area requirements. Non-Music majors must check with their schools or colleges regarding credit applicability and limits. All students taking individual performance lessons must also concurrently enroll in an approved Music Ensemble as published in the Performance Organization list. All MusPerf performance courses are offered at progressive levels. A student will be advised to register at a specific level after completing an audition, and may advance to the next higher level upon successful completion of each lower level. Performance (MusPerf) further distinguishes between courses that are specific to principal and non-principal performance lessons. A principal performance lesson refers to a student's primary instrument or area of concentration. A non-principal performance lesson refers to a student's secondary instrument or area of concentration as required by individual music area curricula. The Catalog (or Course) number designates between fundamental, principal or non-principal instruction, given the chosen curriculum. The first digit reflects a specific curricular area. 1. 0XX for music majors only: applies to lessons at a fundamental level on an instrument, in voice or composition. 2. 1XX for music or non-music majors: applies to non-principal lessons on an instrument or voice. 2XX for music majors only: applies to principal lessons on an instrument or in voice as a secondary concentration. 6XX for music majors only: applies to non-principal performance lessons for the graduate student. 3. 3XX, 4XX for music majors only: applies to principal lessons, on an instrument, in voice or composition. 7XX for music majors only: applies to principal performance lessons for the graduate student. The second and third digits of the Catalog number define the specific instrument to be studied. The section number indicates the specific performance level of lessons to be taken. Section numbers are listed in the published timetable. For example: A student auditions, wishing to pursue a music degree as a performer, majoring in trumpet. When accepted the student would take performance lessons on trumpet as the principal instrument and primary area of concentration. This student may additionally be required to take performance lessons in piano as defined by his or her music curriculum. These lessons would be considered a secondary area of concentration, and piano as the non-principal instrument. After successfully completing an audition, the performance major would begin lessons on his or her principal instrument and enter at the 3XX:001 Level I, followed by 002 Level II, 003 Level III and 004 Level IV (freshman and sophomore years) for four semesters and next advance to 4XX:001 Level I, followed by 002 Level II, 003 Level III and 004 Level IV (junior and senior years) for their four remaining semesters. Each level may only be taken once. A second enrollment in a level may occur only after prior consent of instructor and will be considered a repeat for the purposes of a change of grade. Numerical designation of course: "0" indicates small-group instruction in fundamentals for a given area to fulfill degree requirements in music education, literature, theory, and composition. All courses have one level with a max of 1 cr except for piano fundamentals, which may have up to two levels. Each level may only be taken once. A second enrollment at any level may occur only after prior consent of instructor and will be considered a repeat for the purposes of a change of grade. Courses are all 1 cr. Prereq: music major only; audition principal instrument; successful completion of Level(s); or cons instr. See area requirements for specific course recommendation towards the degree. "1" indicates individual instruction on non-principal instrument to fulfill degree requirements in music education, literature, theory, and composition. Various curricula require up to eight progressive Levels; may be retaken with change of topic

(level) to a max of 8 cr. Concurrent registration in an approved performance organization is required for music and non-music majors. A second enrollment in a level only by prior cons instr. "2" indicates individual instruction on principal instrument to fulfill degree requirements in music education, literature, theory, and composition. Various curricula require up to eight progressive levels; may be retaken with change of topic (level) to a max of 8 cr. Concurrent registration in an approved performance organization is required. A second enrollment in a level only by prior cons instr. Courses are all 1 cr. Prereq: music major; audition principal instrument; successful completion of each lower level; or cons instr. "3" indicates individual instruction in principal instrument for performance majors only. Course has four progressive levels; may be retaken with change of topic (level) to a max of 8 cr. Concurrent registration in an approved performance organization is required. A second enrollment in a level only by prior cons instr. Courses are all 2 cr except composition, which is 1 cr; may be retaken with change of topic to a max of 4 cr. Prereq: music performance major; audition principal instrument; successful completion of each lower level; or cons instr. "4" indicates advanced individual instruction in principal instrument for performance majors only. Course has four progressive levels; may be retaken with change of topic (level) to a max of 8 cr. Concurrent registration in an approved performance organization is required. A second enrollment in a level only by prior cons instr. Courses are all 2 cr except composition, which is 1 cr; may be retaken with change of topic to a max of 4 cr. Prereq: music performance major; audition principal instrument; successful completion of each lower level; or cons instr. "5" indicates specialized master class for principal instrument performance studies at G/UG level. Course may be retaken to a max of 8 cr. Courses are all 1 cr and are taken upon the recommendation of instructor. Prereq: music major; audition principal instrument; successful completion of each lower level; or cons instr. "6" indicates non-principal performance lessons for the graduate student in their non-major area. Courses are all 1 cr. "7" indicates principal performance lessons for the graduate student in their major area. Courses are all 3 cr except for advanced composition, which is 2 cr. Numerical designation of specific instrument: MusPerf: (X01) Lessons in Piano, (X02) Lessons in Organ, (X03) Lessons in Harpsichord, (X11) Lessons in Voice, (X21) Lessons in Flute, (X22) Lessons in Oboe, (X23) Lessons in Clarinet, (X24) Lessons in Saxophone, (X25) Lessons in Bassoon, (X31) Lessons in French Horn, (X32) Lessons in Trumpet or Cornet, (X33) Lessons in Trombone, (X34) Lessons in Baritone, (X35) Lessons in Tuba, (X41) Lessons in Violin, (X42) Lessons in Viola, (X43) Lessons in Cello, (X44) Lessons in Double Bass, (X45) Lessons in Harp, (X51) Lessons in Percussion, (X61) Lessons in Composition

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[[Peck School of the Arts](#)]

[[Up to Undergraduate Catalog School/College](#)]

[[Up to Undergraduate Catalog Department](#)]

1 Fundamentals of Piano: (Subtitled). 1 cr. U. Small group instruction in piano fundamentals. Course has two progressive levels. |May be retaken w/chg in topic to max of 2 cr. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of lower level; or cons instr.

2 Fundamentals of Organ. 1 cr. U. Small group instruction in fundamentals of organ. Course has one level with max of 1 cr. |Repeat of level only by prior cons instr. Prereq: music major; audition principal instrument; or cons instr.

3 Fundamentals of Harpsichord. 1 cr. U. Small group instruction in fundamentals of harpsichord. Course has one level with max of 1 cr. |Repeat of level only by prior cons instr. Prereq: music major; audition principal instrument; or cons instr.

21 Fundamentals of Flute. 1 cr. U. Small group instruction in fundamentals of flute. Course has one level with max of 1 cr. |Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

22 Fundamentals of Oboe and Bassoon. 1 cr. U. Small group instruction in fundamentals of oboe and bassoon. Course has one level with max of 1 cr. |Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

23 Fundamentals of Clarinet. 1 cr. U. Small group instruction in fundamentals of clarinet. Course has one level with max of 1 cr. |Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

24 Fundamentals of Saxophone. 1 cr. U. Small group instruction in fundamentals of saxophone. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

31 Fundamentals of French Horn. 1 cr. U. Small group instruction in fundamentals of french horn. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

32 Fundamentals of Trumpet or Cornet. 1 cr. U. Small group instruction in fundamentals of trumpet or cornet. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

33 Fundamentals of Trombone. 1 cr. U. Small group instruction in fundamentals of trombone. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

34 Fundamentals of Baritone. 1 cr. U. Small group instruction in fundamentals of baritone. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: music major; audition principal instrument; or cons instr.

35 Fundamentals of Tuba. 1 cr. U. Small group instruction in fundamentals of tuba. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: music major; audition principal instrument; or cons instr.

41 Fundamentals of Violin. 1 cr. U. Small group instruction in fundamentals of violin. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

42 Fundamentals of Viola. 1 cr. U. Small group instruction in fundamentals of viola. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

43 Fundamentals of Cello. 1 cr. U. Small group instruction in fundamentals of cello. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

44 Fundamentals of Double Bass. 1 cr. U. Small group instruction in fundamentals of double bass. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: music major; audition principal instrument; or cons instr.

45 Fundamentals of Harp. 1 cr. U. Small group instruction in fundamentals of harp. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: music major; audition principal instrument; or cons instr.

51 Fundamentals of Percussion. 1 cr. U. Small group instruction in fundamentals of percussion. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

61 Fundamentals of Composition. 1 cr. U. Small group instruction in fundamentals of composition. Course has one level with max of 1 cr.|Repeat of level only by prior cons instr. Prereq: music major; audition principal instrument; or cons instr.

101 Lessons in Piano: (Subtitled). 1 cr. U. Private lessons in piano. Course has eight progressive performance levels.|May be retaken w/chg in topic to 3 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

102 Lessons in Organ: (Subtitled). 1 cr. U. Private lessons in organ. Course has eight progressive performance levels.|May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each

lower level; cons instr.

103 Lessons in Harpsichord: (Subtitled). 1 cr. U. Private lessons in harpsichord. Course has eight progressive performance levels. May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music major or non-major; audition principal instrument; successful completion of each lower level; cons instr.

111 Lessons in Voice: (Subtitled). 1 cr. U. Private lessons in voice. Course has four progressive performance levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-music major; audition principal instrument; successful completion of each lower level; or cons instr.

121 Lessons in Flute: (Subtitled). 1 cr. U. Private lessons in flute. Course has eight progressive performance levels. May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

122 Lessons in Oboe: (Subtitled). 1 cr. U. Private lessons in oboe. Course has eight progressive performance levels. May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

123 Lessons in Clarinet: (Subtitled). 1 cr. U. Private lessons in clarinet. Course has eight progressive performance levels. May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

124 Lessons in Saxophone: (Subtitled). 1 cr. U. Private lessons in saxophone. Course has eight progressive performance levels. May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

125 Lessons in Bassoon: (Subtitled). 1 cr. U. Private lessons in bassoon. Course has eight progressive performance levels. May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

131 Lessons in French Horn: (Subtitled). 1 cr. U. Private lessons in french horn. Course has eight progressive performance levels. May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

132 Lessons in Trumpet or Cornet: (Subtitled). 1 cr. U. Private lessons in trumpet or cornet. Course has eight progressive performance levels. May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

133 Lessons in Trombone: (Subtitled). 1 cr. U. Private lessons in trombone. Course has eight progressive performance levels. May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

134 Lessons in Baritone: (Subtitled). 1 cr. U. Private lessons in baritone. Course has eight progressive performance levels. May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only

by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

135 Lessons in Tuba: (Subtitled). 1 cr. U. Private lessons in tuba. Course has eight progressive performance levels. | May be retaken with w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

141 Lessons in Violin: (Subtitled). 1 cr. U. Private lessons in violin. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

142 Lessons in Viola: (Subtitled). 1 cr. U. Private lessons in viola. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

143 Lessons in Cello: (Subtitled). 1 cr. U. Private lessons in cello. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

144 Lessons in Double Bass: (Subtitled). 1 cr. U. Private lessons in double bass. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

145 Lessons in Harp: (Subtitled). 1 cr. U. Private lessons in harp. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

146 Lessons in Guitar--Classical: (Subtitled). 1 cr. U. Private lessons in a non-principal guitar style. Course has eight progressive performance levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music majors only; audition principal instrument; successful completion of each lower level; or cons instr.

147 Lessons in Guitar-Finger-Style: (Subtitled). 1 cr. U. Private lessons in a non-principal guitar style. Course has eight progressive performance levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music majors only; audition principal instrument; successful completion of each lower level; or cons instr.

148 Lessons in Guitar--Jazz: (Subtitled). 1 cr. U. Private lessons in a non-principal style. Course has eight progressive levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music majors only; audition principal instrument; successful completion of each lower level; or cons instr.

149 Lessons in Guitar--Flamenco: (Subtitled). 1 cr. U. Private lessons in a non-principal style. Course has eight progressive performance levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music majors only; audition principal instrument; successful completion of each lower level; or cons instr.

151 Lessons in Percussion: (Subtitled). 1 cr. U. Private lessons in percussion. Course has eight progressive

performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

201 Lessons in Piano: (Subtitled). 1 cr. U. Private lessons in piano. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

202 Lessons in Organ: (Subtitled). 1 cr. U. Private lessons in organ. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

203 Lessons in Harpsichord: (Subtitled). 1 cr. U. Private lessons in harpsichord. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music major; audition principal instrument; successful completion of each lower level; or cons instr.

211 Lessons in Voice: (Subtitled). 1 cr. U. Private lessons in voice. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

221 Lessons in Flute: (Subtitled). 1 cr. U. Private lessons in flute. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

222 Lessons in Oboe: (Subtitled). 1 cr. U. Private lessons in oboe. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

223 Lessons in Clarinet: (Subtitled). 1 cr. U. Private lessons in clarinet. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

224 Lessons in Saxophone: (Subtitled). 1 cr. U. Private lessons in saxophone. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

225 Lessons in Bassoon: (Subtitled). 1 cr. U. Private lessons in bassoon. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

231 Lessons in French Horn: (Subtitled). 1 cr. U. Private lessons in french horn. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

232 Lessons in Trumpet or Cornet: (Subtitled). 1 cr. U. Private lessons in trumpet/cornet. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

233 Lessons in Trombone: (Subtitled). 1 cr. U. Private lessons in trombone. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

234 Lessons in Baritone: (Subtitled). 1 cr. U. Private lessons in baritone. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

235 Lessons in Tuba: (Subtitled). 1 cr. U. Private lessons in tuba. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

241 Lessons in Violin: (Subtitled). 1 cr. U. Private lessons in violin. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

242 Lessons in Viola: (Subtitled). 1 cr. U. Private lessons in viola. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

243 Lessons in Cello: (Subtitled). 1 cr. U. Private lessons in cello. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

244 Lessons in Double Bass: (Subtitled). 1 cr. U. Private lessons in double bass. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

245 Lessons in Harp: (Subtitled). 1 cr. U. Private lessons in harp. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

246 Lessons in Guitar--Classical: (Subtitled). 1 cr. U. Private lessons in a guitar style. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

247 Lessons in Guitar-Finger-Style: (Subtitled). 1 cr. U. Private lessons in a guitar style. Course has eight progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

248 Lessons in Guitar--Jazz: (Subtitled). 1 cr. U. Private lessons in a guitar style. Course has eight progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

249 Lessons in Guitar--Flamenco: (Subtitled). 1 cr. U. Private lessons in guitar. Course has eight progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

251 Lessons in Percussion: (Subtitled). 1 cr. U. Private lessons in percussion. Course has eight progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

261 Lessons in Composition: (Subtitled). 1 cr. U. Private lessons in composition. Course has eight progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

301 Lessons in Piano: (Subtitled). 2 cr. U. Private lessons in piano. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

302 Lessons in Organ: (Subtitled). 2 cr. U. Private lessons in organ. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

304 Lessons in Collaborative Piano-Vocal: (Subtitled). 2 cr. U. Private lessons in Collaborative Piano-Vocal. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

306 Jazz Piano: (Subtitled). 2 cr. U. Lessons in Jazz Piano. Course has two progressive levels. |May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.

311 Lessons in Voice: (Subtitled). 2 cr. U. Private lessons in voice. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

315 Brass Pedagogy and Techniques. 3 cr. U. Prepares students to teach brass instruments in K-12 school settings. Classroom instruction in horn, trumpet, trombone, euphonium, tuba and related brass instruments. |Counts as repeat of MusPerf 31, 32, 33, 34, & 35. Prereq: Music major; or cons instr.

316 String Pedagogy and Techniques. 3 cr. U. Prepares students for classroom instruction in teaching violin, viola, cello and string bass with appropriate pedagogical and repertoire choices for all K-12 school. |Counts as repeat of MusPerf 41, 42, 43, 44, and Mus Ed 452. Prereq: Music major; or cons instr.

317 Woodwind Pedagogy and Techniques. 3 cr. U. Prepares students for classroom instruction in flute, oboe, clarinet,

bassoon and saxophone with appropriate pedagogical and repertoire choices for all K-12 school. | Counts as repeat of MusPerf 21, 22, 23, 24. Prereq: Music major; or cons instr.

318 Percussion Pedagogy and Techniques. 2 cr. U. Instruments and methods for teaching various percussion instruments and methods including snare drum, timpani, keyboard percussion instruments, accessory percussion instruments, and hand drums. | Counts as repeat of MusPerf 51. Prereq: Music major; or cons instr.

319 (11) Voice Technique for the Instrumentalist. 1 cr. U. Small group instruction in fundamentals of voice for music educators, including vocal pedagogy and techniques. | Repeat of level only by prior cons instr. Prereq: music major; audition principal instrument; or cons instr.

321 Lessons in Flute: (Subtitled). 2 cr. U. Private lessons in flute. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

322 Lessons in Oboe: (Subtitled). 2 cr. U. Private lessons in oboe. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

323 Lessons in Clarinet: (Subtitled). 2 cr. U. Private lessons in clarinet. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

324 Lessons in Saxophone: (Subtitled). 2 cr. U. Private lessons in saxophone. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

325 Lessons in Bassoon: (Subtitled). 2 cr. U. Private lessons in bassoon. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

328 Jazz Saxophone: (Subtitled). 2 cr. U. Lessons in Jazz Saxophone. Course has two progressive levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.

331 Lessons in French Horn: (Subtitled). 2 cr. U. Private lessons in french horn. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

332 Lessons in Trumpet or Cornet: (Subtitled). 2 cr. U. Private lessons in trumpet or cornet. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

333 Lessons in Trombone: (Subtitled). 2 cr. U. Private lessons in trombone. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

334 Lessons in Baritone: (Subtitled). 2 cr. U. Private lessons in baritone. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

335 Lessons in Tuba: (Subtitled). 2 cr. U. Private lessons in tuba. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

336 Jazz Trumpet: (Subtitled). 2 cr. U. Lessons in Jazz Trumpet. Course has two progressive levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.

337 Jazz Trombone: (Subtitled). 2 cr. U. Lessons in Jazz Trombone. Course has two progressive levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.

341 Lessons in Violin: (Subtitled). 2 cr. U. Private lessons in violin. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

342 Lessons in Viola: (Subtitled). 2 cr. U. Private lessons in viola. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

343 Lessons in Cello: (Subtitled). 2 cr. U. Private lessons in cello. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

344 Lessons in Double Bass: (Subtitled). 2 cr. U. Private lessons in double bass. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

345 Lessons in Harp: (Subtitled). 2 cr. U. Private lessons in harp. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

346 Lessons in Guitar--Classical: (Subtitled). 2 cr. U. Private lessons in a principal guitar style. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

347 Lessons in Guitar--Finger-Style: (Subtitled). 2 cr. U. Private lessons in a principal guitar style. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

348 Lessons in Guitar--Jazz: (Subtitled). 2 cr. U. Private lessons in a principal guitar style. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

349 Lessons in Guitar--Flamenco: (Subtitled). 2 cr. U. Private lessons in a principal guitar style. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

351 Lessons in Percussion: (Subtitled). 2 cr. U. Private lessons in percussion. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

352 Jazz Drum Set: (Subtitled). 2 cr. U. Lessons in Jazz Drum Set. Course has two progressive levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.

353 Jazz String Bass: (Subtitled). 2 cr. U. Lessons in Jazz String Bass. Course has two progressive levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.

361 Lessons in Composition: (Subtitled). 1 cr. U. Private lessons in composition. Course has four progressive performance levels. Level I will be presented as a group lesson. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

401 Lessons in Piano: (Subtitled). 2 cr. U. Private lessons in piano. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

402 Lessons in Organ: (Subtitled). 2 cr. U. Private lessons in organ. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

404 Lessons in Collaborative Piano-Vocal. (Subtitled). 2 cr. U. Private lessons in Collaborative Piano-Vocal. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

406 Jazz Piano: (Subtitled). 2 cr. U. Lessons in Jazz Piano. Two progressive levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusPerf 306(P).

411 Lessons in Voice: (Subtitled). 2 cr. U. Private lessons in voice. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

421 Lessons in Flute: (Subtitled). 2 cr. U. Private lessons in flute. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only

by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

422 Lessons in Oboe: (Subtitled). 2 cr. U. Private lessons in oboe. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

423 Lessons in Clarinet: (Subtitled). 2 cr. U. Private lessons in clarinet. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

424 Lessons in Saxophone: (Subtitled). 2 cr. U. Private lessons in saxophone. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

425 Lessons in Bassoon: (Subtitled). 2 cr. U. Private lessons in bassoon. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

428 Jazz Saxophone: (Subtitled). 2 cr. U. Lessons in Jazz Saxophone. Two progressive levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusicPerf 328(P).

431 Lessons in French Horn: (Subtitled). 2 cr. U. Private lessons in french horn. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

432 Lessons in Trumpet-Cornet: (Subtitled). 2 cr. U. Private lessons in trumpet-cornet. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

433 Lessons in Trombone: (Subtitled). 2 cr. U. Private lessons in trombone. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

434 Lessons in Baritone: (Subtitled). 2 cr. U. Private lessons in baritone. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

435 Lessons in Tuba: (Subtitled). 2 cr. U. Private lessons in tuba. Course has four progressive performance levels. | May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

436 Jazz Trumpet: (Subtitled). 2 cr. U. Lessons in Jazz Trumpet. Two progressive levels. | May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq:

MusPerf 336(P).

437 Jazz Trombone: (Subtitled). 2 cr. U. Lessons in Jazz Trombone. Two progressive levels. |May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusPerf 337(P).

441 Lessons in Violin: (Subtitled). 2 cr. U. Private lessons in violin. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

442 Lessons in Viola: (Subtitled). 2 cr. U. Private lessons in viola. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

443 Lessons in Cello: (Subtitled). 2 cr. U. Private lessons in cello. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

444 Lessons in Double Bass: (Subtitled). 2 cr. U. Private lessons in double bass. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

445 Lessons in Harp: (Subtitled). 2 cr. U. Private lessons in harp. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

446 Lessons in Guitar--Classical: (Subtitled). 2 cr. U. Private lessons in a principal guitar style. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

447 Lessons in Guitar--Finger-Style: (Subtitled). 2 cr. U. Private lessons in a principal guitar style. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

448 Lessons in Guitar--Jazz: (Subtitled). 2 cr. U. Private lessons in a principal guitar style. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

449 Lessons in Guitar--Flamenco: (Subtitled). 2 cr. U. Private lessons in a principal guitar style. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

451 Lessons in Percussion: (Subtitled). 2 cr. U. Private lessons in percussion. Course has four progressive performance levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion

of each lower level; or cons instr.

452 Jazz Drum Set: (Subtitled). 2 cr. U. Lessons in Jazz Drum Set. Two progressive levels. |May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusPerf 352(P).

453 Jazz String Bass: (Subtitled). 2 cr. U. Lessons in Jazz String Bass. Two progressive levels. |May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusPerf 353(P).

461 Lessons in Composition: (Subtitled). 2 cr. U. Private lesson in composition. Course has four progressive levels. |May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

501 (effective 05/21/2018) Master Class in Keyboard Instruments, Piano. 1 cr. U/G. |May be repeated for a max of 8 cr. Prereq: Music major or minor, cons instr.

501 Master Class in Keyboard Instruments, Piano. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

502 Master Class in Keyboard Instruments, Organ. 1 cr. U/G. |May be repeated to max of 6 cr. Open to music majors only. Prereq: jr st & cons instr.

502 (effective 05/21/2018) Master Class in Keyboard Instruments, Organ. 1 cr. U/G. |May be repeated to max of 8 cr. Prereq: Music major or minor, cons instr.

511 (effective 05/21/2018) Master Class in Voice. 1 cr. U/G. |May be repeated to max of 8 cr. Prereq: Music major or minor, cons instr.

511 Master Class in Voice. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

521 Master Class in Woodwind Instruments, Flute. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

521 (effective 05/21/2018) Master Class in Woodwind Instruments, Flute. 1 cr. U/G. |May be repeated to max of 8 cr. Prereq: Music major or minor, cons instr.

522 Master Class in Woodwind Instruments, Oboe. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

522 (effective 05/21/2018) Master Class in Woodwind Instruments, Oboe. 1 cr. U/G. |May be repeated to max of 8 cr. Prereq: Music major or minor, cons instr.

523 Master Class in Woodwind Instruments, Clarinet. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

523 (effective 05/21/2018) Master Class in Woodwind Instruments, Clarinet. 1 cr. U/G. |May be repeated to max of 8 cr. Prereq: Music major or minor, cons instr.

524 Master Class in Woodwind Instruments, Saxophone. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

524 (effective 05/21/2018) Master Class in Woodwind Instruments, Saxophone. 1 cr. U/G. |May be repeated to max of 8 cr. Prereq: Music major or minor, cons instr.

525 (effective 05/21/2018) Master Class in Woodwind Instruments, Bassoon. 1 cr. U/G. |May be repeated to max of 8 cr. Prereq: Music major or minor, cons instr.

525 Master Class in Woodwind Instruments, Bassoon. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

531 Master Class in Brass Instruments, French Horn. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

531 (effective 05/21/2018) Master Class in Brass Instruments, French Horn. 1 cr. U/G. |May be repeated to max of 8 cr. Prereq: Music major or minor, cons instr.

532 Master Class in Brass Instruments, Trumpet-Cornet. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

533 Master Class in Brass Instruments, Trombone. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

534 Master Class in Brass Instruments, Baritone. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

535 Master Class in Brass Instruments, Tuba. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

541 Master Class in String Instruments, Violin. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

542 Master Class in String Instruments, Viola. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

543 Master Class in String Instruments, Violoncello. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

544 Master Class in String Instruments, Bass Viol. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

545 Master Class in String Instruments, Harp. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr. Not available for grad cr.

546 Master Class in Guitar. 1 cr. U/G. Master Class in Guitar supplements the student's private lesson by providing an opportunity for students to perform and critique repertoire and discuss related topics.|Counts as repeat of Music 280 with topics 'Master Class - Jazz,' '- Fingerstyle,' and '- Classical.' May be retaken to max of 6 cr. Open to Music majors only. Prereq: jr st, cons instr.

551 Master Class in Percussion. 1 cr. U/G. |May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

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249 Diction Survey. 2 cr. U. Survey of Diction for Music Education. An in depth study of IPA covering germanic, romance and other languages as needed.|Prereq: none.

260 Making Music Connections with Children. 3 cr. U. Experiencing music through interactive participation by singing, listening, moving, creating, and playing classroom instruments. Collaboratively teach multiethnic music for children in class.|Prereq: jr st; admis to School of Educ; or cons instr.

331 Keyboard Skills for Music Educators I. 1 cr. U. Functional use of the keyboard for accompanying, sight reading and improvising|Prereq: Music Major; Music 128(P) with grade of 'C-' or better or equiv; or cons instr.

332 Keyboard Skills for Music Educators II. 1 cr. U. Functional use of the keyboard for accompanying and reading open score.|Prereq: Mus Ed 331(P) or cons instr.

350 Introduction to Teaching Music. 2 cr. U. Exploration of the profession of music teaching including observation in area music programs. Successful exit audition required for admission to the certification program.|Prereq: Music Major; Music 124(P); & 128(P).

351 Folk Instrument Techniques for the Music Classroom. 2 cr. U. Practical experience with folk and recreational-instruments, e.g., autoharp, dulcimer, guitar. Methods and materials for use with children and adults.|Prereq: Music Major; admis to teacher cert prog; or cons instr.

352 Technology in Music Education. 2 cr. U. Awareness of music education software and hardware to incorporate technology into planning, implementation and assessment of musical learning experiences.| Prereq: Music Major; admis to teacher cert prog.

385 Guitar Pedagogy. 2 cr. U. Studies in the pedagogy of guitar for class and private studios.|Prereq: jr st; cons instr.

450 Field Experience in Music Education. 2 cr. U. Experience working with diverse student populations in cooperating schools to address issues of urban teaching.|Prereq: Music Major; admis to teacher cert prog.

451 Teaching Instrumental Music: Elementary and Middle Levels. 2 cr. U. Group ensemble pedagogical techniques in elementary and middle schools; survey of band and orchestra literature; marching and jazz techniques; organization

and administration of instrumental music.|Prereq: Music Major; admis to teacher cert prog.

452 String Pedagogy. 1 cr. U. Survey of string pedagogy, methods, and materials.|Prereq: Music Major; admis to teacher cert prog; 1 sem of stringed instrument; or cons instr.

455 Positive Approaches: Music Education Classroom Management. 1 cr. U. Stimulate thinking as evidenced by verbalizations demonstrating ability to logically analyze and criticize behavior. |Prereq: admis to teacher cert. prog.

458 Musicals and Choirs for Young Voices. 2 cr. U. Explore musical literature and techniques for choirs in the elementary grades. Design your own musical and assess the educational value of published materials.|Prereq: Music Major; admis to teacher cert prog; or cons instr.

460 Teaching Elementary General Music. 3 cr. U. Methods, materials, and observation of teaching general music in grades pre K-5.|Prereq: Music Major; admis to teacher cert prog; or cons instr.

461 Teaching Secondary General Music. 2 cr. U. Methods and materials for teaching classroom music; work with creating, performing, and listening techniques; model course designs; related arts-humanities format; and appropriate resources. Sixth grade through adult.|Prereq: Music Major; admis to teacher cert prog; or cons instr.

462 Teaching Secondary Choral Music. 3 cr. U. Methods and techniques for teaching choral music; work with organization choral program, auditioning, choosing music, program planning; rehearsal techniques, public relations, and setting up a choral library. Sixth grade through adult.|Prereq: Music Major; admis to teacher cert prog; Music 357(C); or cons instr.

463 Teaching Instrumental Music: Secondary. 2 cr. U. Group ensemble pedagogical techniques in secondary schools; survey of band and orchestra literature; marching and jazz techniques; organization and administration of the instrumental music program.|Prereq: Music Major; admis to teacher cert prog; or cons instr.

477 Student Teaching in Music - Elementary Level. 1-9 cr. U. Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.|Prereq: Music Major; admis to teacher cert prog; and program approval.

478 Student Teaching in Music - Secondary Level. 1-9 cr. U. Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.|Prereq: Music Major; admis to teacher cert prog; and program approval.

479 Seminar in Student Teaching. 1 cr. U. A seminar meeting to review teacher field observations, portfolio development, and preparation of resume and job application materials.|Prereq: Music Major; admis to teacher cert prog; and program approval.

680 Special Studies in Music Education: (Subtitled). 1-3 cr. U/G. Current issues in music education techniques, pedagogy, and practice at all levels of music teaching. Variable Topics.|May be retaken w/chg in topic to 9 cr max. Prereq: admis to U/G MusEd prog or cons instr.

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NURS Nursing

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101 Cultural Diversity in Health Care. 3 cr. U. Enables student to conceptualize cultural diversity as a basic component of American society with implications for sensitivity and respect in health promotion and human relations.|Prereq: none.

102 Perspectives on Health Care Systems. 2 cr. U. Provides students with an orientation to the complexity of health care, health care delivery systems, and the populations served.|Prereq: none.

103 Freshman Seminar in Professional Nursing. 1 cr. U. Designed to orient students to nursing through self-assessment, career exploration, problem solving, study skills, and goal setting.|Prereq: admis to Pre-Nursing prog.

110 Introduction to Global Health. 3 cr. U. An overview of the broad field of global health, using the U.N. Sustainable Development Goals as a guiding framework.|Prereq: none.

172 Health and Health Care Practices. 2 cr. U. Focuses on health, health care practices, personnel, and services related to obtaining reliable information on health care needs and practices, and available community services.|Prereq: none.

190 Special Studies in Nursing. 1-5 cr. U. Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.|May be retaken to max of 5 cr. Prereq: cons instr.

203 Human Growth and Development Across the Life Span. 4 cr. U. Introduction to physical, cognitive, and psychosocial growth of human organism from conception through older adulthood with application to health care.|Prereq: Psych 101(P).

204 Global Maternal and Child Health: From Evidence to Action. 3 cr. U. Critical issues impacting the health of mothers, newborns and children, using a global perspective and a life course analytical approach.|Prereq: none.

205 Clinical Pharmacology. 3 cr. U. The principles of pharmacology and administration; legislative controls; mechanisms of drug actions; contraindications; adverse and toxic effects and lifespan considerations.|Prereq: Nurs 320(C) or cons instr.

211 Health Assessment. 3 cr. U. Concepts and skills to comprehensively assess the health status of individuals. History taking, physical examination techniques, developmental, and other assessments.|Prereq: Admis to major or cons instr.

251 Genetics and Genomics in Healthcare. 2 cr. U. The relationship between the underlying science (genetics), the study of genomes (genomics) and the social, ethical and legal issues (genethics) in healthcare. |Prereq: none.

262 Exploring Human Sexuality. 3 cr. U. Historical and contemporary issues involving human sexuality as seen through the lenses of nursing, psychology, biology, and sociology. |Prereq: none.

290 Special Studies in Nursing. 1-5 cr. U. Independent study course. Students establish credits, objectives and learning experiences with approval of instructor. |May be retaken to max of 5 cr. Prereq: cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in especially prepared program course work. |May be retaken with change in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: 1-12 cr. U. Created expressly for offering in a specified enrollment period. Specific credits and additional prereqs, if any, will be specified in Schedule of Classes whenever course is offered. |May be retaken with change in topic. Prereq: none.

300 Introduction to Research Principles and Methods. 2 cr. U. Introduction to the significance, principles, purpose, and methods of the research process in order to create good consumers of research literature. |Prereq: none.

315 Nursing Science I: Concepts of Promoting and Maintaining Health. 2 cr. U. Nursing science related to health promotion, disease prevention, and maintaining health; responses of individual and families in acute and community settings. |Prereq: admis to Nurs major.

320 Concepts of Illness I. 3 cr. U. Mechanisms, manifestations, diagnosis, and treatment of disease states for selected body systems. |Prereq: Bio Sci 101(P) & 203(P), Chem 103(P); or cons instr.

321 Concepts of Illness II. 3 cr. U. Mechanisms, manifestations, diagnosis and treatment of disease states for selected body systems. Continuation of Nurs 320. |Prereq: Nurs 320(P) or cons instr.

326 Nursing Science II: Concepts of Aging and Long Term Health Care. 3 cr. U. Identification and management of factors influencing and compromising health and functional ability of older adults and exploration of long-term health care in various settings. |Prereq: admis to Nurs major.

327 Nursing Science III: Health Concepts-Women & Children. 4 cr. U. Nursing science related to the acute, chronic, and health promotion care of women and children and their families in acute and community care settings. |Prereq: Nurs 211(P), 320(P), 321(C); 331(P)

328 Nursing Science IV: Concepts of Health Care of the Adult. 4 cr. U. Nursing science related to adults with acute and chronic health problems in both acute and community care settings. Individual and family responses. |Prereq: Nurs 321(C); 331(P).

331 Foundations of Clinical Practice I. 5 cr. U. Introductory course includes communication, philosophy, theory, and decision making content, and psychomotor skills to be used as a base for planning and providing nursing care. |Prereq: admis to Nurs major.

334 Foundations of Clinical Practice II. 3 cr. U. Refine clinical decision making skills within the nursing process, professional communication, and psychomotor skills necessary for helping clients needing nursing care. |Prereq: Nurs 205(C), 321(C); 331(P).

351 Professional Role 1: Foundations of Professional Practice. 3 cr. U. Exploration of selected foundational concepts and principles essential to the professional nursing role. |Prereq: admis to nurs major.

352 Health and Illness Concepts 1: Introduction. 3 cr. U. Introduction of selected foundational health and illness concepts essential to nursing practice.|Prereq: admis to nurs major.

353 Clinical Practicum 1: Foundations. 3 cr. U. Clinical practicum which introduces the application of foundational knowledge, skills, and attitudes in the provision of nursing care.|Prereq: admis to nurs major.

365 Current Topics of Nursing: (Subtitled). 1-3 cr. U. Current thought, issues, and research in nursing and implications for practice.|May be retaken with topic change to a combined max of 12 cr for Nurs 365. Prereq: jr st or cons instr.

373 Alternative and Complementary Therapies in Holistic Health Care - Theory. 2 cr. U. Investigative theories underlying alternative and complementary therapies (CAT) commonly used in holistic Health Care.|Can be taken simultaneously with Nurs 374. Prereq: none.

374 Alternative and Complementary Therapies in Holistic Health Care - Field Work. 1 cr. U. Experiential course with select alternative and complementary therapies (CAT) commonly used in holistic health care.|Can be taken simultaneously with Nurs 373. Prereq: none.

375 Genetics and Genomics for Health Professionals. 3 cr. U. Emphasizes relationships between science of genetics, study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients.|Prereq: Admis to RN to BSN prog.

380 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in nursing and healthcare. May be retaken w/chg in topic to 9 cr max.|Prereq: soph st; Honors 200(P); cons Honors College dir.

390 Special Studies in Nursing. 1-5 cr. U. Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.|May be retaken to max of 5 cr. Prereq: cons instr.

398 Health Assessment and Promotion in Nursing Practice. 3 cr. U. Application of nursing concepts and skills to promote health and comprehensively assess the health status of individuals using a nursing framework.|Prereq: admis to nurs major.

399 Concepts of Pathophysiology and Pharmacotherapeutics 1. 4 cr. U. Pathophysiology and pharmacology concepts for nursing across the lifespan.|Prereq: admis to nurs major.

400 Concepts of Pathophysiology and Pharmacotherapeutics: 2. 4 cr. U. Pathophysiology and pharmacology concepts for nursing across the lifespan.|Prereq: Nurs 399(P).

401 Global Patterns of Disease. 3 cr. U. Global patterns of disease and epidemiological trends highlighting communicable, non-communicable diseases, injuries and outbreaks impacting the health of diverse populations.|Prereq: jr st; Nurs 110(P); or cons instr.

403 Practice, Research and Leadership Role Development. 3 cr. U. Explore and evaluate role of the professional nurse as practitioner, researcher, manager and leader.|Prereq: Nurs 334(P), 442(C).

415 Nursing Science V: Concepts of Community Health Care of Aggregates. 3 cr. U. Nursing care of individuals, families and communities; aggregates and special populations in the community; roles of community health nurses.|Prereq: Nurs 334(P).

419 Concepts of Evidence-based Nursing Practice. 3 cr. U. Introduction to an integration of concepts relevant to evidence-based nursing practice.|Prereq: Nurs 420(P).

420 Professional Role 2: Provider of Care. 3 cr. U. Examination of selected concepts and principles essential to the provision of patient care.|Prereq: Nurs 351(P).

421 Health and Illness Concepts 2: Acute and Chronic Conditions. 3 cr. U. Nursing care of individuals and families experiencing acute and chronic health conditions using a holistic approach.|Prereq: Nurs 352(P).

422 Clinical Practicum 2: Acute & Chronic Conditions. 3 cr. U. Clinical practicum focusing on providing nursing care for individuals and families with acute and chronic conditions.|Prereq: Nurs 353(P).

430 Professional Role 3: Interprofessional Practice. 3 cr. U. Analysis of factors contributing to collaboration within and among teams.|Prereq: Nurs 420(P).

431 Health and Illness Concepts IV: Lifespan. 3 cr. U. Integration of selected concepts in the care of individuals and families across the lifespan.|Prereq: Nurs 421(P).

432 Health and Illness Concepts III: Population Health. 3 cr. U. Promotion and improvement of the health of populations and communities.|Prereq: Nurs 431(C).

433 Clinical Practicum 3: Population Health. 3 cr. U. Clinical practicum focusing on applying concepts and providing population based nursing care to aggregates.|Prereq: Nurs 422(P).

434 Nursing Informatics and Technology. 3 cr. U. Basic concepts of informatics are introduced with focus on application to clinical practice to improve safety and quality of care.|Prereq: Nurs 419(P).

440 Nursing Specialty: (Subtitled). 2 cr. U. Topics of current interest in nursing specialty areas.|May be retaken w/chg in topic to 8 cr. max with cons instr. Prereq: Nurs 442(P).

442 Nursing Practice I. 8 cr. U. Clinical practice course for providing nursing care for adults and children experiencing acute and/or chronic health problems.|Prereq: Nurs 334(P) & 403(C); or cons instr.

443 Nursing Practice II. 8 cr. U. Clinical practice course for providing nursing care to individuals, families, groups, and communities.|Prereq: Nurs 442(P) or cons instr.

445 Capstone Practicum for Registered Nurses. 3 cr. U. Synthesis of knowledge from current and past learning experiences and application of clinical decision making to provide comprehensive nursing care to individuals, families, groups, and communities.|Counts as repeat of Nurs 445X. Prereq: Prior to Fall, 2014: UWS Nsg 317(P), 341(P), 434(P), 437(P), & 444(P). Fall, 2014 and beyond: UWS Nsg/Nurs/Flex 407(P), 441(P), 446(P), 447(P), 453(P) & 454(P), English 102 (P).

448 Mental Health Across the Care Continuum. 3 cr. U. This course focuses on nursing care of individuals, groups, and families experiencing acute and chronic mental health conditions across the lifespan and the continuum of care.|Prereq: none.

460 Legal Aspects of Nursing. 2 cr. U. Current legal aspects and issues in nursing, including courts, licensure problems, legal status of nursing and health personnel, contracts, torts, negligence, crimes, and wills.|Prereq: jr st or cons instr.

475 Global Health: Ethics and Human Rights. 3 cr. U/G. Ethics and human rights issues related to disparities in financial, educational, technological, environmental, and political resources available to support healthy populations across the globe.|Prereq: jr st; Nurs 110(P) or cons instr.

476 Professional Role 4: Leading in Complex Systems. 3 cr. U. Synthesis of knowledge, skills, and attitudes for leading in complex healthcare environments.|Prereq: Nurs 430(P).

477 Health and Illness Concepts 5: Complex. 3 cr. U. Application of selected concepts to individuals/families with complex health and illness needs.|Prereq: Nurs 432(P).

478 Clinical Practicum 4: Clinical Intensive. 3 cr. U. Practicum focusing on nursing care to individuals, groups, and families experiencing complex health care problems and life events throughout the lifespan.|Prereq: Nurs 433(P)

479 Clinical Practicum 5: Capstone. 3 cr. U. Capstone clinical practicum focusing on care delivery, care coordination, leadership, and transition to practice.|Prereq: Nurs 478(P).

480 Transition to Professional Practice. 3 cr. U. Exploration of the new graduate professional role to enable a smooth transition to the first registered nurse position. Course is delivered in hybrid format.|Prereq: Nurs 478(C) & 433(P).

490 Special Studies in Nursing. 1-5 cr. U. Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.|May be retaken to max of 5 cr. Prereq: cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in especially prepared program course work.|May be retaken with change in topic; max of 9 cr for grad students. Prereq: acceptance for Study Abroad Prog.

620 Global Food Security and Systems. 3 cr. U/G. An in-depth investigation of global food systems and their impact on food security and development.|Prereq: jr st.

682 Professional Role in Health Care Systems II. 2 cr. U/G. Exploration and analysis of organizational environments, communication, and quality initiatives within interdisciplinary health care systems.|Prereq: Nurs 681(P).

687 Professional Nursing Practice Internship. 1 cr. U/G. Intensive clinical practice experience in a selected area of nursing.|Prereq: Nurs 686

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OCCTHPY Occupational Therapy

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151 Foundations of Scientific Inquiry for Occupational Studies. 3 cr. U. Foundation of basic inquiry skills needed to pursue a career in health sciences. Attention is paid to observation, collection, visualization and reporting skills.|Counts as repeat of OccThpy 290 w/same topic. Prereq: none.

201 Introduction to Occupational Science and Technology. 3 cr. U. Survey of professions related to disability, occupation, assistive and quality of life technologies and rehabilitation.|Prereq: none.

220 Gizmos and Gadgets: Introduction to Assistive Technology. 1-3 cr. U. Survey of historical, current, and emerging assistive technology devices, services, and rehabilitation and disability through use of internet resources, print resources and guest speakers.|Counts as repeat of OccThpy 290 w/same topic. May be retaken to 3 cr max. Prereq: none.

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.|BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Prereq: soph st or cons instr.

250 Concepts of Time and Occupation. 3 cr. U. Examines the science and application of time related to human occupation, activity, and health through interactive and hands-on learning activities, videos and guest speakers.|Prereq: none.

260 Enhancing Health Through Activity, Occupation and Technology I. 3 cr. U. Introduction to the role of activities, occupations, and technology in the promotion of good health and as interventions for individuals, groups and communities.|Prereq: none.

280 Applied Human Anatomy for Health Professionals. 3 cr. U. In-depth study of the human body with emphasis on applications pertinent to health professionals.|Special course fee assessed for lab materials. Prereq: Bio Sci 203(P) or cons instr.

290 Topics in Occupational Therapy: (Subtitled). 1-3 cr. U. Topics of current interest in occupational therapy. See Schedule of Classes for course offerings. May be retaken with change in topic to max of 9 cr. Prereq: none. Additional prereqs will be listed in the semester Timetable as appropriate.|May be retaken w/chg in topic to max of 9 cr. Prereq: none.

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- 297 Study Abroad - Occupational Therapy: (Subtitled). 1-12 cr. U.** Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work. |May be retaken w/chg in topic. Prereq: acceptance to Study Abroad Prog.
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- 301 Applied Neuroscience for Health Professionals. 3 cr. U.** A functional approach to the human nervous system and neuropathology. Orientation to evaluation and treatment for neurological disorders. |Prereq: admis to OccThpy prog; KIN(HMS) 325(P) or (C), or cons instr.
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- 305 Applied Psychopathology. 3 cr. U.** Survey of psychopathology, psychosocial rehabilitative treatment theory and practice used in mental health settings. Lec, Dis. |Prereq: Acceptance in OccThpy prog; or cons instr.
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- 308 Musculoskeletal Pathology and Occupational Function. 2 cr. U.** The origin, nature, and course of musculoskeletal disorders are described and analyzed within the context of occupational performance and occupational biomechanics. |Prereq: admis to OccThpy prog.
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- 315 Group Process in Rehabilitation. 3 cr. U.** Study of, and participation in, group process specific to rehabilitation programs. Experimental. |Prereq: jr st in OccThpy or TherRec, OccThpy 305(P) or TherRec 308(P), or cons instr.
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- 320 Introduction to Ergonomics for Healthcare Professionals. 3 cr. U.** Introduction to ergonomics and work-related musculoskeletal disorders with special focus on work and settings relevant to Occupational Therapy and other healthcare professions. |Prereq: jr st or cons instr.
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- 322 Program Development in Rehabilitation. 2 cr. U.** Study of the development process for programs in rehabilitation. Lecture, Discussion, Experiential learning. |Prereq: jr st in OccThpy prog or cons instr.
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- 323 Program Management in Rehabilitation. 2 cr. U.** Study of the management of programs in rehabilitation. |Prereq: sr st in OccThpy prog or cons instr.
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- 326 Occupational Therapy in Pediatrics I. 3 cr. U.** Evaluation of occupational performance and planning for treatment for the birth to 21 y/o population with occupational dysfunction. Includes experiential component. |Prereq: jr st in OccThpy; OccThpy 301(P).
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- 328 Occupational Therapy in Physical Rehabilitation I. 3 cr. U.** Application of biomechanical principles to OT evaluation and treatment. Lec, lab. |Prereq: Acceptance in OccThpy prog.
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- 329 Occupational Therapy in Gerontology. 3 cr. U/G.** In-depth study of occupational therapy principles and practice in working with the elderly in institutions and the community. |Prereq: jr st in OccThpy Prog.
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- 330 Foundations of Professional Practice in Occupational Therapy. 1-3 cr. U.** Foundation for successful professional practice in the field of occupational therapy. Students will apply knowledge of core professional documents, ethics and leadership. Specific cr announced in Schedule of Classes each time course is offered. |May not be retaken for cr. Prereq: jr st in Occthy Prog.
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- 340 Evidenced for Practice I: Applications of Biostatistics. 3 cr. U.** Applications of instrumentation, biostatistics and epidemiology in occupational studies. Emphasizes research design, measurement and interpretation of statistical results. |Prereq: jr st, OccThpy 151(P), Kin 270(P).
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- 341 Evidence for Practice II: Appraising Evidence. 3 cr. U.** Critically examines current research evidence in occupational studies and health care. Emphasizes spectrum of quantitative and qualitative approaches. Prereq: OccThpy 340(C).
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- 350 Professional Development Seminar I. 1 cr. U.** Integrate academic knowledge with observation skills; refine skills through client observation; complete facility tours and paired visits to OT-related sites. |Prereq: Acceptance in OccThpy

prog; or cons instr.

360 Enhancing Health Through Activity, Occupation and Technology II. 3 cr. U. Integrate understanding of relationship of occupation and health, occupation-based intervention and technology. Reflect on personal occupations and design interventions for individuals, groups, communities.|Prereq: Acceptance in OccThpy prog. or cons instr.

390 Professional Development Seminar II. 1 cr. U. Integrate OT academic knowledge with observation and intervention skills; refine skills through client interaction; complete 1st Level I fieldwork|Prereq: jr st in OccThpy prog; OccThpy 350(P); or cons instr.

401 Overview of Medical Conditions. 3 cr. U. Overview of common impairments and related diagnoses such as spinal cord injury, head injury, burns, cognitive disorders and psychiatric disorders with implications for OT practice.|Prereq: TherRec 202(P) or cons instr.

405 Occupational Therapy in Physical Rehabilitation II. 3 cr. U. Neurodevelopmental evaluation and treatment procedures for persons with central nervous system damage. Lec, lab.|Prereq: sr st in OccThpy prog; OccThpy 308(P); OccThpy 401(P).

411 Occupational Therapy and Psychosocial Rehabilitation. 3 cr. U. Advanced clinical techniques in psychosocial occupational therapy emphasizing social skills training, life coping skills, OT evaluations and intervention planning in rehabilitation and community settings.|Prereq: sr st in OccThpy prog; OccThpy 305(P) & 315(P).

420 Principles of Human Factors and Usability. 3 cr. U. Introduction to principles of human factors, interaction, and usability as they pertain to the design of consumer devices and assistive technologies.|Counts as repeat of OccThpy 590 w/same topic. Prereq: jr st; OccThpy 220(P); or cons instr.

425 Occupational Therapy Senior Seminar. 2 cr. U. Summary and analysis of occupational therapy services primarily in physical dysfunction treatment situations. 4-week mini-course.|Prereq: 2 sem sr st in OccThpy prog.

426 Occupational Therapy in Pediatrics II. 3 cr. U. Evaluation of occupational performance and treatment implementation for the birth to 21 y/o population with occupational dysfunction. Lec and lab.|Prereq: sr st in OccThpy prog; OccThpy 326(P).

427 Essentials of Splinting. 3 cr. U/G. Evaluation and splint fabrication of upper and lower extremity and trunk. Hands-on lab experience in splint design using various patterns, applications, and materials.|Prereq: Bio Sci 203(P); Hum Kin 320(P) or cons instr.

430 Foundations of Professional Practice in Occupational Therapy III. 1-3 cr. U. Fieldwork, lecture, discussions on professional topics; OT in health, education, and community settings. Specific cr announced in Schedule of Classes each time course is offered.|May not be retaken for cr. Prereq: OccThpy 330(P) & 331(P).

460 Professional Development Seminar III. 1 cr. U. Integrate OT academic knowledge with observation and interaction skills; develop clinical techniques and analyze and reflect on skills; complete 2nd Level I fieldwork|Prereq: sr st in OccThpy prog; OccThpy 390(P); or cons instr.

490 Professional Development Seminar IV. 1 cr. U. Integrate OT academic knowledge with interaction skills; develop clinical techniques and analyze/reflect on skills; work on preparation for Level II fieldwork.|Prereq: sr st in OccThpy prog; OccThpy 460(P).

497 Study Abroad - Occupational Therapy: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work.|May be retaken w/chg in topic. Prereq: acceptance to Study Abroad Prog.

505 Work and Disability. 3 cr. U. Constructs related to employment of people with disabilities (e.g. legislation;

theories; interventions; accommodations; job placement, development, support) taught through experiential learning and case studies.|Prereq: jr st, or cons instr.

519 Therapeutic Communication. 3 cr. U/G. Development of therapeutic communication skills necessary for all occupational therapy practice settings.|Prereq: sr st or grad st in OT prog; or cons instr.

521 Essentials of Assistive and Rehabilitation Technology. 3 cr. U. Fundamentals and applications of assistive and rehabilitation technology for the home, school, hospital, work place and community.|Prereq: jr. st, OccThpy 220(P) or cons instr.

530 Contemporary Issues and Professional Preparation in Occupational Studies. 3 cr. U. Exploration of contemporary issues and careers in the general areas of occupational studies. Attention is on preparation for entry level employment and/or graduate education.|Prereq: sr st, OccThpy 401(C) or cons instr.

540 Evidence for Practice I. 3 cr. U/G. Introduction to research methods and measurement in occupational therapy with a focus on the scientific process and evidence.|Prereq: sr st or grad st in OT prog.

541 Evidence for Practice III: Creating Evidence. 3 cr. U/G. Seminar to study the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development.|Prereq: sr st in OccThpy & OccThpy 341(P); or grad st in OccThpy; or cons instr.

542 Evidence for Practice II. 3 cr. U/G. Study of the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development.|Prereq: sr st or grad st in OT; or cons instr.

590 Topics in Occupational Therapy: (Subtitled). 1-3 cr. U/G. Topics of current interest in O.T. see Schedule of Classes for course offerings.|May be retaken with change in topic to max of 9 cr. Prereq: jr st in OccThpy prog or cons instr.

593 Introduction to Biomedical and Rehabilitation Instrumentation. 3 cr. U/G. Familiarizes students with medical instrumentation in post acute care settings. Basic electrical, electronic and mechanical terminologies.|Prereq: jr st or cons instr.

595 Vision I: Introduction to Low Vision & Visual Impairment. 3 cr. U/G. Introduces student to visual impairment including blindness and 'low vision'. Structure and function of the visual system and most common types of pathology.|Prereq: jr st or cons instr.

596 Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention. 3 cr. U/G. Functional implications of visual system pathology; focus on practical aspects of adapting to visual impairment, low vision evaluation and access to service/resources.|Prereq: jr st or cons instr.

599 Independent Study. 1-6 cr. U. |May be retaken for degree cr. Prereq: jr st & cons instr.

610 Advances in Occupational Science. 3 cr. U/G. Explores origins and recent developments in occupational science. Examines the multidimensional nature of occupation; the dynamics of person, environment, occupation interaction; applications to practice.|Prereq: sr st in Baccalaureate OccThpy prog or grad st.

620 Introduction to Assistive and Rehabilitation Technology. 3 cr. U/G. Principles of assistive and rehabilitation technology application and foundation skills for professionals working with people with disabilities to evaluate products and strategies for their use.|Prereq: jr st; OccThpy 401(P) or cons instr.

625 Design and Disability. 3 cr. U/G. Universal design principles/theories related to creating access for individuals with disabilities. Enables professionals to evaluate and provide recommendations for product and environment universal design.|Prereq: jr st or cons instr.

634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities. 3 cr. U/G. Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings. |ExcEduc 634, Occthy 634, & ComSDis 634 are jointly offered; they count as repeats of one another. Prereq: jr st.

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PEACEST Peace Studies

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201 Introduction to Conflict Resolution and Peace. 3 cr. U. Violent and peaceful strategies of conflict resolution; viability of various plans for permanent world peace.|Prereq: none.

219 Topics in Power and Conflict. 3 cr. U. Examination of topics concerned with power, conflict, and non-violent methods of conflict resolution.|Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in Peace Studies, Upper Division. 1-6 cr. U. Application of advanced principles of social sciences in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in social sciences; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

699 Advanced Independent Study. 1-6 cr. U. Advanced level independent work under the supervision of a peace studies faculty or academic staff member.|Retakeable w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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PHILOS Philosophy

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101 Introduction to Philosophy: (Subtitled). 3 cr. U. Introduction to the philosophical thinking through examination of such topics as Plato's and Aristotle's contribution to Western civilization; free will and moral responsibility; God, morality, and knowledge.|May not be retaken for add'l cr; may be repeated for higher grade. Prereq: none.

111 (effective 09/04/2018) Introduction to Logic - Critical Reasoning. 3 cr. U. Students learn a broad variety of fundamental logical methods - techniques used to identify, analyze, model, evaluate, and criticize different types of real-world reasoning.|Jointly offered w/ Math 111; they count as repeats of one another. Prereq: ACT math subscore of 18 or higher, or Math Placement Level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in Math 090; or (c) grade of D in Math 094.

111 Introduction to Logic - Critical Reasoning. 3 cr. U. Students learn a broad variety of fundamental logical methods - techniques used to identify, analyze, model, evaluate, and criticize different types of real-world reasoning.|Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

204 Introduction to Asian Religions. 3 cr. U. Philosophy of Asian religions; emphasis on the Indian experience of Hinduism and Buddhism, and the Chinese experience of Buddhism, Confucianism, and Taoism.|Prereq: none.

207 Religion and Science. 3 cr. U. The alleged conflict between science and religion: case histories, analysis of the issues, implications for the concepts of religious beliefs and scientific knowledge.|Prereq: none.

211 Elementary Logic. 3 cr. U. Introduction to traditional and modern logic; the concepts of argument, validity; proof, fallacy, persuasion, and reasoning; the development of certain practical skills.|Prereq: none.

212 Modern Deductive Logic. 3 cr. U. A second course in symbolic logic that develops the skills in symbolic translation and proof construction acquired in Philos 211, investigates more abstractly the properties of formal systems

of proof.|Prereq: grade C or better in Philos 211(P).

213 Introduction to the Philosophy of Science. 3 cr. U. Course for beginning students dealing with such problems as induction vs deduction; hypotheses and theories and their relation to observation; explanation and prediction.|Prereq: none.

215 Belief, Knowledge, and Truth: An Introduction to the Theory of Knowledge. 3 cr. U. Grounds of rational belief and knowledge and methods used for obtaining them, with particular emphasis on problems of evidence and truth.|Prereq: none.

217 Introduction to Metaphysics. 3 cr. U. Introduction to the major problems of metaphysics, such as the mind-body problem, the free will-determinism issue, and the nature of causality.|Prereq: none.

232 Topics in Philosophy: (Subtitled). 3 cr. U. A course for beginning students dealing with such philosophical problems as freedom of will, skepticism, or a historical figure or movement.|May be retaken w/chg in topic to 6 cr max. Prereq: none.

235 Philosophical Aspects of Feminism. 3 cr. U. A course for beginning students dealing with selected philosophical issues underlying feminist ideas and problems.|Prereq: none.

237 Technology, Values, and Society. 3 cr. U. Discussion of controversies over whether modern technology is a progressive or regressive force in human life; impact of technology on individual and institutional values.|Prereq: none.

241 Introductory Ethics. 3 cr. U. Development of moral ideas. Criticism of ethical theories and of social institutions such as state, property, and family.|Prereq: none.

242 Introduction to Social and Political Philosophy. 3 cr. U. Opposing philosophical views about man and his political and social life.|Prereq: none.

243 Moral Problems: (Subtitled). 1 cr. U. Intensive study of one moral issue of current relevance.|May be retaken w/chg in topic to 6 cr max. Prereq: none.

244 (effective 09/04/2018) Ethical Issues in Health Care: (Subtitled). 3 cr. U. Study of ethical issues facing patients, providers, and public policy planners: e.g., ethical response to terminal illness, equity in health care delivery.|May be retaken w/chg in topic to 6 cr max. Prereq: none.

244 Ethical Issues in Health Care: (Subtitled). 3 cr. U. Study of ethical issues facing patients, providers, and public policy planners: e.g., ethical response to terminal illness, equity in health care delivery.|May be retaken w/chg in topic to 6 cr max. Prereq: none.

245 Critical Thinking and the Law: (Subtitled). 3 cr. U. Development of critical and analytical skills using legal reasoning as a model and law texts as sources.|May be retaken w/chg in topic to 6 cr max. Prereq: none.

250 God, Faith and Reason. 3 cr. U. Major questions: What is God? Can God's existence (or non-existence) be proved? How? What is religious faith? Is faith rational? Is faith ethical or wise?|Prereq: none.

253 Philosophy of the Arts. 3 cr. U. The creation, appreciation, and criticism of works of art. Sources and use of standards.|Prereq: none.

271 Philosophical Traditions: (Subtitled). 3 cr. U. Survey of one significant philosophical tradition.|May be retaken w/chg in topic to 6 cr max. Prereq: none.

272 Philosophical Classics: (Subtitled). 1 cr. U. Intensive study of one short work of special importance in the philosophic literature.|May be retaken w/chg in topic to 6 cr max. Prereq: none.

289 Internship in Philosophy, Lower Division. 1-6 cr. U. Application of basic principles of philosophy in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in philos; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined, and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

303 Mind and Knowledge. 3 cr. U/G. Studies the natures of action, belief and knowledge and the constraint that knowledge imposes on responsible action and belief, both in individuals and across society. |Prereq: jr st; Philos 101(P) or 215(P).

317 Metaphysics. 3 cr. U/G. Study of perennial philosophical issues about the nature of the world and our relation to it; realism, idealism, causality, the mind-body problem, time, truth. |Prereq: jr st & 3 cr in philos.

324 Philosophy of Science. 3 cr. U/G. Study of traditional and recent views about the nature, aim and ways of evaluating scientific theories, with reference to both the natural and social sciences. |Prereq: jr st & 3 cr in philos.

332 Philosophical Problems: (Subtitled). 3 cr. U. Specific philosophical topic or issue, such as contemporary aesthetics, personal identity, the mind-body problem, the nature of beauty, equality, the just-war doctrine. |Not open for cr to students w/cr in Philos 381 w/similar subtitle. May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 3 cr in philos.

335 Philosophy of Biology. 3 cr. U/G. Philosophical study of topics in the biological sciences, such as evolutionary explanations, genetic determinism, the definition of life, what constitutes a biological individual. |Prereq: jr st; 3 cr in philos.

337 Environmental Ethics. 3 cr. U/G. Theories of environmental ethics, practical application. Responsibilities to nature/future generations; moral value/status of environment and organisms; philosophical issues concerning environmental studies and ecology. |Prereq: jr st.

341 Modern Ethical Theories. 3 cr. U. Ethical theories and problems as discussed in the late nineteenth, twentieth, and twenty first-centuries. |Prereq: jr st; 3 cr in philos; satisfaction of OWC-A.

349 Great Moral Philosophers. 3 cr. U/G. Major themes of moral philosophy from Plato and Aristotle to Bentham and Mill, with critical study of the outstanding works. |Prereq: jr st & 3 cr in philos.

350 Introduction to the Comparative Study of Religion. 3 cr. U/G. Analysis of the nature of religion, of various comparative typological classifications and methodological approaches; basic problems in understanding the varieties of religious experience and expression. |Prereq: jr st; Philos 204(P), Philos/Hist/Hebr St 275(P) or Anthro 203(P).

351 Philosophy of Mind. 3 cr. U/G. Critical study of the nature of mind and its relation to body and matter, with emphasis on recent advances in philosophy and psychology. |Prereq: jr st & 3 cr in philos.

355 Political Philosophy. 3 cr. U/G. Philosophical doctrines involved in justification of political decisions; analysis of fundamental concepts such as the common good, authority, justice, natural law, and natural rights. |Prereq: jr st; Philos 242(P) or a course in ethics.

358 Action, Will, and Freedom. 3 cr. U/G. The nature of the will, agency, intentional action, and the problem of free

will and determinism.|Prereq: jr st, 3 cr philos; or grad st.

360 Philosophy of Perception. 3 cr. U/G. Major issues in the philosophy of perception: the nature of sensation, perception and inference, the relationship of perception and belief.|Prereq: jr st; 3 cr in Philos.

381 Honors Seminar: (Subtitled). 3H cr. U. Intensive study of selected philosophers, movements, or philosophical problems.|May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P);cons Honors College dir.

384 The Philosophy of Law. 3 cr. U/G. The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.|Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another. Prereq: jr st; 3 cr philos or previous course in political theory or law studies recom.

430 Great Thinkers of the Ancient Period. 3 cr. U/G. An examination of, and engagement with, the thought of some of the major philosophers of the ancient period, including the Pre-Socratics, Plato, and Aristotle.|Prereq: jr st & 3 cr in philos.

431 History of Medieval Philosophy. 3 cr. U/G. Critical and historical examination of writings of medieval philosophers such as Augustine, Anselm, Aquinas, Duns Scotus, Ockham, Al Farabi, Maimonides.|Prereq: jr st & 3 cr in philos.

432 Great Thinkers of the Modern Period. 3 cr. U/G. An examination of the thought of representative philosophers of the 17th and 18th centuries.|Prereq: jr st & 3 cr in philos.

433 Nineteenth-Century Philosophers. 3 cr. U/G. Hegel, Schopenhauer, Marx, Kierkegaard, Nietzsche, and others. The conflict of idealistic, materialistic, and irrationalist philosophies of the nineteenth century and their influence on its social, literary, and religious movements.|Prereq: jr st & 3 cr in philos.

434 Survey of Contemporary Philosophy. 3 cr. U/G. Comparison of problems and solutions dealt with by currently active movements and philosophers, including Carnap, Croce, Dewey, Heidegger, Husserl, Moore, Russell, Sartre, and Wittgenstein.|Prereq: jr st; 3 cr in philos.

435 Existentialism. 3 cr. U/G. Analysis of existentialist thinkers such as Kierkegaard, Nietzsche, Heidegger, Sartre, and Merleau-Ponty.|Prereq: jr st & 3 cr in philos.

437 Phenomenology. 3 cr. U/G. Husserl's phenomenological method and its impact on recent continental philosophy, e.g. Heidegger, Sartre, Merleau-Ponty.|Prereq: jr st & 3 cr in philos.

461 Islamic Philosophy and Mysticism. 3 cr. U/G. Problems central to Islamic theology, philosophy, and mysticism, and their relations to the teachings of Islam.|Prereq: jr st & 3 cr in philos.

474 Contemporary Religious Thought: 3 cr. U/G. Analysis of two or more contemporary religious thinkers (e.g., Buber, Heschel, Tillich, Barth, Bultmann, death-of-God theologians, Moltmann, Pannenberg, Rahner, Chardin). Difficulties and objections are discussed.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st, 3 cr in philos.

475 Special Topics in Indian Religious Thought: (Subtitled). 3 cr. U/G. Intensive study of selected Hindu and Indian Buddhist thinkers and schools of thought, e.g. the Vedanta of Sankara and Ramanuja, Mahayana thought, modern Vedanta, Gandhi.|May be retaken w/chg in topic to 9 cr max. Preq: jr st; 3 cr in philos.

489 Internship in Philosophy, Upper Division. 1-6 cr. U. Application of advanced principles of philosophy in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in philos; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course

work level, content and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

511 Symbolic Logic. 3 cr. U/G. First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability. | Jointly-offered w/& counts as repeat of CompSci/Math 511. Prereq: jr st, either Philos 212(P) or 6 cr math at the 300-level or above; or grad st.

516 Language and Meaning. 3 cr. U/G. Philosophical issues of the semantics, syntax and pragmatics of language; relations between philosophy of language and metaphysics, epistemology and philosophy of science. | Prereq: jr st & Philos 101(P) or 432(P).

517 Special Problems in the Philosophy of Language and Linguistics: 3 cr. U/G. In depth study of one or more topics concerning the nature of language; its acquisition, use and formal structures. | May be retaken w/chg in topic & cons advisor & instr to 6 cr max. Prereq: jr st; 3 cr in philos.

518 Philosophy of History. 3 cr. U/G. The nature of historical knowledge and belief in terms of the justification of historical narration, explanation and prediction. | Prereq: jr st & 3 cr in philos.

519 Special Problems in Metaphysics and Epistemology: (Subtitled). 3 cr. U/G. Intensive study in such topics as perception, skepticism, induction, mathematical knowledge, universals, causality, substance, determinism, possibility. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st & 3 cr in philos.

520 Philosophy of the Natural Sciences. 3 cr. U/G. The nature and function of science; the logic of scientific method; clarification of such concepts as cause, law, theory, probability, determinism, and teleology. | Prereq: jr st & 3 cr in philos.

521 Philosophy of the Social Sciences. 3 cr. U/G. The nature and scope of the social sciences; explanatory, interpretive, and normative concerns in theory construction, their interconnection, and their methodological implications. | Prereq: jr st & 3 cr in philos.

522 Special Topics in the Philosophy of Science: (Subtitled). 3 cr. U/G. Consideration of one or more of the following: logic of theory construction, theoretical entities, measurement, nature of laws, conventionalism, operationalism, and induction. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

532 Philosophical Problems: (Subtitled). 3 cr. U/G. Intensive study of one or two particular problems, such as determinism and freedom, ethical relativism, memory, or perception. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st & 3 cr in philos.

535 Philosophical Topics in Feminist Theory: (Subtitled). 3 cr. U/G. Study of selected feminist theorists with an emphasis on past or contemporary thinkers. Attention will be paid to the philosophical importance of the problems raised. | May be retaken w/chg in topic to 6 cr max. Philos 535 & Wmns 535 are jointly offered; with same topic, they count as repeats of one another. Prereq: jr st; a course in philos or women's stds.

542 Punishment and Responsibility. 3 cr. U/G. Views on the moral permissibility of punishment and other forms of penalization; the foundations of a general theory of moral responsibility. | Prereq: jr st & 3 cr in philos. Philos 241(R) or social science background recom.

551 Aristotle. 3 cr. U/G. Intensive study of one or more of Aristotle's major works or of themes and problems in Aristotle's thought. Particular attention to careful analysis of the texts. | Prereq: jr st; 3 cr philos; Philos 430(R).

554 Special Topics in the History of Modern Philosophy: (Subtitled). 3 cr. U/G. Intensive study of a philosopher, movement, or historical problem in modern philosophy, e.g., Spinoza, British empiricists, Locke's influence upon the Enlightenment, overthrow of Hegelian idealism. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 3 cr philos; Philos 432(R); or cons instr.

555 Recent Philosophy: (Subtitled). 3 cr. U/G. Intensive study of one or more philosophers or philosophical movements of the recent past. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 3 cr philos.

562 Special Topics in Ethics and Social and Political Philosophy: (Subtitled). 3 cr. U/G. Intensive study of issues such as the concept of law, punishment, liberty, civil disobedience, the public good, and the applicability of scientific method to social issues. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st & 3 cr in philos.

681 Seminar in Advanced Topics: (Subtitled). 3 cr. U/G. Seminar on a philosopher, philosophical movement, issue, or problem for majors and graduate students. Research papers required. Additional prereqs announced in Schedule of Classes each time course is offered. | May be retaken w/chg in topic to 9 cr max. Prereq: sr st & 12 cr in philos at 300-level or above; or grad st.

685 Senior Capstone Research Seminar: (Subtitled). 3 cr. U. Seminar study of a philosopher, philosophical movement, text, or topic for senior philosophy majors. Research paper and presentation required. | Satisfies L&S research req. May be retaken w/chg in topic to 6 cr max. Prereq: sr st; declared Philos major; or cons instr.

699 Independent Work. 2-3 cr. U. See Advanced Independent Work, undergrad bulletin. | May be retaken w/chg in topic to 9 cr max. Only 6 cr count toward Philos major. No more than 3 cr with any one instr except with writ cons dept. Prereq: jr st; 3.0 in major or 3.0 overall gpa, & writ cons instr, dept chair, & asst dean for SAS.

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PHYSICS Physics

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100 Quantitative Preparation for Physics. 2 cr. U. Introductory course in general physics designed for the student with little or no previous science training. |Fee for 3 cr assessed. Not open to students w/cr in Physics 110(ER), 120(ER), or 209(ER). Prereq: Math Placement Level 10.

107 Physics in Everyday Life. 3 cr. U. Selected topics for citizens in a technological world. Emphasis on those aspects of science important to an understanding of our surroundings. For non-science majors. |May not be taken conc with or after having taken Physics 120(ER) or 209(ER). Prereq: none.

108 Laboratory for Physics in Everyday Life. 1 cr. U. Experiments correlated with Physics 107. |Prereq: Physics 107(C).

110 Physics for the Health Professions. 4 cr. U. An introductory course without laboratory for students in health-related pre-professional programs. Topics include mechanics, fluids, heat, sound, electricity, magnetism, electrical devices, optics, and radioactivity. 3 hrs lec, 1 hr dis. |May not be taken conc with or after having taken Physics 120(ER) or 209(ER). Prereq: H.S. general science; Math Placement Level 20.

120 General Physics I (Non-Calculus Treatment). 4 cr. U. Mechanics, wave motion, heat, and sound. 3 hrs lec, 2 hrs dis. |Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation. Prereq: Math Placement Level 20 or grade of C or better in Physics 100(P); HS trig or Physics 100 strongly recom.

121 General Physics Laboratory I (Non-Calculus Treatment). 1 cr. U. Experiments correlated with lecture material of Physics 120. |Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation. Prereq: Physics 120(C).

122 General Physics II (Non-Calculus Treatment). 4 cr. U. Electricity, optics, modern physics. 3 hrs lec, 2 hrs dis. |Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation. Prereq: Physics 120(NP).

123 General Physics Laboratory II (Non-Calculus Treatment). 1 cr. U. Experiments on topics related to the lecture material of Physics 122. |Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation. Prereq: Physics 122(C).

185 Basic Physics for Teachers. 3 cr. U. Simple machines; work, energy and power; heating and cooling; static

electricity and elementary electrical circuits; waves. 2 hrs lec; 2 hrs lab/dis. | Not open for cr to students with cr in Physics courses numbered 110 or above. Prereq: Math 175(P) & cons instr.

194 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. | May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

209 Physics I (Calculus Treatment). 4 cr. U. Selected topics in mechanics, wave motion, sound, and heat. 3 hrs lec, 2 hrs dis. | Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation. Prereq: Math 227(C), 228(C), or 232(C).

210 Physics II (Calculus Treatment). 4 cr. U. Continuation of Physics 209. Electromagnetic field theory and optics. 3 hrs lec, 2 hrs dis. | Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation. Prereq: grade of C- or better in Physics 209(NP); Math 229(C) or 233(C).

214 Lab Physics I (Calculus Treatment). 1 cr. U. Experiments in mechanics, wave motion, heat, and thermodynamics. 3 hrs lab. | Any combination of Physics 120, 121, 209, 214, 219 carries 5 cr max toward graduation. Prereq: Physics 209(C).

215 Lab Physics II (Calculus Treatment). 1 cr. U. Experiments in electricity, magnetism, and optics. 3 hrs lec. | Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation. Prereq: Physics 210(C).

219 Physics I: Calculus-Based, Studio Format. 5 cr. U. Basic kinematics; Newton. Selected topics in mechanics, wave motion, sound, and heat. 8 hrs lec/lab. | Not open to students w/cr in Physics 209. Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation. Prereq: Math 227(C), 228(C), or 232(C).

220 Physics II: Calculus-Based, Studio Format. 5 cr. U. Electromagnetic field theory and optics. | Not open to students w/cr in Physics 210. Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation. Prereq: grade of C or better in Physics 219(NP); Math 229(C) or 233(C).

265 Physics and the Energy Problem. 3 cr. U. Study of how the laws of physics (particularly 1st and 2nd Laws of Thermodynamics) limit society's options in dealing with scarcity of utilizable energy. | Prereq: H.S. algebra; Physics 107(P), 110(P), 120(P), or 209(P).

270 Introduction to Computational Physics. 3 cr. U. Use of computers to solve physics problems, including particle collisions, chaotic systems, planetary motion, and other topics related to relativity and quantum mechanics. | Prereq: Physics 209(P); Math 233(C).

289 Internship in Physics, Lower Division. 1-6 cr. U. Application of basic principles of physics in a research, business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in physics; 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance into UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

305 Medical Physics. 3 cr. U. Applications of physics to living systems & medical diagnostics. 3 hrs lec. | Primarily for premed students and others in the medical & biological sciences. Approved for Premed Stds Cert Prog. Prereq: grade of B+ or better in Physics 209(P). (Conc reg in Physics 210 strongly recom).

306 Introduction to Biophysics. 3 cr. U. Physical foundations of cellular phenomena; physical laws of complex biological systems; imaging and instrumentation for biophysics. 3 hrs lec. | Approved for Premed Stds Cert Prog. Prereq: Physics 122(P) or 210(P); Chemistry 104(P) or 105(P).

309 Physics III: Modern Physics. 3 cr. U. Elementary quantum physics, atomic and molecular physics, solid state and nuclear physics. | Not open for cr to students who have had Physics 341. Prereq: Physics 210(NP); Math 234(C).

317 Thermodynamics. 3 cr. U. Classical thermodynamics, including entropy, the use of thermodynamic potentials, and applications to pressure-volume and other systems. Some basic statistical physics may be included. | Prereq: Physics 210(NP).

325 Optics. 4 cr. U. Geometric and physical optics, image formation, interference, diffraction, polarization, optical instruments, resolving power, coherence, lasers, holography. Selected experiments in optics. Studio-format course. | Counts as repeat of Physics 325 & 2 cr of Physics 410. Prereq: Math 234(P) & Physics 309(C) or cons instr.

351 Basics of Condensed Matter Physics. 3 cr. U. Basic principles of condensed-matter physics. Crystals and amorphous materials; bonding; magnetic, thermal, and transport properties; band theory. | Counts as repeat of Physics 499 w/same topic. Prereq: Physics 309(P) or Chem 311(P).

370 Analytical and Numerical Methods in Physics. 3 cr. U. Solutions to various physics problems. Applications (both analytical and numerical) from mechanics, electrodynamics, quantum mechanics, astrophysics, condensed matter physics. Prereq: Physics 309(P); Math 234(P) or ElecEng 234(P); or cons instr.

370 (effective 09/04/2018) Analytical and Numerical Methods in Physics. 3 cr. U. Solutions to various physics problems. Applications (both analytical and numerical) from mechanics, electrodynamics, quantum mechanics, astrophysics, condensed matter physics. | Prereq: Physics 210(NP); Math 234(C) or ElecEng 234(C); or cons instr.

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics concerning history and the nature of physics as an intellectual discipline. | May be retaken w/chg in topic to 9 cr max. No cr toward major. Prereq: soph st; Honors 200(P); cons Honors College dir.

391 Undergraduate Research Participation. 1-6 cr. U. Independent research for undergraduates on faculty-supervised research projects. | May be retaken w/chg in topic to 6 cr max; non-repeatable for change of grade. Prereq: Physics 309(P); 3.25 GPA in physics courses; cons instr.

406 Introduction to Infrared Microspectroscopy. 3 cr. U. Microscopy and spectroscopy methods for identification of chemical composition introducing interdisciplinary opportunities in fundamental and industrial applications. | Prereq: Bio Sci 150(P) & 152(P); or Physics 209(P) & 210(P); or Chem 102(P) & 104(P); or Chem 105(P).

408 Experiments in Linear Electronics. 3 cr. U/G. Transistor and integrated circuit characteristics; electronic measurement and control. | No cr for students w/cr in ElecEng 330(R). Prereq: jr st; Physics 210(P).

409 Modern Physics Laboratory. 3 cr. U. Selected experiments in modern physics using advanced lab instrumentation. | Prereq: jr st; Physics 309(P) or cons instr.

411 Mechanics. 4 cr. U/G. Kinematics, vector analysis, conservation laws, oscillations, variational methods, chaos,

Lagrangian and Hamiltonian mechanics. | Prereq: jr st; Physics 210(NP).

420 Electricity and Magnetism I. 3 cr. U/G. Electrostatics, capacitance, boundary value problems, multipole expansion, dielectrics, magnetostatics, vector potential, magnetic properties of matter, motional emf, inductance, Maxwell's equations in differential form. | Counts as repeat of 2 cr of Physics 421. Prereq: jr st; Physics 210(NP); a grade of B- or better in Math 321(P); or Math 321(P) and a grade of B- or better in Physics 370(P); or grad st.

422 Electricity and Magnetism II. 3 cr. U/G. Conservation laws in electrodynamics, Maxwell's stress tensor, electromagnetic waves, absorption, dispersion, reflection and transmission of plane electromagnetic waves, wave guides, retarded potentials, radiation, electrodynamics and relativity. | Counts as repeat of 2 cr of Physics 421. Prereq: jr st, Physics 420(P); or grad st.

441 Introduction to Quantum Mechanics I. 4 cr. U/G. Historical background and experimental basis, De Broglie waves, correspondence principle, uncertainty principle, Schroedinger equation; hydrogen atom, electron spin, Pauli Principle, applications of wave mechanics. | Prereq: jr st; Physics 309(NP); Math 321(C).

442 Introduction to Quantum Mechanics II. 3 cr. U/G. Continuation of Physics 441, emphasizing perturbation theory and applications to multi-electron systems, including atoms, molecules, and solids. | Prereq: jr st; Physics 441(NP).

463 Introduction to Atmospheric Physics. 3 cr. U/G. Atmospheric phenomena not directly linked with the general circulation: refraction and scattering, visibility, radiation transfers, optics, aerosols and cloud particles, acoustics, radar, atmospheric electricity. | Not available for grad cr at this time. Prereq: jr st; Physics 210(P), Math 232(P), or Atm Sci 350(P).

489 Internship in Physics, Upper Division. 1-6 cr. U. Application of advanced principles of physics in a research, business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Physics; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Undergraduate Physics Seminar. 1 cr. U. Talks by faculty, visitors, and students on topics of current interest in physics, astronomy, and other science and engineering fields. | Cr/no cr only. Prereq: sr st; Physics 411(C), 421(C), or 441(C).

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

501 Special Topics: Mathematical Models of Physical Problems I. 3 cr. U/G. Selected topics in mathematics for study of the techniques and procedures for stating physical problems in mathematical terms and the physical interpretation of mathematical solutions. | Prereq: jr st; Physics 210(P); Math 234(P).

502 Special Topics: Mathematical Models of Physical Problems II. 3 cr. U/G. More selected topics in mathematical models. | Prereq: jr st; Physics 210(P); Math 234(P). Physics 501(R).

515 Statistical Mechanics. 3 cr. U/G. Brief survey of thermodynamics; statistical mechanics; classical and quantum gases. | Prereq: jr st; Physics 317(P) & 441(P).

517 Special Relativity. 3 cr. U/G. Relativistic kinematics, the Lorentz transformation, tensor calculus, applications to motion of particles, electromagnetism. | Prereq: jr st; Physics 411(R) & 421(R).

531 Principles of Quantum Mechanics I. 3 cr. U/G. Vector and Hilbert spaces; Schroedinger equation in 1, 2, and 3 dimensions; systems of many particles; symmetries; angular momentum.|Prereq: jr st; Physics 441(P).

532 Principles of Quantum Mechanics II. 3 cr. U/G. Continuation of 531. Spin; hydrogen atom; variational methods; WKB approximation; perturbation theory; scattering theory; Dirac equation.|Prereq: jr st; Physics 531(P).

541 Elementary Particles. 3 cr. U/G. Accelerators and detectors; special unitary groups; quark model of hadrons; Feynman diagrams; electromagnetic, weak and strong interactions of quarks and leptons; Higgs boson.|Prereq: jr st; Physics 441(P).

551 Introduction to Solid State Physics I. 3 cr. U/G. Crystal structure, reciprocal lattice; crystal binding; elastic waves; phonons, lattice vibrations; thermal properties of insulators; free electron Fermi gas. Band structure; semiconductor crystals; Fermi surface.|Prereq: jr st; Physics 441(P) or cons instr.

575 Vacuum Science and Technology. 3 cr. U/G. Viscous and molecular flow, vacuum materials and seals, metal-to-ceramic seals, evaporation and vapor pressures, vacuum pumps, vacuum gauges, mass spectrographs, chemical reactions at surfaces, outgassing.|Prereq: jr st; Physics 441(P).

606 Molecular, Cellular, and System Biophysics. 3 cr. U. Cell structure and the molecular basis of life. Molecular and cellular interactions. Supracellular organization, signaling, and communication. Selfsimilarity and cooperativity.|Prereq: jr st, Physics 210(P), & writ cons instr; or grad st.

610 The Art and Science of Teaching Physics. 1 cr. U/G. Participants critique lectures, videotapes of experienced teachers, each other; address conceptual problems facing beginning students; gain familiarity with demonstrations, classroom technology; discuss their own classes.|Prereq: appt as undergrad TA or grad st.

651 Introduction to Solid State Physics II. 3 cr. U/G. Transport, superconductivity, dielectric properties, ferroelectric crystals, magnetism, magnetic resonance, optical phenomena in insulators, nanostructures, non-crystalline solids, point defects, alloys, dislocations.|Prereq: jr st; Physics 551(P).

670 Electron Microscopy Laboratory. 3 cr. U/G. Diffraction, imaging, and spectroscopy methods for study of morphology, crystallinity, and composition of solids in a transmission electron microscope.|Prereq: sr st; Physics 551(P) or cons instr.

698 Research Experience for Teachers. 1-6 cr. U/G. Enrichment of students' physics background. Work with faculty mentor to develop an innovative teaching program for use in students' own classroom.|Open only to practicing science teachers with demonstrable expertise in physics. May be retaken to 9 cr max. Prereq: sr st; current teaching contract.

699 Advanced Independent Reading. 1-3 cr. U. Independent reading or research under supervision of faculty member. Study proposal required. For further information, consult dept chair or undergrad advising coord.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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POLISH Polish

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101 First-Semester Polish. 5 cr. U. A systematic introduction to the Polish language. | Prereq: none.

102 Second-Semester Polish. 5 cr. U. Continuation of Polish 101. | Prereq: Polish 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-4 cr. U. For further information, consult dept chair. | May be retaken to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

201 Third-Semester Polish. 3 cr. U. Review of grammar and readings. | Prereq: Polish 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

202 Fourth-Semester Polish. 3 cr. U. Continuation of Polish 201. | Prereq: Polish 201(P). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. | Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, German 213, Italian 213, Linguis 213, Russian 213, & Spanish 213. Prereq: none.

236 Polish Culture in its Historical Setting. 3 cr. U. Major achievements of Polish culture during ten centuries of existence. Art, architecture, literature, music, and film viewed against crucial historical developments that formed Poland and its people. | May be used to repeat Geog 236. Prereq: none.

260 Survey of Polish Literature-in-Translation: 1863 to the Present. 3 cr. U. | Prereq: none. One course in 100-level lit-in-trans or 200-level English lit advisable.

289 Internship in Polish, Lower Division. 1-6 cr. U. Application of basic principles of Polish in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Polish; 2.25 gpa; cons supervising faculty member.

290 Summer Study in Poland: (Subtitled). 2-6 cr. U. Studies in Polish language, culture and civilization at a Polish university; lectures and field trips; credit level determined by length of program. | May be retaken w/chg in topic. Prereq: cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

489 Internship in Polish, Upper Division. 1-6 cr. U. Application of advanced principles of Polish in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Polish; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Supervised Individual Reading. 1-6 cr. U. Advanced independent work under the supervision of a Slavic Lang faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Slavic Lang prog coord. | May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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POL SCI Political Science

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243 Public Administration. 3 cr. U. The means used to implement political values with emphasis on problems of administration in modern government.|Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another. Prereq: none.

American Politics

110 Sex and Power. 3 cr. U. Study of gender, sex, and sexuality as determined by law, power, and politics.|Prereq: none.

150 Multicultural America: Minority Voting Rights and Representation. 3 cr. U. An introduction to minority voting rights, the Voting Rights Acts, and minority representation.|Cultures and Communities Prog course; req'd service learning component. Prereq: none.

210 American Public Policy. 3 cr. U. Introduction to substantive policy issues and forces which influence their progress. Emphasis upon major values within political conflicts and the gap between policy goals and program implementation.|American politics course. Prereq: none.

213 Urban Government and Politics. 3 cr. U. The management, politics, and problems of city government.|American politics course. Prereq: none.

215 Ethnicity, Religion and Race in American Politics. 3 cr. U. Nationality, racial and religion-based groups in American domestic and foreign policy-making; significance of cultural pluralism as a factor in the American political experience.|American politics course. Prereq: none.

216 Environmental Politics. 3 cr. U. Introductory course on the politics of environmental decisionmaking. Topics include the environmental movement, capitalism and the environment, climate change, and policymaking for environmental protection.|Counts as a repeat of Pol Sci 299 w/same topic. Prereq: none.

250 Law and Society. 3 cr. U. The law and the operation of the legal system as they relate to contemporary social issues.|American politics course. Prereq: none.

387 Topics in American Politics: (Subtitled). 3 cr. U/G. Intensive study in selected aspects of American politics. |May be retaken w/chg in topic to 6 cr max. American politics course. Prereq: jr st.

388 Latino Politics. 3 cr. U. Contemporary Latino politics in the U.S.; demographic analysis; interplay between political incorporation and political institutional responses; Chicano movement, immigration policies, public opinion, voting behavior, representation. |Latino 388 & Pol Sci 388 are jointly offered; they count as repeats of one another. Prereq: jr st.

405 State Government: (Subtitled). 3 cr. U/G. Selected topics in state government and politics with special emphasis on Wisconsin. |May be retaken w/chg in topic to 6 cr max. American politics course. Prereq: jr st.

408 The American Presidency. 3 cr. U/G. Study of the office and powers of the president, with an analysis of his major roles as chief administrator, legislative leader, political leader, initiator of foreign policies, Commander-in-Chief and head of state. |American politics course. Prereq: jr st.

411 Constitutional Law: Government Powers and Federalism. 3 cr. U. Constitutional interpretation, with emphasis on separation of powers, federalism, and property. |American politics course. Prereq: jr st.

412 Constitutional Law: Civil Rights and Liberties. 3 cr. U/G. Cases in civil rights and liberties in such areas as equal protection, due process, and First Amendment freedoms. |American politics course. Prereq: jr st.

415 The Politics of Race, Ethnicity and Immigration. 3 cr. U. Racial/ethnic histories in the US; political difference and commonality; influence of immigration on political behavior and attitudes. |Prereq: jr st.

416 Judicial Politics. 3 cr. U/G. Trial and appellate court structure; litigation in federal and state contexts; key actors in the judicial process, including litigants, lawyers, judges, and juries. |American politics course. Prereq: jr st.

417 The Supreme Court. 3 cr. U/G. Behavior of U.S. Supreme Court justices and other appellate judges and courts within the judicial and political systems. |American politics course. Prereq: jr st.

419 Constitutional Interpretation. 3 cr. U/G. Analysis of contemporary interpretive themes, including judicial activism, the living Constitution, and critical theories of law. |American politics course. Prereq: Pol Sci 411(P) or 412(P).

421 Party Politics in America. 3 cr. U/G. The role of political parties in the nominating process, campaigns, fund raising, voter choice, and the governing processes of Congress and the presidency. |American politics course. Prereq: jr st; Pol Sci 103(P) or 104(P).

425 Women in Politics. 3 cr. U. Political attitudes and behavior of women; socialization and selection of women for political offices; and women's issues in politics. |American politics course. Prereq: jr st.

426 Congressional Politics. 3 cr. U/G. The role of Congress in shaping public policy, with emphasis on the impact of elections, lawmaking procedures, congressional committees, political parties, interest groups, and presidents. |American politics course. Prereq: jr st.

444 Politics and the Bureaucracy. 3 cr. U/G. The role of the bureaucracy in policymaking. Political resources of bureaucracy, its ability to influence policy outcomes. Political controls on bureaucracy, and proposals for reform. |American politics course. Prereq: jr st.

450 Urban Political Problems. 3 cr. U/G. Reading and analysis of specific urban problems and governmental responses. |American politics course. Prereq: jr st.

452 Administrative Law. 3 cr. U/G. An examination of due process, privacy, and other constitutional and legal

issues as they arise in the regulatory, investigatory, and enforcement activities of administrative agencies. | American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another. Prereq: jr st.

464 Sex, Gender, and the Law. 3 cr. U. Topics in federal and state law pertaining to women, gender, and feminism, such as reproductive rights, domestic violence, and pay equity. | American politics course. Prereq: jr st.

467 Elections and Voting Behavior. 3 cr. U/G. Psychological and social components of voting behavior, current electoral trends, and role of voters in the governing process. | American politics course. Prereq: jr st.

471 Problems in Law Studies: (Subtitled). 3 cr. U/G. Discussion of selected problems in contemporary law and politics, such as civil rights movements or law and sexuality. | May be retaken w/chg in topic to 6 cr max. American politics course. Prereq: jr st.

473 Public Opinion. 3 cr. U/G. Formation of opinions within and among political publics; role of public opinion in the development and practice of governmental policy. | Prereq: jr st.

Comparative Politics

300 Western European Politics. 3 cr. U. Survey of government and politics in Western Europe; comparative perspectives on states, citizens, and public policies; current challenges. | Comparative politics course. Prereq: jr st or Pol Sci 106.

301 British Politics. 3 cr. U/G. Political process in Great Britain in the context of contemporary national setting; emphasis on party system and constitutional order. | Comparative politics course. Prereq: jr st.

302 Politics of Eastern Europe. 3 cr. U/G. Evolution of modern nation-state systems in Eastern Europe; interactions among nationalism, communism, and democracy in the countries of the region since 1945. | Comparative politics course. Prereq: jr st.

310 Russian and Post-Soviet Politics. 3 cr. U/G. Domestic politics of Russia and the other states of the former Soviet Union; special emphasis is placed on transitions to and from authoritarianism, political institutions, and market reforms. | Comparative politics course. Prereq: jr st.

312 The Politics of Authoritarian Regimes. 3 cr. U/G. Comparison of modern authoritarian regimes. Emphasis is on their domestic politics and methods of rule. | Comparative politics course. Prereq: jr st.

314 Chinese Politics and Foreign Policy. 3 cr. U. Historical background. Communism and its reform: leadership and political change; economic policy; corruption; human rights; population; environment; Tibet and Xinjiang; foreign policy. | Comparative politics course. Prereq: jr st or one pol sci course.

320 Politics of Developing Countries. 3 cr. U/G. Comparative analysis of political problems confronting developing countries. | Comparative politics course. Prereq: jr st.

321 Politics of Revolution in Developing Nations. 3 cr. U/G. The theory and description of political revolutions and rapid political change in the twentieth century. | Comparative politics course. Prereq: jr st.

325 Latin American Politics. 3 cr. U/G. Analysis of contemporary governments in Latin America, with particular emphasis on the social way of life, the politics of economic organization and government in action. | Comparative politics course. Prereq: jr st.

326 Brazilian Politics and Society. 3 cr. U. Puzzles and complexities of governing Brazil in 20th and 21st centuries. Historical and institutional foundations of the Brazilian state; current political, economic, and social

environment.|Comparative politics course. LACS 326 & Pol Sci 326 are jointly offered; they count as repeats of one another. Prereq: jr st.

328 The Arab-Israeli Conflict. 3 cr. U/G. Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.|Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic. Prereq: jr st.

329 African Politics. 3 cr. U/G. The process of political change in contemporary Africa, with emphasis on the problems of nationalism and nation-building.|Comparative politics course. Prereq: jr st; Pol Sci 106(R).

333 Seminar in Comparative Politics: (Subtitled). 3 cr. U/G. Intensive study in selected aspects of comparative politics.|May be retaken w/chg in topic to 9 cr max. Enrollment limited to 15 students. Comparative politics course. Prereq: jr st.

334 German Politics and the New Europe. 3 cr. U/G. Development of the two German republics after 1945; domestic and European issues of a unified Germany.|Comparative politics course. Prereq: jr st.

335 Comparative Political Systems. 3 cr. U/G. Government and politics in various Western and developing countries, stressing common experience as well as differences conditioned by diverse circumstances.|Comparative politics course. Prereq: jr st.

341 Politics and Markets in Pacific-Rim Countries: (Subtitled). 3 cr. U/G. Introduction to the political-economic relationships among Pacific-Rim countries.|May be retaken w/chg in topic to 6 cr max. Comparative politics course. Prereq: jr st.

355 The Politics of Economic Inequality. 3 cr. U. The causes and political consequences of economic inequality.|Prereq: jr st or cons instr.

368 Gender and Politics in Developing Nations. 3 cr. U/G. Gender and politics in Latin America, East/South Asia, the Middle East, integrating works from political science, feminist theory, development studies, public health, women's studies.|Counts as a repeat of Pol Sci 333 w/same subtitle. Enrollment limited to 15 students. Comparative politics course. Prereq: jr st.

371 Nationalism and Ethnic Conflict. 3 cr. U. Origins of nations. Nationalism and the decline of empires. Origins and strategies of ethnic wars. How ethnic wars end. International intervention. Case studies, such as Arab-Israeli and India-Pakistan conflicts. Comparative or international politics course. Prereq: jr st or one pol sci course.

372 Poverty and Politics: (Subtitled). 3 cr. U. Causes and political consequences of poverty and social inequality worldwide.|Counts as repeat of Pol Sci 499 w/same topic. May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

374 Health, Wealth, and Democracy. 3 cr. U. The relationship between the democracies and wealth, and health care outcomes.|The relationship between the democracies and wealth, and health care outcomes.

377 Elections in the Modern World. 3 cr. U. Role of elections in contemporary political regimes; representation, accountability, electoral institutions, elections in new democracies, and electoral authoritarian regimes.|Prereq: jr st.

International Politics

316 International Law. 3 cr. U/G. Rules and principles of behavior which govern nations in their relations with

one another, as illustrated in texts and cases. | International politics course. Prereq: jr st.

330 The Politics of International Economic Relations. 3 cr. U/G. Politics of international trade, finance, and investment. Politics of industrial policy and economic development. Economic crisis and policy responses. | International politics course. Prereq: jr st.

337 International Organization and the United Nations. 3 cr. U. Institutions and politics. Collective security, peacekeeping, terrorism, and arms control. International legal tribunals and human rights. International trade and finance. Economic development. | International politics course. Prereq: jr st or one pol sci course.

338 Seminar in International Relations: (Subtitled). 3 cr. U/G. Intensive study in selected aspects of international relations. Add'l prereqs announced in Schedule of Classes each time course is offered. | May be retaken w/chg in topic to 6 cr max. Enrollment limited to 15 students. International politics course. Prereq: jr st.

339 European Integration. 3 cr. U/G. Evolution of the European Union, its institutions, and key policy developments related to the single market, common currency, enlargement, and the democratic deficit. | Comparative or international politics course. Prereq: jr st.

340 Politics of Nuclear Weapons. 3 cr. U/G. Survey of nuclear war issues, including the effects of nuclear weapons, defense against nuclear attack, arms control, nuclear weapons proliferation, and nuclear ethics. | International politics course. Prereq: jr st; course in pol sci or related field recom.

343 Asian International Relations. 3 cr. U. Analysis of recent relations of the major powers in East, Southeast, and South Asia, especially the problems of the smaller states and the role of the United States. | International politics course. Prereq: jr st.

346 U.S.-Latin American Relations. 3 cr. U. Historic and contemporary inter-American relations, including issues such as U.S.-Cuban relations, drug trafficking, trade integration, international finance, and migration. | International politics course. Prereq: jr st.

359 Problems of American Foreign Policy. 3 cr. U/G. Analysis of problems confronting the United States in principal regions of the world, emphasizing the content and instrumentalities of recent policy, and considering alternative solutions. | International politics course. Prereq: jr st.

365 Theories and Methods in International Politics. 3 cr. U/G. Empirical, theoretical, and quantitative analyses of international relations. | International politics course. Prereq: jr st.

370 International Conflict. 3 cr. U/G. Theoretical and quantitative studies of international conflict and war. Includes individual, national, and systemic approaches. | International politics course. Prereq: jr st.

379 Morality, Conflict and War. 3 cr. U. Examines the conditions that make for war and peace in world politics, and considers relevant moral and ethical arguments about war. | Prereq: jr st

391 Current Crises and Events in International Relations. 3 cr. U. Examines several current crises or challenging international events--defined as unstable, pressing international situations in which significant change appears imminent. | Prereq: jr st.

423 Conduct of American Foreign Affairs. 3 cr. U/G. Descriptive analysis of the way American foreign policy is formulated and carried out by federal agencies. | International Politics course. Prereq: jr st.

Introductory Courses

103 Introduction to Political Science. 3 cr. U. An introduction to the systematic study of politics, including

voting, parties, interest groups, executives, legislatures, courts, and political ideologies.|Prereq: none.

104 Introduction to American Government and Politics. 3 cr. U. How the American political system works, with emphasis on the Constitution, elections, political parties, interest groups, Congress, the presidency, the courts, and national policy making.|Prereq: none.

105 State Politics. 3 cr. U. Processes and functions of state governments and their relations with the national government and local governments; special emphasis on Wisconsin politics.|Prereq: none.

106 Politics of the World's Nations. 3 cr. U. Introduction to political issues facing the governments of industrialized and developing nations, democratic and authoritarian, considering the similarities and differences between these nations and America.|Prereq: none.

175 Introduction to International Relations. 3 cr. U. Introduction to international relations, including the major subfields. Essential characteristics of the international system and the foreign policy objectives of states are discussed to give the beginning student a clearer view of world politics.|Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

Political Methodology Courses

203 Introduction to Political Science Research. 3 cr. U. An overview of quantitative political science research. The role of theory, research design, and measurement.|Research methods course. Prereq: one pol sci course.

390 Political Data Analysis. 3 cr. U/G. Research design, measurement, and techniques of political data analysis.|Research methods course. Prereq: jr st; satisfaction of GER Quantitative Literacy Part A req.

392 Survey Research. 3 cr. U/G. Theory and practice of survey techniques. Planning, design, sampling, types of data, questionnaire construction, interviewing, field operation, and coding examples in a variety of fields.|Research methods course. Prereq: jr st.

Political Theory

255 Great Issues of Politics. 3 cr. U. Major problems in political thought, such as war and peace, justice and power, liberty and authority, identity and alienation, and stability and change.|Political theory course. Prereq: none.

281 Classics of Political Theory. 3 cr. U. Power, authority, liberty, justice, law, and other basic ideas of politics and government as treated in the classic works of political thought.|Political theory course. Prereq: soph st.

361 History of International Political Thought. 3 cr. U/G. History of international political thought. Statist and internationalist theories of sovereignty, war, intervention, and international law.|Political theory or international politics course. Prereq: jr st.

381 The Development of Western Political Thought. 3 cr. U/G. Political theory from the Greek era to the present.|Political theory course. Prereq: jr st; grade of C or better in English 102(P) or score level 4 on EPT.

382 Modern Political Thought. 3 cr. U/G. Liberal democracy, traditional conservatism, fascism, communism and socialism, with emphasis on the development and problems of democracy.|Political theory course. Prereq: jr st.

384 The Philosophy of Law. 3 cr. U/G. The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment. |Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another. Political theory course. Prereq: jr st; 3 cr in philos or previous course in political theory or law studies recom.

385 American Political Thought. 3 cr. U/G. Survey of main currents of American political thought from colonial times to the present. |Political theory course. Prereq: jr st.

386 Contemporary Political Theory. 3 cr. U/G. Survey of current work in different branches of political theory, including formal, analytical, and critical theory. |Political theory course. Prereq: jr st.

389 Politics and Philosophy: 3 cr. U/G. Ideas and methods in recent political theory, including the history of political thought, analytical political philosophy, and critical theory. |Political theory course. May be retaken w/chg in topic to 6 cr max. Prereq: jr st; one course in political theory.

Special Courses

284 Introduction to ULEAP. 1-3 cr. U. Undergraduate Laboratory for Empirical Analysis of Politics (ULEAP). Hands-on research lab for recurring ULEAP projects. Students assist faculty with research projects, develop quantitative research skills. |Requires 40 hrs of supervised research per cr. May be retaken to 9 cr max. Prereq: cons instr.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. |One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs & srs. Prereq: acceptance into UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/topic chg. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

380 Honors Seminar: (Subtitled). 3H cr. U. Selective topics in the study of politics. |May be retaken w/chg in topic to 9 cr max. Political theory course. Prereq: soph st; Honors 200(P); cons Honors College dir.

398 Cyber-Politics: 3 cr. U. Study of politics using internet sources, especially the Worldwide Web. |May not be retaken for degree cr. Prereq: jr st; one social sci course.

489 Internship in Political Science. 1-6 cr. U. Application of advanced principles in political science in a governmental or political setting. |One cr earned for academic work related to each 40 hrs of internship work. May be retaken to 6 cr max. Prereq: jr st; 3.0 GPA; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/topic chg. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Capstone Course in Political Science. 3 cr. U. Readings and discussions about fundamental political science problems; directed research project tailored to each student's special interests. Prereq: sr st; declared pol sci major; Pol Sci 203(P), 390(P), or 392(P).

678 Advanced Undergraduate Laboratory for the Empirical Analysis of Politics. 1-3 cr. U. Advanced students enhance their research skills by assisting faculty members on political science research projects in collaboration with other students. Requires 40 hrs of supervised research per cr. May be retaken to 9 cr max. Prereq: jr st; cons instr.

699 Independent Reading. 1-6 cr. U. Students with superior grade-point averages and special aptitudes may be given permission to earn up to 6 cr toward the major by writing a thesis or doing directed research or reading. See Advanced Independent Study for further information. Consult the Political Science Chair. May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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PORTUGS Portuguese

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103 First-Semester Portuguese. 4 cr. U. Beginner-level Portuguese; listening, speaking, reading, writing, and grammar. | Prereq: none.

104 Second-Semester Portuguese. 4 cr. U. Continuation of Portugs 103. | Prereq: Portugs 103(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

110 Accelerated Portuguese I. 3 cr. U. Accelerated beginner-level course designed to enable students to develop comprehensive listening, speaking, reading, and writing skills in Portuguese. | Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/change in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. For further information, consult department chair. | May be retaken w/chg in topic to 6 cr max. Prereq: 2.5 GPA, cons instr, dept chair, & asst dean for SAS.

203 Third-Semester Portuguese. 3 cr. U. Intermediate-level continuation of Portugs 104. Development of listening, speaking, reading, and writing; review of first-year grammatical concepts. Readings in modern literary and non-literary texts. | Prereq: Portugs 104(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

204 Fourth-Semester Portuguese. 3 cr. U. Intermediate-level continuation of Portugs 203. Development of listening, speaking, reading, and writing; review of first-year grammatical concepts. Readings in modern literary and non-literary texts. | Prereq: Portugs 203(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

215 Portuguese Weekend Immersion Experience: (Subtitled). 1 cr. U. Immersion experience for students at the intermediate and advanced levels designed to expose them to the Portuguese language and culture. | May be retaken w/chg in topic to 6 cr max. Prereq: Portugs 104(P) or 110(P) or cons instr.

225 Understanding Brazil: (Subtitled). 3 cr. U. Topics in Brazilian culture and society. | May be retaken w/chg in topic

to 9 cr max. Prereq: none.

277 Portuguese Discussion Section: 1 or 2 cr. U. Discussion in Portuguese, designed to broaden perspectives, improve language skills.|Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max. Prereq: Portugs 204(P) or cons instr.

289 Internship in Portuguese, Lower Division. 1-3 cr. U. Application of basic principles of Portuguese in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship.May be retaken to 3 cr max. Prereq: intro course in Portugs; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

310 Advanced Composition and Conversation. 3 cr. U. Designed to develop students' oral and writing skills.|Prereq: Portugs 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

313 Advanced Speaking and Listening. 3 cr. U. Practice in speaking and listening for advanced students through discussion of Luso-Brazilian audiovisual and/or multi-media cultural tools; follow-up reading, writing, and grammar activities.|Generates L&S credit for demonstrated equivalent preparation (14 retro crs). Prereq: Portugs 204(P) or equiv.

360 Luso-Brazilian Culture: (Subtitled). 3 cr. U. One or more aspects of contemporary culture in the Portuguese-speaking world.|In English.May be retaken w/chg in topic to 9 cr max. Prereq: jr st or cons instr.

380 Luso-Brazilian Literature in Translation: (Subtitled). 3 cr. U. Selected works of Brazilian, Portuguese, and/or African Lusophone literature from different periods and genres, and representing several subjects.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st or cons instr.

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level.|May be retaken w/change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

446 The Portuguese-Speaking World: Sociolinguistic Perspectives. 3 cr. U/G. Examination of the history and development of Portuguese language and sociolinguistics in Portugal, Brazil, and former Portuguese colonies in Africa and Asia .|To count toward Portugs minor, coursework must be done in Portugs. Prereq: jr st.

457 Seminar in Luso-Brazilian Literature. 3 cr. U/G. Survey introduction to Brazilian, Portuguese, and/or African literature.|Taught in Portuguese with readings in Portuguese. To count towards the Portuguese minor, course work must be written in Portuguese. Graduate students may complete work in Spanish or Portuguese. Prereq: jr st or cons. instr.

489 Internship in Portuguese, Upper Division. 1-3 cr. U. Application of advanced principles of Portuguese in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship.May be retaken to 3 cr max. Prereq: jr st; 300-level or above course in Portugs; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg

in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Independent Reading. 1-3 cr. U. Advanced independent work under supervision of a Portugs faculty or instructional academic staff member. Students must submit study proposal. For more information, consult dept chair. May be retaken for cr. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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PSYCH Psychology

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623 Perceptual Processes. 4 cr. U. Experimental investigation of perception.|Prereq: jr st & Psych 325(P)

A. General Psychology

101 Introduction to Psychology. 3 cr. U. The scientific study of behavior.|Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

205 Personality. 3 cr. U. Principles of personality; an overview of adaptive and maladaptive behavior patterns.|Prereq: Psych 101(P).

210 Psychological Statistics. 4 cr. U. Use of statistical techniques in Psychology. Lec & Lab.|Prereq: Psych 101(P); satisfaction of GER Quant Lit Part A req.

214 Introduction to Conditioning and Learning. 3 cr. U. Introduction to principles and procedures of conditioning and learning.|Prereq: Psych 101(P).

230 Social Psychology: Psychological Perspectives. 3 cr. U. Areas of social psychology such as aggression, attitudes, interpersonal attraction, and group processes examined from a psychological perspective.|Prereq: Psych 101(P).

254 Physiological Psychology. 3 cr. U. The physiological bases of behavior.|Prereq: Psych 101(P).

260 Child Psychology. 3 cr. U. The development of the child.|Prereq: Psych 101(P).

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

325 Research Methods in Psychology. 4 cr. U. Design and execution of psychological research. Collection, analysis, and reporting of data. Lec & Lab. |Prereq: 2.62 gpa in Psych 101(P) & 210(P); grade of C or better in English 102(P) or score at level 4 on EPT.

380 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in psychology. |Foundations course. May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir; Psych 101(P).

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

B. Foundations & Systems

319 Gay and Lesbian Psychology. 3 cr. U. Psychological theory and research on sexual orientation. |Foundations course. Prereq: jr st; Psych 101(P).

320 Psychology of Women. 3 cr. U. Psychological theory and research on how gender influences our thinking, feelings, and behavior. |Foundations course. Prereq: jr st; Psych 101(P).

354 Introduction to Neuroscience I: From Neuron to Brain. 3 cr. U. Basic principles of cellular, molecular, and developmental neuroscience; structure/function of neurons and glia, chemical and electrical signaling, brain development, and neurological diseases. |Systems course. Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 354 & Psych 354 are jointly offered; they count as repeats of one another. Prereq: C or better in BioSci 315(P) or Psych 254(P).

355 Introduction to Neuroscience II: From Brain to Behavior. 3 cr. U. Basic principles of neural systems and behavior; analysis of systems for sensation and perception, learning and memory, language, emotion, and motion. |Systems Course. Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 355 & Psych 355 are jointly offered; they count as repeats of one another. Prereq: Bio Sci 152(P) & 315(C), or Psych 254(P).

407 Personality Theory. 3 cr. U. Theories of personality. 2 hrs lec, 1 hr dis |Systems course. Prereq: Psych 205(P).

412 Abnormal Psychology. 3 cr. U. Psychology of abnormal behavior; the nature and social-biological origins of psychotic, neurotic, and other behavioral abnormalities. |Foundations and Systems course. Prereq: Psych 101(P).

433 Neuropsychology. 3 cr. U. Introduction to the theory, research literature and assessment of the cognitive and emotional aspects of brain function. Systems course. |Prereq: Psych 254(P) or cons instr.

454 Psychopharmacology and Addiction. 3 cr. U. Examination of mode of action, acute and chronic effects, and the neurobiological and psychological characteristics of psychoactive drugs with an emphasis on addiction. |Foundations course. Prereq: Psych 254(P) or cons instr.

503 Perception. 3 cr. U/G. The nature of perception and its relation to environmental and internal processes. |Systems course. Prereq: jr st; 9 cr in psych.

510 Advanced Psychological Statistics. 3 cr. U/G. Topics include probability and sampling theory, correlational methods, and nonparametric techniques. Foundations course.|Prereq: jr st & Psych 210(P); or grad st.

540 Clinical Psychology: Science and Practice. 3 cr. U. Key concepts, findings, and their applications in the field of research and practice of clinical science.|Foundations course. Prereq: jr st.

550 History of Psychology. 3 cr. U/G. The important philosophical and scientific antecedents of contemporary psychology.|Systems course. Prereq: jr st; 9 cr in psych.

551 Learning and Motivation Theories. 3 cr. U/G. Contemporary psychological theories, with special emphasis on theories of learning.|Systems course. Prereq: jr st; 9 cr in psych.

555 Health Psychology. 3 cr. U. Psychological contributions to physical health in areas such as changing health habits, stress and coping, pain, and chronic illness.|Systems course. Prereq: Psych 254(P) or cons instr.

578 Psychology of Race, Ethnicity, and Health. 3 cr. U/G. Psychological theory and research on how health is related to race and ethnicity.|Foundations course. No cr for students w/cr in Psych 611 w/similar topic. Prereq: jr st, Psych 101(P); or grad st.

610 Experimental Design. 3 cr. U/G. Design and analysis of single and multi-factor experiments; tests for trends; multiple comparisons. Foundations course.|Prereq: jr st & Psych 210(P); or grad st.

611 Current Topics: (Subtitled). 3 cr. U/G. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.|Foundations course. May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

620 Single-Subject Research Methods. 3 cr. U/G. A review of single-subject research methods.|Foundations course. Prereq: jr st & Psych 325(P), or grad st; or cons instr.

627 Cognitive Neuroscience. 3 cr. U. How the brain enables the mind; broad introduction to cognitive neuroscience, with emphasis on a converging methods approach.|Systems course. Counts as repeat of Psych 611 w/same topic. Prereq: jr st; Psych 210(P) & 254(P).

645 Hormones and Behavior. 3 cr. U. Effects of hormones on behavior and brain function in various species.|Counts as repeat of Psych 611 with same topic. Prereq: jr st; Psych 254(R).

657 Neurobiology of Learning and Memory. 3 cr. U/G. Functional and structural alterations in nervous system underlying organism's ability to learn/remember. Principles drawn from molecular and cellular neurobiology, neurophysiology, neuroanatomy, and behavioral neuroscience.|Systems course. Counts as repeat of Psych 611 w/same topic. Prereq: jr st.

680 Psychology of Aging. 3 cr. U/G. Extension of principles of general psychology to the process of aging.|Systems course. Prereq: jr st; Psych 325(P) or cons instr.

682 The Aging Brain. 3 cr. U. Effects of aging process on brain function; resulting effects on psychological function.|Counts as repeat of Psych 611 with same topic. Prereq: jr st; Psych 254(R).

C. Advanced Laboratory

502 Applied Behavior Analysis. 4 cr. U/G. Learning and motivation of human behavior in applied settings. Lab work in community agencies using operant methods, behavior modification, programmed instruction, AV systems. Lec, Lab.|Prereq: jr st; Psych 325(P).

505 Cognitive Processes. 4 cr. U/G. Human information processing, emphasizing vision and language. Topics: pattern recognition; sensory-specific memory systems, short- and long-term; modern approaches to mental imagery and operations. Lec, lab.|Prereq: jr st; Psych 325(P).

514 Conditioning and Learning. 4 cr. U/G. Principles of conditioning and learning. Lec, lab.|Required special course fee assessed; announced in Schedule of Classes each semester. Prereq: jr st; Psych 325(P).

654 Advanced Physiological Psychology. 4 cr. U/G. Advanced topics in physiological psychology. Lec, lab.|Required special course fee assessed; announced in Schedule of Classes each sem. Prereq: jr st; Psych 254(P) & 325(P).

656 Psychophysiology. 4 cr. U. Experimental investigation of physiological factors in human behavior. Lec, lab.|Prereq: jr st; Psych 254(R) & 325(P).

660 Experimental Child Psychology. 4 cr. U/G. Experimental investigation of child behavior and development. Lec, lab.|Prereq: jr st; Psych 260(R) & 325(P).

677 Experimental Social Psychology. 4 cr. U/G. Experimental investigation of social behavior. Lec, lab.|Prereq: jr st; Psych 230(R) & 325(P).

D. Research & Independent Study

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|May be retaken w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

290 Undergraduate Research: Lower Division. 1-3 cr. U. Independent research under the supervision of a faculty member.|May be retaken for cr. Prereq: fr & soph st only; Psych 101(P) and sponsorship by a faculty member.

292 Psychology Field Placement-Lower Division. 3 cr. U. |May be retaken for cr. Prereq: Psych 101(P); cons instr & placement supervisor.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

690 Undergraduate Research: Upper Division. 1-3 cr. U. Independent research under the supervision of a faculty member.|May be retaken for cr. Prereq: jr st; sponsorship by a faculty member.

692 Field Placement in Psychology. 3 cr. U. |May be retaken for cr. Prereq: jr st; cons instr & placement supervisor.

697 Field or Research Placement in Psychology for Seniors. 3 cr. U. |Fulfills Capstone req. Prereq: sr st; cons instr &, if appropriate, placement supervisor.

698 Senior Thesis. 3 cr. U. Completion of thesis under the supervision of faculty.|May be retaken to 6 cr max. Prereq: sr st; 3.5 gpa in all Psych course work or cons instr.

699 Independent Study. 1-3 cr. U. Advanced independent work under the supervision of a Psych faculty member. Students must submit study proposal to the prof with whom they wish to study. For additional information, consult supervising prof.|May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

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RUSSIAN Russian

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101 First-Semester Russian. 5 cr. U. A systematic introduction to the Russian language.|Prereq: none.

102 Second-Semester Russian. 5 cr. U. Continuation of Russian 101.|Prereq: Russian 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level.|May be retaken w/chg in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-4 cr. U. For further information, consult dept chair.|Prereq: soph st, gpa 2.5 or above & writ cons instr, dept chair, & asst dean for SAS.

201 Third-Semester Russian. 4 cr. U. Review of grammar; practice in speaking, reading, and translation with integrated laboratory work.|Prereq: Russian 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

202 Fourth-Semester Russian. 4 cr. U. Continuation of Russian 201.|Prereq: Russian 201(P). Generates L&S credit for demonstrated equivalent preparation (12 retro cr).

210 Russian Literacy for Native and Heritage Speakers. 4 cr. U. Fundamentals of written Russian for native and heritage speakers: alphabet, orthography, grammar, style. Designed to develop language skills at the level of fourth-semester Russian.|Open only to native and heritage speakers of Russian with little or no formal schooling in the former Soviet Union. Generates L&S credits for demonstrated equivalent preparation (12 retro cr). Prereq: none.

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages.|Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, German 213, Italian 213, Linguis 213, Polish 213, & Spanish 213. Prereq: none.

235 Survey of Nineteenth-Century Russian Literature in Translation. 3 cr. U. Selected major authors representing

main trends.|Prereq: none.

236 Survey of Twentieth-Century Russian Literature in Translation. 3 cr. U. Selected pre- and post-revolutionary writers and movements.|Prereq: none. One course in 100-level lit-in-trans or 200-level English lit advisable.

245 Russian Life and Culture. 3 cr. U. Historical survey of Russian cultural patterns: themes, influences, religion, literature, architecture, music, daily life.|No knowledge of Russian req'd. Prereq: none.

245 (effective 09/04/2018) Russian Life and Culture. 3 cr. U. Historical survey of Russian cultural patterns: themes, influences, religion, literature, architecture, music, daily life.| No knowledge of Russian required. Prereq: Satisfaction of OWC-A GER.

260 Topics in Slavic Culture: (Subtitled). 1 cr. U. Exploration of a topic related to Slavic or folklore.|Counts as repeat of Russian 299 w/similar topic. May be retaken to 3 cr max. Prereq: none.

277 Russian Discussion Section: 1 or 2 cr. U. Discussion in Russian, designed to broaden perspectives, improve language skills.|Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max. Prereq: Russian 202(P) or cons instr.

289 Internship in Russian, Lower Division. 1-6 cr. U. Application of basic principles of Russian in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Russian; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

310 Advanced Russian Reading and Conversation: (Subtitled). 3 cr. U/G. Development of advanced reading, speaking, and writing skills. Readings and films focus on Russian life and culture. Topic varies each semester.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Russian 202(P), 210(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).

311 Contemporary Russian Language: (Subtitled). 3 cr. U/G. Development of practical communication skills. Focus varies each semester.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Russian 202(P), 210(P), or cons instr. Generates L&S cr for demonstrated equiv preparation (16 retro crs).

350 Dostoyevsky and Tolstoy in Translation: Major Works. 3 cr. U. Close readings of the masterworks of Tolstoy and Dostoevsky in historical context; consideration of their impact on Russian and Western art and social thought.|No knowledge of Russian req'd. Prereq: jr st.

360 Bulgakov, Pasternak and Solzhenitsyn in Translation. 3 cr. U. Reading and discussion of the major works of three outstanding Russian writers of the 20th century, two of them recent controversial Nobel prize winners.|Prereq: 5 crs in lit-in-trans and/or 200-level English lit courses.

361 Russian and Slavic Folklore. 3 cr. U. Folk beliefs of the past thousand years, including medieval folk epics, fairy tales, and legends; impact of ancient pagan beliefs on contemporary Slavic cultures.|Counts as repeat of Russian 391 w/same topic. ReligSt 361 & Russian 361 are jointly offered; they count as repeats of one another. Prereq: jr st.

391 Russian Literature and Culture in Translation: (Subtitled). 3 cr. U. Topics on Russian literature and culture in their historical and cultural contexts. Influences in modern Russian culture.|To count toward the Russian major or

minor, coursework must be done in Russian. May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

419 Introduction to Translation: Russian to English. 3 cr. U. Translation process as combination of linguistic, cultural, ethical, and logistic challenges; translation strategies for business, media, academic, legal, commercial, medical, technical, and popular culture documents. | Prereq: jr st; grade of B or better in 300-level or above Russian language course.

429 Seminar in Advanced Russian Translation: Russian to English. 3 cr. U. Translation of ideas and conceptual knowledge in subject areas including economics, law, society, culture, and history. | Prereq: jr st; grade of B or better in Russian 419(P).

489 Internship in Russian, Upper Division. 1-6 cr. U. Application of advanced principles of Russian in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Russian; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Supervised Individual Reading. 1-6 cr. U. Advanced independent work under the supervision of a Slavic Lang faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Slavic Lang prog coord. | May be retaken w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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SRB-CRO Serbo-Croatian

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SOC WRK Social Work

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100 Introduction to Social Work. 3 cr. U. A survey course focussed on the development of human service institutions and occupations.|Prereq: none.

105 Orientation for Social Welfare Students. 1 cr. U. Prepares students to participate in UWM's educational process and to explore career choices in social welfare.|Counts as repeat of Soc Wrk 88. Jointly offered with & counts as repeat of Crm Jst 105. Prereq: fr st only.

112 Field Observation. 1 cr. U. Introduction to the services of a social welfare setting through placement in an approved social service, health, law enforcement, or recreational setting. Minimum of 3 hours per week.|Prereq: soph st.

206 Introduction to Social Welfare Policy. 3 cr. U. An analysis of the relationships between poverty, welfare programs, and the society which creates and sustains them; the origins, structures, and goals of welfare programs.|Prereq: soph st.

250 Human Behavior and the Social Environment. 3 cr. U. A survey course in normative development from conception through aging. Focus on the interaction between biological, psychological, social, and cultural forces.|Prereq: soph st; Soc Wrk 100(P) or Psych 101(C).

291 Current Issues in Social Welfare and Social Work: (Subtitled). 1-3 cr. U. Selected current issues in Social Welfare and Social Work.|May be retaken with change in topic to max of 6 cr. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken with change in topic. Prereq: acceptance for Study Abroad Prog.

300 Aged to Perfection: Introduction to the Study of Aging. 3 cr. U. Interdisciplinary survey on aging.|Prereq: Satisfaction of OWC- Part A GER.

310 Social Work Methods I. 3 cr. U. Introduction to generic Social Work practice methods. Course also provides experiential exercises designed to provide students with basic interviewing skills.|Prereq: jr st; Soc Wrk 100(P), 250(P) & satisfy English competency.

310 (effective 09/04/2018) Social Work Methods I. 3 cr. U. Introduction to generic Social Work practice methods. Course also provides experiential exercises designed to provide students with basic interviewing skills.|Prereq: jr st; Soc Wrk 100(P), 250(P), & SW 206(C); satisfaction of OWC-A GER.

380 Honors Seminar in Social Work: (Subtitled). 3H cr. U. A seminar in an interdisciplinary topic or on the broader implications of a faculty member's research.|May be retaken w/chg in topic to 9H cr max. Prereq: soph st; Honors 200(P); cons Honors College Dir.

410 (effective 09/04/2018) Social Work Methods II. 3 cr. U. Introduction to social work methods as applied to small groups. Lab provides experiential exercises in group interactions, needs, and leadership roles.|Prereq: jr st; admis to Soc Wrk major; satisfaction of OWC-A GER; Soc Wrk 310(P); 421(C).

410 Social Work Methods II. 3 cr. U. Introduction to social work methods as applied to small groups. Lab provides experiential exercises in group interactions, needs, and leadership roles.|Prereq: jr st; admis to Soc Wrk major; satisfaction of OWC-A GER; Soc Wrk 310(P); 421(C).

421 Field Education & Integrated Field Seminar I. 5 cr. U. 1st of two consecutive semester practicum, and weekly field seminar which provides an opportunity to develop and demonstrate social work skills. 256 hours per semester.|Prereq: jr st; declared Soc Wrk major; satisfaction of OWC-A GER; Soc Wrk 310(P); 410(C); and 662(C).

421 (effective 09/04/2018) Field Education & Integrated Field Seminar I. 5 cr. U. 1st of two consecutive semester practicum, and weekly field seminar which provides an opportunity to develop and demonstrate social work skills. 256 hours per semester.| Prereq: jr st; admis to Soc Wrk major; satisfaction of OWC-A GER; Grade of B or better in Soc Wrk 310(P); and 410(C).

422 Field Education & Integrated Seminar II. 5 cr. U. (Second of a two semester required sequence). Continuation of Soc Wrk 421.|Prereq: sr st; Soc Wrk 410(P), 421(P), 662(P); 427(C).

422 (effective 09/04/2018) Field Education & Integrated Seminar II. 5 cr. U. (Second of a two semester required sequence). Continuation of Soc Wrk 421.|Prereq: Grade of B or better in Soc Wrk 410(P) and Soc Wrk 421(P); 427(C).

423 Field Education III. 5 cr. U. (Elective field course). Continuation of Soc Wrk 421 & 422.|Prereq: sr st; Soc Wrk 422(P), 427(P); cons Field Office.

427 Social Work Methods III. 3 cr. U. Introduction to social work methods as applied to community problems. Lab provides experiential exercises in community organization and other techniques of social change.|Prereq: sr st; Soc Wrk 410(P), 662(P); 422(C).

427 (effective 09/04/2018) Social Work Methods III. 3 cr. U. Introduction to social work methods as applied to community problems. Lab provides experiential exercises in community organization and other techniques of social change.|Prereq: Grade of B or better in Soc Wrk 410(P) & Soc Wrk 421 (P); Soc Wrk 422(C).

497 Study Abroad: (Subtitled). 1-6 cr. U/G. Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic to max of 9 cr. Prereq: jr st; acceptance for Study Abroad Prog.

562 Child and Family Services. 2 cr. U/G. Introduction to child and family welfare services, including methods for assessing needs, existing treatment techniques, and institutional support systems.|Prereq: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.

564 Social Services for the Aging. 2 cr. U/G. Individual and societal implications of the aging process, with an emphasis upon current resources and programs for the elderly.|Prereq: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.

580 An Overview of Child/Youth Care. 3 cr. U/G. Survey of skills, theories and approaches of the youth work field. Emphasis on relationship-building, interactive and developmental approaches in a variety of settings. |Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other. Prereq: jr st or cons instr.

581 Youth Work Practice. 3 cr. U/G. Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs. |Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other. Prereq: jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.

591 Special Topics: Social Welfare and Social Work: (Subtitled). 1-3 cr. U. Selected topics in social welfare and social work. Specific credits and additional prerequisites announced in Schedule of Classes whenever course is offered. |May be retaken w/chg in topic to max of 6 cr. Prereq: jr st; satisfy English competency; one prior course in Soc Wrk recom.

592 Independent Research. 1-3 cr. U. Participation in an independent research project under faculty supervision. |May be retaken to max of 6 cr. Prereq: jr st; satisfy English competency; GER math requirement; 2.5 gpa; Soc Wrk 662(P), writ cons instr & dir Soc Wrk prog.

599 Independent Reading. 1-3 cr. U. Intensive readings in fields related to student's preparation and training, under the supervision of a faculty member. |May be retaken to 6 cr max. Prereq: sr st; satisfy English competency; 2.5 gpa; writ cons instr & dir Soc Wrk Prog.

604 (effective 09/04/2018) Social Systems and Social Work Practice. 3 cr. U/G. Analysis of organizations, community and social institutions and the impact they have on human behavior and how they provide the social context of social work practice. |Prereq: jr st; admis to Soc Wrk major, Soc Wrk 310(P); or grad st.

604 Social Systems and Social Work Practice. 3 cr. U/G. Analysis of organizations, community and social institutions and the impact they have on human behavior and how they provide the social context of social work practice. |Prereq: jr st; satisfy English competency, admis to Soc Wrk major, Soc Wrk 310(P); or grad st.

630 Families and Poverty. 2-3 cr. U/G. Description of families in poverty and analysis of historical and contemporary national and state policies aimed at reducing poverty. |Prereq: jr st; one prior course in Soc Wrk recom.

650 Social Welfare and the Law. 2 cr. U/G. Collaborative principles of social work and the legal profession. Selected concepts and principles of legal and social provision for protection of family, children and adults. |Prereq: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.

662 (effective 05/21/2018) Methods of Social Welfare Research. 3 cr. U/G. Analyze methods of social welfare research and problems in project design and programming. Characteristics of investigations directed to planning, administrative, practice, and scientific objectives. |Prereq: jr st, admis to Soc Wrk major, satisfaction of QL-A GER, Soc Wrk 100(P), 206(P), & 250(P); or grad st.

662 Methods of Social Welfare Research. 3 cr. U/G. Analyze methods of social welfare research and problems in project design and programming. Characteristics of investigations directed to planning, administrative, practice, and scientific objectives. |Prereq: jr st, Soc Wrk major, satisfaction of QL-A GER, Soc Wrk 100(P) & 206(P), 421(C); or grad st.

665 Cultural Diversity and Social Work. 3 cr. U/G. Emphasis on culture, race and ethnicity, theories of prejudice, and racial minority groups, and the politics of human services in multicultural society. |Prereq: jr st, admis to Soc Wrk major, satisfy English competency, Soc Wrk 100(P), 206(P), 250(350)(P); or grad st.

680 Death and Dying. 3 cr. U/G. Focus on multiple perspectives on death, dying, and bereavement; roles and skills for social workers and other helpers about end-of-life issues. |Counts as repeat of Soc Wrk 591 & 791 with same topic. Prereq: jr st; or grad st.

685 Social Gerontology. 3 cr. U/G. Exploration of individual aging experiences and interaction with social structures and social systems. | Counts as repeat of Soc Wrk 591 & 791 with the same topic. Prereq: jr st and one prior course in Soc Wrk recom; or grad st.

691 Practice Methods in Social Work: (Subtitled). 1-3 cr. U/G. Topics focused on Social Work practice methods. Specific topics and credits to be announced in Schedule of Classes. | May be retaken with change in topic to max of 6 cr. Prereq: jr st.

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SOCIOL Sociology

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101 Introduction to Sociology. 3 cr. U. Sociology as a special field of social science. The relationship of the work of the sociologist to contemporary society; an examination of the sociological perspective.|Prereq: none.

102 Solving Social Problems. 3 cr. U. Examines problems relating to social inequality, troubled institutions, social control and social change. Explains how sociological theories can address these problems and improve communities.|Prereq: none.

103 World Society. 3 cr. U. Demographic and development trends related to political, economic, and eco-systems. Policy options and strategies regarding population growth, economic development, and selected institutional issues.|Prereq: none.

104 Introduction to Social Psychology. 3 cr. U. An introduction to sociological social psychology, emphasizing such topics as the nature of self, identity, socialization, various aspects of social interaction, and dynamics of group behavior.|Prereq: none.

150 Multicultural America. 3 cr. U. Multiculturalism explored through historical survey of US immigration and immigrant incorporation. Cultural diversity, race relations, and identity; focus on Asian-American, African-American, and Latino/a-American migrant communities.|Cultures and Communities Prog course; req'd service learning component. Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|May be retaken w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

200 Contemporary American Society. 3 cr. U. The patterns of social life in the United States; cultural orientations, social structures, and dynamics of social change.|Prereq: soph st or a Sociol 100-level course.

207 Work and Society. 3 cr. U. The sociology of work; changes in the structure of work. Theory and research on work settings: occupations, professions, housework, work subterranean. The future of work.|Prereq: soph st or a Sociol 100-

level course.

224 American Minority Groups. 3 cr. U. Nature of minority-dominant group relations. Stability and change in status in American society of Blacks, Native Americans, Spanish-speaking peoples, and other minority groups. |Prereq: soph st or a Sociol 100-level course.

233 Social Inequality in the United States. 3 cr. U. A survey of race, class and gender inequalities. Introduction to competing stratification theories. |Prereq: soph st or a Sociol 100-level course.

235 Social Change in the Global Economy. 3 cr. U. Global nature of contemporary economic and social change; local dimensions of globalization, economic integration, dislocation, transnationalization, popular resistance, and backlash. |Prereq: soph st or any Sociol 100-level course.

241 Criminology. 3 cr. U. Analysis of competing perspectives on crime, with reference to the behavior of those who define, engage in, or become the victim of criminal behavior. |Prereq: soph st or a Sociol 100-level course.

246 Juvenile Delinquency. 3 cr. U. Study of personal and social determinants of juvenile delinquency and agencies for its control, treatment, and prevention. |Prereq: soph st or a Sociol 100-level course.

248 Sociology of Education. 3 cr. U. Social structure of the contemporary schooling system in the United States. Topics include social class membership and education outcomes; school desegregation; high school attrition. |Prereq: soph st or a Sociol 100-level course.

250 Sex and Gender. 3 cr. U. The study of sexual inequality; changing work and family roles in industrialized societies; the social construction of gender; sociological understandings of sexual diversity. |Prereq: soph st or a Sociol 100-level course.

255 Sociology of Sexuality. 3 cr. U. The social construction of sexuality, the social history of sexual arrangements, and contemporary sexual theory and practice. |Prereq: soph st or a Sociol 100-level course.

260 Blood, Sex, Money, Power: Families and Intimate Relationships. 3 cr. U. The social forces that shape inequality within, and the formation and maintenance of, marriage and other intimate relationships across diverse groups. |Prereq: soph st or a Sociol 100-level course.

261 Introduction to Statistical Thinking in Sociology. 3 cr. U. Introduction to basic statistical concepts and procedures and their selected application to sociological data. Covers both descriptive and inferential statistics. |Prereq: soph st or Sociol 101(P); satisfaction of GER Quantitative Literacy Part A req.

282 Sociology of Aging. 3 cr. U. Introduction to social gerontology; examination of the social dynamics and institutional contexts of aging in modern society. |Prereq: soph st or a Sociol 100-level course.

289 Internship in Sociology, Lower Division. 1-6 cr. U. Application of basic principles of sociology in a business, organizational, educational, political or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Sociol; 2.25 gpa; cons supervising faculty member.

290 International Migration: (Subtitled). 3 cr. U. Examines institutional, demographic, geo-political, and social psychological sources of human migration. Considers theories of and trends in migration with special focus on salient, current events. |May not be retaken for cr. Prereq: soph st or a Sociol 100-level course.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires

only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

304 Political Sociology. 3 cr. U. Examination of structural and cultural factors as related to the nature of political systems; consideration of the organization and roles of political and para-political groups. | Prereq: jr st & any Sociol 100-level course.

305 Sociology of Sport. 3 cr. U. Social structure of sports in historic and contemporary contexts, with primary emphasis given to sports in the United States. | Prereq: jr st; any Sociol 100 or 200 level course.

307 Industrial Sociology. 3 cr. U. Industrial technological factors in community life; role of industrial workers, leaders, and organizations in the community; impact of industrialization on other institutions. | Prereq: jr st; a Sociol 100-level course.

320 Social Change in American Indian Societies. 3 cr. U. American Indian societal change studied from a combination of theoretical perspectives: examination of the variation in American Indian responses to Western political and economic impacts. | AIS 320 & Sociol 320 are jointly offered; they count as repeats of one another. Prereq: jr st; any Sociol 100-level course or Sociol 224(P).

321 Contemporary Issues of the American Indian. 3 cr. U. Development of the institutional structure of American Indian affairs; current economic and social problems, contemporary manifestations of American Indian spirit, e.g. activism and cultural experiences. | AIS 321 & Sociol 321 are jointly offered; they count as repeats of one another. Prereq: jr st; any Sociol 100-level course or Sociol 224(P).

323 Perspectives on Latino Communities. 3 cr. U. Sociological analysis of the experiences of Latinos. Examination of immigration and mode of incorporation from theoretical perspectives. Emphasis on Chicanos, Cubans, and Puerto Ricans. | Latino 323 & Sociol 323 are jointly offered; they count as repeats of one another. Prereq: jr st & any Sociol 100-level course or cons instr.

324 Comparative Race Relations. 3 cr. U. Analysis of racial/ethnic relations in historical and cross-cultural perspective. Origin, persistence, adaptation, and change in patterns of race relations in various societies. | Prereq: jr st & Sociol 101(P) or 104(P).

325 Social Change. 3 cr. U. Study of change in society; integration and various theories of social change; examination of contemporary instances of social change. | Prereq: jr st & any Sociol 100-level course.

327 The Social Organization of Technology: A Comparative Perspective. 3 cr. U. Explores technological innovation, the diffusion of technology into practice, the relationship of technology to science, work and the control of work. | Prereq: jr st; a 100-level Sociol course.

330 Economy and Society. 3 cr. U. The sociological perspective applied to economic phenomena, including production, distribution, consumption, exchanges of goods, a country's economic development, and global market. | Prereq: jr st; a Sociol 100-level course.

331 Sociology of Health Care. 3 cr. U. Cultural, social, and social-psychological factors in disease processes; distribution of disease; social definitions of illness; organization of health professions and health facilities. | Prereq: jr st & Sociol 101(P) or 104(P).

333 Social Class in Industrial Society. 3 cr. U. Comparative analysis of patterns of stratification in modern societies. Critical analysis of competing theories via examination of selected topics of theoretical significance. | Prereq: jr st & any Sociol 100-level course.

338 Small Groups. 3 cr. U. Defining structure and functions of the group. Developing understanding of group processes. Recognizing and defining leadership, cliques and factions. | Prereq: jr st & Sociol 101(P) or 104(P).

341 Sociology of Deviant Behavior. 3 cr. U. Analysis of the ways in which deviant behavior is socially constructed, individuals are labeled and stigmatized as deviants, and mechanisms of social control are activated or challenged.|Prereq: jr st & any Sociol 100-level course.

342 Sociology of Law. 3 cr. U. Examination of law as a social institution, the functions of law, evolution of legal systems, law and other social institutions, the legal profession.|Prereq: jr st & Sociol 101(P) or 104(P).

343 Collective Behavior. 3 cr. U. Dynamic aspects of social and institutional change. The breakdown and transformation of the social system through cultural drift, collectivities, and social movements. Recruitment, ideology, and leadership.|Prereq: jr st & Sociol 101(P) or 104(P).

361 Research Methods in Sociology. 3 cr. U. Scientific methods in the analysis of society, procedures in problem definition, hypotheses/construction, and collection, and evaluation of data.|Prereq: jr st; 9 cr Sociol; Sociol 261(P) or approved stats course.

375 History of Sociological Theory. 3 cr. U. Critical survey of ideas about society centered on thinkers up to the twentieth century.|Prereq: jr st; 9 cr Sociol.

376 Modern Sociological Theory. 3 cr. U. Major theoretical paradigms including functionalism, conflict and dialectical models, exchange theory, symbolic interactionism, and social phenomenology.|Prereq: Sociol 375(P).

377 Urbanism and Urbanization. 3 cr. U. Theoretical perspectives, substantive themes, and methodological approaches to the study of cities. Impact of historical development and changing spatial patterns on social behavior in metropolitan areas.|Sociol 377 & Urb Std 377 are jointly-offered; they count as repeats of one another. Prereq: jr st & a Sociol 100-level course; or Urb Std 250(P).

380 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in sociology|May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

399 Independent Study-Upper Division. 1-3 cr. U. Independent work in specific areas of sociology under supervision.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

404 Sociology and Social Policy. 3 cr. U. Examination of the uses of sociological theory and research in the formulation, implementation, and evaluation of social policy.|Prereq: jr st; any Sociol 100-level course.

423 Latino Immigration and Incorporation: (Subtitled). 3 cr. U/G. Latino institutional, geo-political, demographic, comparative, and social network theoretical perspectives on migration to and incorporation into the United States.|May be retaken w/chg in topic to 6 cr max. Latino 423 & Sociol 423 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; 3 cr in Sociol at 200-level or above or cons instr; addl prereqs may be assigned for specific topics.

440 Sociology of the Family. 3 cr. U/G. Family patterns and ideologies in relation to broader social structure and culture, sources of variety and change in household, family, and kinship organization.|Prereq: jr st; 6 cr in Sociol at 200-level or above.

442 The Work-Family Intersection. 3 cr. U/G. Social forces shaping work and family patterns and ideologies; implications of social change for employers, workers, and families; survey of work-family policies.|No cr for students w/cr in Sociol 495 w/similar topic. Prereq: jr st; 6 cr 200-level or above Sociol.

443 Organizations, Occupations, and Professions. 3 cr. U/G. Development of occupations and professions in industrial societies. Study of professional concepts, ethical codes, work norms, specialization, recruitment, education, and work roles in an organizational context.|Prereq: jr st & Sociol 101(P) or 104(P); or grad st.

444 Sociology of the Body. 3 cr. U/G. How the body is shaped by social forces. Relationship between the body, identity, and culture, focusing on gender, race/ethnicity, and disability.|Prereq: jr st & any Sociol course; or grad st.

448 Sociology of Children and Adolescents. 3 cr. U/G. Theoretical perspectives and research methods addressing substantive issues in children's and adolescents' lives, including peer cultures, schooling, families, gender, race, class, health, and work.|Prereq: jr st & any Sociol course; or grad st.

450 Environmental Sociology. 3 cr. U. Sociological analysis of the interaction between humans, their artifacts, and the natural environment.|Prereq: jr st & Sociol 101(P).

452 Social Networks in Global Commerce. 3 cr. U. Social networks that connect business people and companies; how networks mediate activities in a global economy; how networks are shaped by national culture and institutions.|Prereq: jr st & a Sociol 100-level course; or grad st.

461 Social Data Analysis Using Regression. 3 cr. U/G. Advanced practical training in multivariate regression using real, large datasets (surveys, census data, etc.); how multiple independent variables influence a dependent variable. No cr for students w/cr in Sociol 499 with similar topic.|Prereq: jr st, Sociol 261(P) or approved stats course; or grad st.

472 Population and Society. 3 cr. U/G. Concepts and methodology of demographic analysis. Nature and framework of population theories and research. Consideration of the social and economic determinants and consequences of trends in mortality, fertility, and migration.|Prereq: jr st; 9 cr in Sociol at 200-level or above.

476 Sociology of International Public Health. 3 cr. U/G. Social, economic, and political factors that influence inequality in health at the global level; interacting influence of micro and macro forces on public health.|Prereq: jr st; 9 cr in Sociol at 200-level or above; or grad st.

489 Internship in Sociology, Upper Division. 3 cr. U. Application of advanced principles of sociology in a business, organization, educational, political or other appropriate setting; includes course work and 120 hrs field work.|Prereq: jr st; declared Sociol major or minor; Sociol 361(P); 2.75 gpa; cons supervising faculty member.

493 Capstone Seminar in Sociology. 3 cr. U. Summary and integration of ideas from diverse Sociology courses. For Sociol majors in their last year of study.|Prereq: sr st; declared Sociol major; grade of C or better in English 102(P) or score at level 4 on EPT.

495 Seminar in Sociology: (Subtitled). 3 cr. U/G. Intensive study in a selected area of Sociology. Designed to encourage discussion, debate, and critical thinking.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; 6 cr 200-level or above Sociol or cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

610 Reproduction of Minority Communities. 3 cr. U/G. Analysis of the social, economic, and cultural forces behind the formation and reproduction of minority and disadvantaged communities in the United States.|Jointly-offered w/& counts as repeat of Ed Pol 610. Prereq: jr st; any Sociol 100-level course.

697 Organizational Admin Capstone. 3 cr. U. Internship, case analysis, or independent study that synthesizes course work in graded paper.|Commun 697, Econ 697, & Sociol 697 are jointly offered; they count as repeats of one another. Prereq: sr st; declared org adm major; satisfaction of GER English Composition competency req; cons instr.

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SPANISH Spanish

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103 First-Semester Spanish. 4 cr. U. Introductory course for students who have had little or no previous work in Spanish. |Open only to students with 2 yrs H.S. Spanish or less or a score of 1 on Spanish placement exam. Prereq: none.

104 Second-Semester Spanish. 4 cr. U. Continuation of Spanish 103. |Generates L&S credits for demonstrated equivalent preparation (4 retro crs). Prereq: grade of C- or better in Spanish 103(P) or level 2 score on Spanish placement exam.

123 Regional Languages of Spain, First Semester: (Subtitled). 3-6 cr. U. Introductory course for students who have had no previous work in one of the official, regional languages of Spain. |May be retaken w/chg of language. Prereq: none.

124 Regional Languages of Spain, Second Semester: (Subtitled). 3-6 cr. U. Second-semester introductory course for students who have had no previous work in one of the official, regional languages of Spain. |May be retaken w/chg of language. Prereq: Spanish 123(P) in same language.

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. |May be retaken w/chg in topic. Prereq: acceptance in Study Abroad Prog.

203 Third-Semester Spanish. 3 cr. U. Continuation of Spanish 104. Review of the main grammatical concepts. Readings in modern Spanish and Spanish-American literature. |Generates L&S credits for demonstrated equivalent preparation (8 retro crs). Prereq: grade of C- or better in Spanish 104(P) or level 3 score on Spanish placement exam.

204 Fourth-Semester Spanish. 3 cr. U. Continuation of Spanish 203. Review of the main grammatical concepts. Readings in modern Spanish and Spanish-American literature. |Generates L&S credits for demonstrated equivalent preparation (11 retro crs). Prereq: grade of C- or better in Spanish 203(P) or level 4 score on Spanish placement exam.

225 Understanding the Hispanic World: (Subtitled). 3 cr. U. Different manifestations of Hispanic culture across

continents and centuries studied from many angles.|In English. May be retaken w/chg in topic to 9 cr max. Prereq: none.

277 Spanish Discussion Section. 1 or 2 cr. U. Discussion in Spanish, designed to broaden perspectives and improve language skills.|Offered in conjunction w/courses in other disciplines or in Spanish. May be retaken to 6 cr max. Prereq: none.

289 Internship in Spanish, Lower Division. 1-3 cr. U. Application of basic principles of Spanish in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 3 cr max. Prereq: intro course in Spanish; 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance into UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before coursework level, content and cr are determined and/or in specially prepared program coursework.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic.|Prereq: none; add'l prereqs may be assigned to specific topic.

308 Advanced Writing and Reading. 3 cr. U. Development of proficiency in different writing styles; emphasis on the most difficult aspects of Spanish through reading and other exercises.|Counts as repeat of Spanish 305 and 316. Generates L&S credits for demonstrated equivalent preparation (14 retro credits). Prereq: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.

315 Spanish Immersion Experience. 1 cr. U. Concentrated practice in spoken Spanish with a native speaker in a small-group setting, with a focus on Hispanic culture. Offered in three-day modules.|May be retaken to 3 cr max. Prereq: Spanish 308(P); Spanish 318 (P) or 319 (P); or cons instr.

318 Advanced Speaking and Listening. 3 cr. U. Development of oral proficiency in relation to Hispanic culture.|For non-heritage Spanish speakers. Students cannot receive credit for both 318 and 319. Generates L&S credits for demonstrated equivalent preparation (14 retro cr). Prereq: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.

319 Advanced Speaking and Listening for Heritage Speakers. 3 cr. U. Development of full proficiency in reading, writing, and speaking skills in Spanish for students with native/near-native command of these skills.|Open only to heritage Spanish speakers. Others with near-native proficiency admitted at instr discretion. Students cannot receive credit for both 318 and 319. Generates L&S credits for demonstrated equivalent preparation (14 retro credits). Prereq: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.

332 Business and Legal Spanish I. 3 cr. U. Business and legal language and practice in Spanish-speaking countries.|Prereq: Spanish 308(P); Spanish 318(C) or 319(C).

333 Advanced Spanish Grammar. 3 cr. U. Designed to solidify written expression skills and provide a clear understanding of Spanish grammar rules at an advanced level.|Prereq: Spanish 308(P); Spanish 318(P) or 319(P).

338 Spanish for Health Professionals. 3 cr. U. Acquisition of intermediate conversational and written skills in medical terminology in Spanish through a communicative approach. For health care students.|Prereq: Spanish 308(P); & grade C- or better in Spanish 318(P) or 319(P) or equiv.

341 Introduction to Hispanic Linguistics. 3 cr. U. Spanish linguistics, including phonetics, phonology, syntax, morphology, semantics, and sociolinguistics.|Generates L&S credits for demonstrated equivalent preparation (14 retro

cr). Prereq: Spanish 308(P); Spanish 318(C) or 319(C).

342 (442) Business and Legal Spanish II. 3 cr. U. Business terminology and concepts; instruction in the legal terminology of Hispanic countries; preparation of documents.|Prereq: Spanish 308(P); Spanish 318(C) or 319(C); or cons instr.

348 Introduction to Translation: English to Spanish. 3 cr. U/G. Basic skills necessary for professional translation. Translation of texts from English into Spanish. Summarizing texts; sight translation.|Prereq: jr st; Spanish 308(P); Spanish 318(C) or 319(C).

350 Introduction to Literary Analysis. 3 cr. U. Designed to acquaint students with the critical tools needed to analyze texts and conduct research.|Prereq: Spanish 308(P); Spanish 318(C) or 319(C).

371 Introduction to Latino Literature in English. 3 cr. U. Introduction to the development of literature by Chicanos, Nuyoricans, and other Hispanics since the late fifties and its historical, social, and political background.|Taught in English. Prereq: jr st or writ cons dept.

373 Topics in Latino Literature in English: (Subtitled). 3 cr. U. Some of the experiences of U.S. Hispanics as reflected in literature, film, and other cultural manifestations.|Taught in English. May be retaken w/chg in topic to 6 cr max. Prereq: jr st or writ cons dept.

377 Introduction to Galician Culture. 3 cr. U/G. Main concepts and issues in understanding the unique culture of Galicia, in northwestern Spain, from a variety of perspectives.|Prereq: jr st; Spanish 308(P); Spanish 318(C) or 319(C); cons instr.

380 Hispanic Literature in Translation: (Subtitled). 3 cr. U. Selected works of Hispanic literature from different periods and genres and representing several subjects.|May be retaken w/chg in topic to 6 cr max. Does not count towards the major or minor. Prereq: jr st.

388 Health Issues in the Hispanic World. 3 cr. U. Different aspects of the health care system in the U.S. in relation to the Hispanic culture(s).|Prereq: Spanish 308(P); & grade C- or better in Spanish 318(P) or 319(P) or equiv.

391 Social and Historical Issues in the Hispanic World: (Subtitled). 3 cr. U. Culture of the Hispanic people, with a focus on a particular social or historical perspective and/or issue.|May be retaken w/chg in topic to 9 cr max. Prereq: Spanish 308(P); Spanish 318(C) or 319(C).

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level.|May be retaken w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

443 Spanish Phonetics and Phonology. 3 cr. U/G. Theory of Spanish sounds; phonetic transcription; practice in pronunciation. Language lab may be required.|Prereq: jr st; Spanish 341(P).

444 Spanish Syntax and Morphology. 3 cr. U/G. Comprehensive review of Spanish syntax and morphology; the meaning of words, sentences, and discourse.|Prereq: jr st; Spanish 341(P).

446 Hispanic Sociolinguistics. 3 cr. U/G. Critical analysis of the relationship between language and society in the Hispanic world.|Prereq: jr st; Spanish 341(P).

470 Survey of Hispanic Literature and Civilization. 3 cr. U. Literature in Spain and Spanish America from the Middle Ages to 1880.|Prereq: jr st; Spanish 350(P).

472 Survey of Spanish-American Literature and Civilization. 3 cr. U. Literature in Spanish America from Modernism to the present.|Prereq: jr st; Spanish 350(P).

474 Survey of Spanish Literature and Civilization. 3 cr. U. Literature in Spain from Realism to the present. | Prereq: jr st; Spanish 350(P).

489 Internship in Spanish, Upper Division. 1-3 cr. U. Application of advanced principles of Spanish in a business, organizational, educational, political, or other appropriate non-salaried setting. | One cr earned for academic work based on 40 hrs in internship. May be retaken to 3 cr max. Prereq: jr st; 6 cr at 400-level or above in Spanish; 3.50 gpa in Spanish major; writ cons supervising faculty member and dept chair.

491 (461) Topics in Hispanic Culture: (Subtitled). 3 cr. U/G. The culture of a group of Hispanic people from a particular social and/or historical perspective, with a focus on one or more manifestations of that culture. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 350(P); 3 cr from Spanish 470(P) or 472(P) or 474(P).

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, contact, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

506 Seminar in Spanish Literature: (Subtitled). 3 cr. U/G. One or more areas of Spanish peninsular literature across periods, genres, or regions. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 474(P).

507 Seminar in Spanish-American Literature: (Subtitled). 3 cr. U/G. One or more areas of Spanish-American literature across periods, genres, or regions. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 472(P).

508 Seminar in Hispanic Literature: (Subtitled). 3 cr. U/G. A literary subject with manifestations in more than one Hispanic literature, including Latino literature, with focus on the differences between/among them. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P); Spanish 472(P) or 474(P).

541 (441) History of the Spanish Language. 3 cr. U/G. External and internal history of the evolution of the Spanish language. | Prereq: jr st; Spanish 341(P); 3 cr from Spanish 443(P) or 444(P) or 446(P), or cons instr.

545 Seminar in Hispanic Linguistics: (Subtitled). 3 cr. U/G. One or more branches of linguistics, such as dialectology, pragmatics, sociolinguistics, historical linguistics, etc., in relation to the Hispanic languages. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 341(P); 3 credits from Spanish 443(P) or 444(P) or 446(P), or cons instr.

570 Seminar in Spanish Golden Age Literature: (Subtitled). 3 cr. U/G. Topics on the poetry and/or the narrative and didactic prose of the late sixteenth and the seventeenth centuries. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 474(P).

571 Seminar in Spanish-American Colonial Literature and Civilization: (Subtitled). 3 cr. U/G. Poetry, narrative, didactic prose, and dramatic literature of Spanish America up to the eighteenth century. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 472(P).

572 Seminar on Cervantes: (Subtitled). 3 cr. U/G. 'Don Quixote' and/or other works by Cervantes. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 474(P).

575 Seminar in 18th & 19th Century Spanish-American Literature & Civilization: (Subtitled). 3 cr. U/G. Topics on the poetry, fiction, drama and/or essay of the Spanish-American countries during the 18th and 19th centuries. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 472(P).

577 Seminar in Modern Spanish-American Literature and Civilization: (Subtitled). 3 cr. U/G. Topics on the poetry, fiction, essay, and/or drama of the Spanish American countries after 1888. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 472(P).

578 Seminar in Modern Spanish Literature and Civilization: (Subtitled). 3 cr. U/G. Topics on the poetry, fiction, and/or drama of twentieth- and twenty-first-century Spain. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 474(P).

595 Spanish for Reading Knowledge. 3 cr. U. Reading proficiency for students who are not Spanish majors but who have an interest in learning and/or solidifying their reading skills in the language. | Counts as repeat of Spanish 499 with same topic. Prereq: jr st.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Independent Study. 1-3 cr. U. Advanced independent work under supervision of Spanish faculty or instructional academic staff member. Instructor must approve student's study proposal. For more information, consult dept chair. | May be retaken w/chg in topic to 3 cr max. Prereq: jr st; 2.5 overall GPA; 3.5 Spanish GPA; writ cons instr, dept chair, & asst dean for SAS.

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SPT&REC Sport and Recreation

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100 Sports Officiating - Basketball. 1 cr. U. Officiating, conducting and administering the sport of basketball.|Prereq: none.

104 Sports Officiating - Volleyball. 1 cr. U. Officiating, conducting, and administering the sport of volleyball.|Prereq: none.

110 Physical Conditioning. 1 cr. U. Theory & practice of physical conditioning.|Prereq: none.

112 Yoga I. 1 cr. U. Theory and practice of yoga.|Prereq: none. It is highly recommended that students bring a mat and a blanket or towel for their comfort. These items are not provided by the department.

113 Yoga II. 1 cr. U. Theory and practice of yoga II.|Prereq: Spt&Rec 112(P). It is highly recommended that students bring a mat and a blanket or towel for their comfort. These items are not provided by the department.

114 Weight Training I. 1 cr. U. Theory and practice of weight training.|Prereq: none.

115 Weight Training II. 1 cr. U. Theory and practice of weight training II.|Prereq: Spt&Rec 114(P).

116 Aerobic Dance. 1 cr. U. Theory and practice of aerobic dance.|Prereq: none.

117 Step Aerobics. 1 cr. U. Theory and practice of Step Aerobics|Prereq: none.

120 Swim I. 1 cr. U. Theory and practice of swim I.|Prereq: none.

121 Swim II. 1 cr. U. Theory and practice of swim II.|Prereq: Spt&Rec 120(P) or swim one length of pool (25 yards) any stroke.

123 Water Aerobics. 1 cr. U. Theory and practice of aerobic water exercise.|Prereq: none.

126 Skin & Scuba. 1 cr. U. Theory and practice of skin and scuba.|Prereq: none.

130 Ballroom Dance I. 1 cr. U. Theory and practice of ballroom dancing.|Prereq: none.

131 Ballroom Dance II. 1 cr. U. Theory and practice of ballroom dancing.|Prereq: Spt&Rec 130(P).

156 Orienteering. 1 cr. U. Theory and practice of orienteering.|Prereq: none.

161 Bowling I. 1 cr. U. Theory and practice of bowling|Prereq: none.

162 Bowling II. 1 cr. U. Theory and practice of bowling.|Prereq: Spt&Rec 161(P).

166 Golf. 1 cr. U. Theory and practice of golf.|Prereq: none.

172 Tae Kwon-Do. 1 cr. U. Theory and practice of tae kwon-do.|Prereq: none.

173 Tae Kwon-Do II. 1 cr. U. Theory and practice of tae kwon-do.|Prereq: Spt&Rec 172(P) or equiv.

174 Self-Defense. 1 cr. U. Theory and practice of self-defense.|Prereq: none.

176 Basketball. 1 cr. U. Theory and practice of basketball.|Prereq: none.

179 Handball. 1 cr. U. Theory and practice of handball.|Prereq: none.

180 Racquetball I. 1 cr. U. Theory and practice of racquetball.|Prereq: none.

181 Racquetball II. 1 cr. U. Theory and practice of racquetball.|Prereq: Spt&Rec 180(P).

182 Tennis I. 1 cr. U. Theory and practice of tennis.|Prereq: none.

183 Tennis II. 1 cr. U. Theory and practice of tennis.|Prereq: Spt&Rec 182.

185 Karate I. 1 cr. U. Theory and practice of karate.|Prereq: none.

186 Karate II. 1 cr. U. Theory and practice of karate.|Prereq: Spt&Rec 170(P) or 185(P).

187 Karate III. 1 cr. U. Theory and practice of karate.|Prereq: Spt&Rec 171(P) or 186(P) or equiv.

191 Volleyball. 1 cr. U. Theory and practice of volleyball.|Prereq: none.

192 Volleyball II. 1 cr. U. Theory and practice of volleyball.|Prereq: Spt&Rec 178(P) or 191(P) or equiv.

289 General Recreation Activities: (Subtitled). 1-2 cr. U. Topics of current interest focusing on life-long participation and skill development in general recreation and leisure activities. Credits for specific topics announced in Schedule of Classes.|Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

290 Ad Hoc Course in Sport and Recreation: (Subtitled). 1-3 cr. U. Topics of current interest in health, leisure, and recreation. May be retaken w/chg in topic. Special course fees may be required depending on course. Prereq: specified in semester Schedule whenever required for a topic|May be retaken w/chg in topic.

291 Recreational Arts and Crafts: (Subtitled). 1-2 cr. U. Topics of current interest focusing on life-long participation and skill development in the area of Arts and Crafts. Credits for specific topics announced in Schedule of Classes.|Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

291 (effective 09/04/2018) Recreational Arts and Crafts: (Subtitled). 1-2 cr. U. Topics of current interest focusing on

life-long participation and skill development in the area of Arts and Crafts. Credits for specific topics announced in Schedule of Classes.|Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

292 Social and Creative Dance: (Subtitled). 1-2 cr. U. Topics of current interest focusing on life-long participation and skill development in the area of Social and Creative Dance. Credits for specific topics announced in Schedule of Classes.|Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

293 Martial Arts: (Subtitled). 1-2 cr. U. Topics of current interest focusing on life-long participation and skill development in martial arts. Credits for specific topics announced in Schedule of Classes.|Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

294 Wilderness Adventure and Outdoor Activities: (Subtitled). 1-2 cr. U. Topics of current interest focusing on life-long participation and skill development in the areas of Wilderness Adventure and Outdoors Activities. Credits for specific topics announced in Schedule of Classes.|Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

295 Organized Sport: (Subtitled). 1-2 cr. U. Topics of current interest focusing on life-long participation and skill development in the area of sport. Credits for specific topics announced in Schedule of Classes.|Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

296 Exercise and Fitness Activities: (Subtitled). 1-2 cr. U. Topics of current interest focusing on life-long participation and skill development in the area of Exercise and Fitness. Credits for specific topics announced in Schedule of Classes.|Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

298 Meditation, Relaxation, and Wellness: (Subtitled). 1-2 cr. U. Topics of current interest focusing on life-long participation and skill development in the areas of meditation, relaxation, and wellness. Credits for specific topics announced in Schedule of Classes.|Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic. Prereq: none, except as required for specific topic.

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THERREC Therapeutic Recreation

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103 Introduction to Leisure. 3 cr. U. Introductory survey of the historical, philosophical, sociological, developmental, and cultural aspects of recreation, leisure, and play. | Prereq: none.

200 Psycho/Social Aspects of Leisure. 3 cr. U. Study of the psychological and sociological aspects of leisure participation. | Prereq: none.

202 Disability: Society and the Person. 3 cr. U. Goals are to introduce and sensitize students to individuals with disabilities and to enable students to understand the psychological and social impact of disability. | Prereq: none.

203 Therapeutic Recreation Process. 3 cr. U. Study of Therapeutic Recreation (TR) process including the values and underpinning of practice, and the inter-relationships between TR, health care and human service professionals. | Counts as a repeat of TherRec 390 with same topic. Course taught completely online. Prereq: none.

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity. | BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Prereq: soph st or cons instr.

297 Study Abroad - Therapeutic Recreation: 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. | May be retaken w/chg in topic. Prereq: Acceptance to Study Abroad Prog.

300 Therapeutic Recreation Assessment and Documentation. 4 cr. U. Study and practice of therapeutic recreation assessment and documentation techniques. | Prereq: none.

301 Program Development and Evaluation in Therapeutic Recreation. 3 cr. U. Study of systematic program design and evaluation techniques. | Prereq: jr st in TherRec major or cons instr.

303 Inclusive and Disability Programs in the Community. 3 cr. U. Study of concepts and practices related to the delivery of community programs for individuals with disabilities. | Prereq: none.

308 Therapeutic Recreation in Physical Rehabilitation and Behavioral Health. 4 cr. U. Therapeutic recreation services for individuals with physical disabilities and psychiatric disorders. | Not open for cr for students with cr in

TherRec 304(ER) or TherRec 305(ER). Prereq: none

309 Therapeutic Recreation in Pediatrics and Gerontology. 4 cr. U. Therapeutic recreation services for children/adolescents and elderly individuals. |Not open for cr for students with cr in TherRec 306(ER) or 307(ER). Prereq: jr st or cons instr.

310 Facilitation Techniques in Therapeutic Recreation. 4 cr. U. Study of therapeutic recreation facilitation techniques. |Prereq: None.

390 Topics in Therapeutic Recreation: (Subtitled). 1-3 cr. U. Topics of current interest in therapeutic recreation. Specific credits and additional prerequisites will be announced in the Schedule of Classes whenever the course is offered. |Prereq: none.

399 Independent Study in Therapeutic Recreation. 1-3 cr. U. Individualized experience which enables the student to study current topics of interest to the therapeutic recreation specialist. |May be retaken to max of 3 cr. Prereq: jr st or cons instr.

400 Issues and Trends in Therapeutic Recreation (TR). 3 cr. U. Examination of the most current issues and trends in the field and advancement of the profession. |Prereq: TherRec 308(P) or cons instr.

401 Therapeutic Recreation Internship and Seminar. 12 cr. U. Therapeutic recreation field instruction at approved agencies for forty hours per week for a full semester. Seminar to prepare students for professional involvement. |Prereq: must have completed all course work in the TherRec major.

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THEATRE Theatre

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100 Introduction to the Theatre. 3 cr. U. Introduction to the theatre as a form of artistic, social and human expression from point-of-view of both theatre audience and theatre artist.|Attendance at live theatrical performances required. Prereq: none.

101 Acting for Non-majors. 3 cr. U. An introduction to basic acting techniques of personalization, focus, and scene study explored through participatory and collaborative exercises and assignments.|Prereq: Non-Theatre major.

108 Introduction to Musical Theatre. 3 cr. U. Techniques of acting and singing in the performance of musical theatre. Classroom exercises, lectures, and classroom performance assignments.|May be retaken to max of 6 cr. Prereq: none.

110 Fundamentals of the Actor's Process. 3 cr. U. Basic acting techniques of personalization, focus of attention, theatricality and scenic truth explored through exercises, improvisation, development of ensemble and solo and partnered performance|Prereq: Theatre major or cons instr.

111 Theatre Games. 3 cr. U. An introduction to a wide variety of improvisations and games which are designed to free and channel the self expression of performers and non-performers.|Prereq: none.

120 Performance and Popular Culture. 3 cr. U. Elements of theatre in live performance, television programs, periodical and television advertisements, film, and music video.|Prereq: none.

150 Multicultural America: (Subtitled). 3 cr. U. Cross cultural study of US ethnic and racial identities through materials drawn from a variety of theatrical arts practices.|May be retaken w/chg in topic to 6 cr max. Prereq: none

202 Theatre Practicum. 1-4 cr. U. Practical work on live performance productions. Credit earned by serving on publicity, house, stage, sound, light, or costume crews, or by stage managing or performing.|May be retaken to max of 4 cr. Prereq: Theatre 214(P), 225(P), 275(P); or cons instr.

204 Theatre and Social Change. 3 cr. U. Introduction to the study, methodologies, and practice of participatory theatre including happenings, environmental theatre, therapeutic theatre, and celebratory theatre.|Prereq: none

213 Play Analysis. 3 cr. U. Methods of analysis of the dramatic text for production; the elements of a play through discussion and written analysis of selected works.|Prereq: none.

214 Stagecraft. 4 cr. U. Principles and practices of theatrical construction techniques for scenery and props, lighting and sound installation emphasizing safety and craftsmanship. Requires scheduled work in production studios under faculty supervision.|Prereq: none

215 Properties Production. 3 cr. U. Introductory properties shop/management artisan skills with basic construction and finishing techniques for stage properties.|Prereq: none.

218 Computer Modeling and Graphics for Live Performance. 3 cr. U. Development of basic techniques in computer aided design and graphic arts for the theatre. |Prereq: none.

219 Computer Assisted Drafting for the Theatre. 3 cr. U. Development of skills in computer aided drafting techniques for scenery, properties, and lighting.|Specific computer hardware and/or software is required. Check with instr for specifics. Prereq: Theatre 218(P) or cons instr.

224 Make-Up. 3 cr. U. Emphasis on materials, effects of light, color and character analysis.|Prereq: none

225 Costume Construction. 4 cr. U. Mechanics and technology of art of costuming. All aspects of costumer's craft surveyed including practical work in shop.|Prereq: none.

230 Acting 2: Text and Performance. 3 cr. U. Basic acting techniques in realism and extended realism through scene work and exercises exploring dramatic action, focus of attention and script analysis.|Prereq: Theatre 110(P) or cons instr.

231 Introduction to Voice and Speech. 3 cr. U. Lectures and exercises designed to begin the development of a more open, resonant, and flexible speaking voice for everyday use.|Prereq: none.

236 Theatre Production and Design. 3 cr. U. Design process exploring styles, methods, and presentation for scenery and costumes in traditional and non-traditional theatre.|Prereq: Theatre 214(P) or 225(P)

260 (460) Storytelling: (Subtitled). 3 cr. U. Development of skills to locate, analyze, and tell stories from multicultural sources and ranging from personal experience to myths and legends.|May be retaken w/chg in topic to max of 3 sem. Prereq: none, except as required for specific topic.

275 Performing Arts Management. 3 cr. U. Exploration of stage and theatre management processes including rehearsal and production management techniques and introductory management principles for non-profit theatre|Prereq: none.

285 Costume Construction 2. 3 cr. U. Construction of costumes; advanced tailoring techniques, practical application of classwork in costume shop.|Prereq: Theatre 225(P) or cons instr.

301 Theatrical Millinery. 3 cr. U. Projects in costume accessory construction. Emphasis on millinery and hat blocking.|Prereq: Theatre 225(P) or cons instr.

303 (102) Introduction to Design and Production for Performance. 3 cr. U. Exploring design concepts for performance / theatrical production environments. Emphasis on different production styles, creativity, and design collaboration.|Prereq: none.

304 Costume Design. 3 cr. U. Designing the play, understanding the basic principles of costume design. Rendering technique, color theory and the elements of design are covered.|Prereq: none

305 The Theatrical Experience: (Subtitled). 3 cr. U. Performances, demonstrations, and lectures focusing on specific aspects of theatrical production. Attendance at live theatrical performances required|May be retaken w/chg in topic to 9 cr max. Prereq: none.

308 Advanced Makeup: (Subtitled). 3-6 cr. U. Advanced Makeup techniques for stage and film. |Counts as repeat of Theatre 690. May be retaken to max of 9 cr. Prereq: Theatre 224(P); or cons instr.

311 Advanced Improvisation. 3 cr. U. Advanced study in a wide variety of long-form acting improvisations designed to free and channel self expression of performers and non-performers. |Prereq: Theatre 111(P) or cons instr. Improvisational performance attendance required.

314 Special Effects for Stage Scenery. 3 cr. U. Practical design, fabrication and installation of scenic effects emphasizing the use of pneumatics, electric motors and sensors. |Prereq: Theatre 214(P).

315 Advanced Properties Production. 3 cr. U. Exploring advanced prop making processes and products for the stage and studio. |Prereq: Theatre 215(P) or 225(P) or cons instr.

318 Scene Design. 3 cr. U. Development of design sensibility for stage set design from script analysis, research, and initial concept to model making of final design. |Prereq: Theatre 236(P) or cons instr.

319 Scenic Painting. 3 cr. U. Development of skills in stage painting techniques for scenery and properties. |Prereq: none.

320 Arts and Social Entrepreneurship. 3 cr. U. Exploring the development of communities through cultural and performing practices through community-based work in the arts. |Prereq: Theatre 204(P) or 260(460)(P) or cons instr.

321 The Theatre: Beginnings Through Realism. 3 cr. U. Study of the development of theatre art and its practice, performance, and scripts, from classical antiquity through the 19th century. |Prereq: soph st; satisfaction of GER OWC-A req.

322 The Theatre: Modern and Contemporary Period. 3 cr. U. Study of the development of theatre art and its practice, performance, and scripts from 1900 to the present. |Prereq: soph st; satisfaction of GER OWC-A req.

323 Special Topics in World Theatre: (Subtitled). 3 cr. U. Exploration of theatre and ritual in cultures and countries around the world. |Prereq: May be retaken with chg in topic to 6 cr max; Theatre 321(P) or 322(P) or cons instr.

324 Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre. 3 cr. U. Survey of Latin American, Caribbean, and U.S. Latina/o theatre and performance. History and cultures of the Americas that shape these productions. |Counts as repeat of LACS 324 or Latino 324. LACUSL 324 & Theatre 324 are jointly-offered; they count as repeats of one another. Prereq: jr st.

325 History of Costume. 3 cr. U. Study of costume and fashion from Egyptians to present. Emphasis on the sociological and cultural changes in patterns of dress and behavior. |Prereq: none.

327 The Digital Theatre - Pocket Tech. 3 cr. U. Using everyday technology to explore burgeoning digital storytelling techniques fundamental to theatre arts. |Prereq: none.

330 Acting Topics: 3 cr. U. Exploration of advanced acting techniques through various topic changes. |May be retaken with change in topic. Prereq: Theatre 230(P); & cons instr.

332 Tailoring. 3 cr. U. Construction of costume: tailoring techniques with an emphasis on textiles, cutting, fitting, and alterations. |Prereq: Theatre 285(P).

337 Sound Production and Digital Editing for Stage and Studio. 3 cr. U. Exploration of sound recording and playback techniques for live performance including digital editing and computer based show control systems. |Prereq: none.

338 Lighting Production. 3 cr. U. Hands-on exploration of seeing, making, and controlling light with emphasis on its practical application in live performance, video/film, architecture, and experiential design.|Prereq: none.

339 Stage Combat. 3 cr. U. Basic techniques of unarmed stage combat focusing on safety, partnering skills, and technical proficiency.|Prereq: none.

343 Patternmaking and Draping. 3 cr. U. Exploration of flatpattern drafting and fabric draping for stage costumes.|Prereq: Theatre 285(P).

354 Draping. 3 cr. U. Introduction to principles of draping techniques applied to stage costumes.|Prereq: Theatre 343(P).

357 Digital Audio Workstations for Stage and Studio. 3 cr. U. Explore computer technology technology to create, manipulate, edit and render digital audio for performance and recording. Music, sound effects, synthesis, and MIDI are focus topics.|Prereq: none, online course.

359 Playwriting. 3 cr. U/G. Playwriting process through in-class exercises, writing assignments, critical analysis, and discussion.|Prereq: jr st

360 Service-Learning in Theatre: (Subtitled). 1 cr. U. Applied theatre, social justice oriented, storytelling, and/or performance projects developed through service-learning and in community settings.|May be retaken w/chg in topic to max of 3 sem. Prereq: Theatre 260(460)(P) or cons instr.

380 Stage Management. 3 cr. U. Development of skills for the successful management of theatrical productions from auditions through rehearsal and performance.|Prereq: none.

400 Foundations. 1 cr. U. Exercises from various disciplines to stretch, energize, and prepare for the day's work in acting and production.|May be retaken for cr. Prereq: Admis. to Theatre BFA Acting track.

401 Fabric Painting and Dyeing. 3 cr. U. Study and practical work in dyeing and painting fabrics for stage purposes.|Prereq: Theatre(ThrPTTP) 225(P) or 215(P); or cons instr

407 Contemporary Theatre Performance: (Subtitled). 1-3 cr. U. Study of plays and current productions, playwrights, directors, actors, and theatrical practices in selected cities. Credits determined in consultation with instructor.|May be retaken w/chg in topic. Prereq: none.

408 Acting in Musical Theatre. 3 cr. U. Scene study in musical theatre, developing character through song, movement and text.|Prereq: Theatre 110(P) or cons instr.

410 Stage Directing. 3 cr. U/G. Basic skills of staging, play analysis, rehearsal technique, and production organization.|Prereq: jr st; Theatre 213(P) & 230 (P); or cons instr.

412 Career Preparation and Development. 1-2 cr. U. Explore theatre careers, research job search methods/ processes-portfolio, resume, webpages- for job interviews/auditions and create a long-range career plan.|May not be retaken for credit. Production BFA majors enroll for 2 cr., Performance BFA majors enroll for 1 cr. Prereq: none.

415 Casting and Molding for the Stage. 3 cr. U. Study of one-part and two-part molding and casting applications including sculpting for mask making and stage properties.|Prereq: Theatre 215(P) or 225(P) or cons instr.

418 Lighting Studio. 3 cr. U. Exploration of elements and principles of lighting design and creative design process.|Prereq: none.

430 Stage Voice and Speech 1. 3 cr. U. Exploration of vocal anatomy, breath and breath support for speech, individual vocal habits and the actor's vocal warm-up.|Prereq: Admis to Theatre BFA Acting track.

431 Stage Voice and Speech 2. 3 cr. U. Continuation of Theatre 430.|Prereq: Theatre 430(P).

432 Advanced Theatre Practicum. 1-6 cr. U. Advanced level practical work on live stage or studio events in any area of production, design, management or performance.|May be retaken to max of 9 cr. Prereq: jr st & cons instr.

435 Production Management. 3 cr. U. Theatre management processes utilizing leadership, problem-solving, and project management skills for budgeting, scheduling, personnel and facility management, and season planning.|Prereq: Theatre 275(P) or cons instr.

437 Sound Design and Digital Editing. 3 cr. U. Skill development in designing sound and using digital editing systems to create sound effects, sound-scaping and basic music composition for storytelling on the stage.|Prereq: none.

440 Physical Performance 1. 3 cr. U. Training and exercises to create physical awareness, skills, and presence in space for performance through movement, improvisation, and sensory/composition work.|Prereq: Admis to Theatre BFA acting track.

441 Physical Performance 2. 3 cr. U. Physical exercises, improvisation, and text work to deepen the connection between actor and imagination utilizing full bodywork for creating character and dramatic action.|Prereq: admis to Theatre BFA acting track; Theatre 440(P).

443 Pattern Making II. 3 cr. U. Continuation of Pattern Making with an emphasis on period styles and menswear patterns.|Prereq: Theatre 343(240)(P).

448 How to be a Teaching Artist. 3 cr. U. Understanding and utilizing creative drama and other arts-in-education techniques to enhance experiential learning in classrooms and other educational venues.|Prereq: soph st or cons instr.

463 Master Class in Professional Theatre Study. 1 cr. U. Ongoing development of aesthetic and professional philosophies and practices in performance.|May be retaken to max of 6 cr. Prereq: Admis to Theatre BFA acting track or writ cons instr

465 Theatre Capstone: (Subtitled). 3 cr. U. Theatre techniques to enhance communication, mediation, and leadership in community, cultural, educational, and business settings. Community-based project work required.|May be retaken w/chg in topic to 6 cr max. Prereq: Theatre 320(P); or cons instr.

470 Acting Technique 3. 3 cr. U. Development of basic acting skills and application to texts drawn from American realism. Emphasis on psycho-physical technique, dramatic action, personalization, expressive use of self.|Prereq: Theatre Major with admission to BFA acting track.

471 Acting Technique 4. 3 cr. U. Fundamentals of acting in classical texts.|Prereq: Admis to Theatre BFA acting track, Theatre 470(P).

472 Performance Workshop Capstone. 2-4 cr. U. Workshops in creating performance under faculty supervision.|May be retaken for cr. Prereq: Theatre 320(P) or 359(P) or 218(P); or cons instr.

473 Theatre in Elementary Education. 3 cr. U. Theatre experiences for growth and development of elementary school child. Discussion, lectures, and experimentation, analysis of materials, age groups, and situations. Teaching of children's theatre classes.|Prereq: soph st or cons instr.

474 Theatre in Secondary Education. 3 cr. U. Methods and philosophy of teaching theatre in the secondary school. Theory and practice in solving problems arising in practical teaching situations. Observation of Theatre classes.|Prereq: soph st or cons instr.

475 Rehearsal and Performance: 2-3 cr. U. Practical experience in the preparation, rehearsal, stage management or

performance of theatrical productions. | May be retaken for credit to max of 12 cr. Credit granted per production assignment. Prereq: cons instr.

480 Leadership Skills for Theatre Management. 3 cr. U. Development of management skills for organizing and running theatrical productions by understanding personal leadership styles, communication techniques, conflict resolution, and problem-solving within the artistic process. | Prereq: none.

484 Field Work in Theatre. 1-3 cr. U/G. Theatre education field experiences in schools, agencies, and institutions. | May be retaken to max of 3 sem. Prereq: Theatre majors; Thr BA 473(P) or 474(P); & cons instr.

485 Elementary Level Student Teaching in Theatre. 2-6 cr. U/G. Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of Theatre faculty; weekly seminar; portfolio development. | May not be retaken for cr. Prereq: jr st & admis to Theatre teaching cert & cons instr

486 Secondary Student Teaching in Theatre. 2-6 cr. U/G. Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of the Theatre faculty; weekly seminar; portfolio development. | May not be retaken for cr. Prereq: jr st; admis to Theatre teaching cert; Theatre 484(P) & writ cons instr.

490 Topics in Theatre: (Subtitled). 1-4 cr. U/G. Various forms of theatre processes or theatrical presentation/production. Specific credits and add'l prereq's announced in Schedule of Classes whenever course is offered. | May be retaken w/chg in topic to max of 8 cr. Prereq: jr st; see Schedule of Classes for add'l prereq's.

497 Study Abroad in Theatre. (Subtitled). 1-12 cr. U. Interdisciplinary and foundational exploration of world theatre through exchange programs, performance tours, or foreign cultural study. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog. Foreign language proficiency required for some programs.

530 Stage Voice and Speech 3. 3 cr. U. Vocal exploration through analysis of verse and heightened language, recorded voice work, and beginning dialects for the stage. | Prereq: Theatre 431(P).

531 Stage Voice and Speech 4. 3 cr. U. Advanced dialects for stage utilizing individual research and presentation of a dialect focusing on advanced voice and speech work. | Prereq: Theatre 530(P).

540 Physical Performance 3. 3 cr. U. Development of and training in extended physical theatre techniques drawn from current performance research and text study. | Prereq: Theatre 441(P).

541 Physical Performance 4. 3 cr. U. Exploration of movement and acting challenges through rehearsal and performance of new play texts. | Prereq: Theatre 540(P).

570 Acting 5. 3 cr. U. Scene work in pre-modern texts. | Prereq: Admis to Theatre BFA acting track, Theatre 471(P)

571 Acting 6. 3 cr. U. Contemporary Performance Techniques. Work in the development and performance of new and contemporary material through ensemble work and physical theatre techniques. | Prereq: Admis to Theatre BFA acting track; Theatre 570(P).

575 Studio. 1-4 cr. U. Practical application of all phases of production, rehearsal, and performance. | May be retaken to max of 16 cr. Prereq: admis to Theatre Production BFA track.

675 Advanced Studio. 1-6 cr. U. Advanced practical application of all phases of production, rehearsal, and performance. | May be retaken to max of 12 cr. Credit granted per production assignment. Prereq: Theatre 575(P) or 475(P); & cons instr.

681 Seminar in Dramatic Literature: (Subtitled). 3 cr. U. Discussion and research in a specific area of dramatic literature. | May be retaken w/chg in topic to 9 cr max. Prereq: cons instr.

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- 685 Internship in Professional Theatre. 1-6 cr. U/G.** Engagement with a professional Theatre in individual discipline area. | May be retaken to max of 12 cr. Prereq: jr st.
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- 689 Independent Study-Stage Management. 1-6 cr. U/G.** Individualized program of supervised study in stage management. Work on productions in stage management is required. | May be retaken to max of 9 cr. Prereq: jr st & cons instr.
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- 690 Independent Study--Make-Up. 1-6 cr. U.** Individual program of supervised study in make-up. | May be retaken to max of 9 cr. Prereq: jr st, writ cons instr.
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- 691 Independent Study-Acting. 1-6 cr. U/G.** Individual program of supervised study in acting. | May be retaken to max of 9 cr. Prereq: jr st & cons instr.
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- 692 Independent Study-Technical Theatre, Scene Design and Lighting. 1-6 cr. U/G.** Individual program of supervised study in technical theatre, scene design, or lighting. | May be retaken to max of 9 cr. Prereq: jr st & cons instr.
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- 693 Independent Study-Costumes. 1-6 cr. U/G.** Individual program of supervised study in costumes. | May be retaken to max of 9 cr. Prereq: jr st & cons instr.
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- 694 Independent Study-Directing. 1-4 cr. U/G.** Individual program of supervised study in directing. | May be retaken to max of 9 cr. Prereq: jr st & cons instr.
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- 695 Independent Study-History, Literature, and Criticism. 1-6 cr. U/G.** Individual program of supervised study in history, literature, and criticism. | May be retaken to max of 9 cr. Prereq: jr st & cons instr.
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- 696 Independent Study-Playwriting. 1-6 cr. U/G.** Individual program of supervised study in playwriting. | May be retaken to max of 9 cr. Prereq: jr st & cons instr.
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- 697 Independent Study-Theatre Education and Theatre for Young Audiences. 1-6 cr. U/G.** Individual program of supervised study in theatre education and children's theatre. | May be retaken to max of 9 cr. Prereq: jr st & cons instr.
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- 698 Independent Study-Theatre Management and Public Relations. 1-6 cr. U/G.** Individual program of supervised study in theatre management and public relations. | May be retaken to max of 9 cr. Prereq: jr st & cons instr.
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- 699 Independent Study: (Subtitled). 1-6 cr. U/G.** Individual program of supervised study in the student's area of emphasis. | May be retaken to max of 9 cr. Prereq: jr st & cons instr.
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URBPLAN Urban Planning

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140 Issues in Contemporary Urban Planning. 3 cr. U. To explore areas of employment, poverty, health, politics, police, corrections, education, and housing and the relationship of the professional to these problems.|Prereq: none.

141 Urban Planning Solutions to Contemporary Urban Problems. 3 cr. U. Professional role of urban planners in addressing social and economic justice considerations, including fair housing, economic opportunity, and health and environmental disparities.|Prereq: none.

292 Current Planning Issues: (Subtitled). 3 cr. U. This course provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis.|May be retaken w/content change to 9 cr max. Prereq: soph st.

315 Great Cities of the World: Their Growth and Guided Urbanization. 3 cr. U. Great cities of the world, how they were built and developed. Culture, politics and economics, their role in urban planning and the built form.|Prereq: soph st.

316 Planning for the Great Cities of America. 3 cr. U. The study of planning and development programs of large American cities and their approaches to growth, change, and decay, with a view to future solutions.|Prereq: soph st.

350 Social Justice, Urban Planning and the New Multicultural America. 3 cr. U. Examination of historical, sociological, economic and political relationships that impact urban communities. Community and social justice issues are addressed from a planning perspective.|Prereq: soph st.

399 Independent Study. 3 cr. U. Independent investigation of issues related to urban planning.|May not be retaken for cr. Prereq: jr st; cons instr.

491 Urban Planning Internship. 3 cr. U. Practical urban planning experience with a government agency or private firm under the supervision of a working expert and a faculty member.|Prereq: sr st & cons instr.

497 Study Abroad: (Subtitled). 3-12 cr. U. Field study designed to provide relevant course work for a study abroad program in urban planning.|May be retaken w/chg in topic. Prereq: acceptance to Study Abroad Prog.

591 Introduction to Urban Geographic Information Systems (GIS) in Planning. 3 cr. U. Use of spatially related

information including GIS and land record systems for improved productivity and decision making in service delivery, management, policy planning and land development.|Counts as repeat of UrbPlan 692 with same title. Prereq: jr st.

630 Budgeting and Finance in the Public Sector. 3 cr. U/G. Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.|Jointly-offered w/& counts as repeat of Pub Adm 630(Pol Sci 630). Prereq: sr st or cons instr.

651 Land Use Planning Practice. 3 cr. U/G. Specific land planning methods and applications (subdivision regulation, zoning, site plan review, building permit process) used to implement community plans.|Prereq: sr st.

655 Negotiation Theory and Practice for Urban Planners. 3 cr. U/G. Negotiation theory and practice, focusing on skills used by planners in balancing the needs of general public with those of private interests.|Counts as repeat of UrbPlan 692 with same title. Prereq: sr st or cons instr.

662 (effective 01/22/2019) Public Sector Influence on Real Estate Development. 3 cr. U/G. Introduction to contemporary trends in urban redevelopment; focus on planning and development techniques used to revitalize declining urban areas.|Prereq: jr st.

662 Land Use Planning for Urban Redevelopment. 3 cr. U/G. Introduction to contemporary trends in urban redevelopment; focus on planning and development techniques used to revitalize declining urban areas.|Prereq: jr st.

682 Planning for Sustainable Energy. 3 cr. U/G. An exploration of the need for sustainable energy, the potential savings in various alternatives, and the roles and specific actions local governments can take.|Prereq: sr st.

684 Planning Local Economic Development. 3 cr. U/G. Exploration of the role of planning in the generation, evaluation, and implementation of policies for the development and revitalization of communities.|Prereq: jr st & cons instr.

692 Special Topics in Urban Planning: (Subtitled). 1-3 cr. U/G. Provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis. Specific cr & any additional prereqs announced in Schedule of Classes whenever course is offered.|May be retaken w/chg in topic to max of 9 cr. Prereq: jr st or cons instr.

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150 Multicultural America. 3 cr. U. Cross-cultural study of U.S. ethnic and racial identities from an urban studies perspective, with attention to African-, Asian-, Hispanic-, and Native-American experiences.|Cultures and Communities Prog course; req'd service learning component. Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

250 Exploring the Urban Environment. 3 cr. U. The nature of the city, the processes that effect change, and the future of the city.|Prereq: none.

289 Internship in Urban Studies, Lower Division. 1-6 cr. U. Application of basic principles of Urban Studies in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: intro course in Urb Std or related area; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

360 Perspectives on the Urban Scene: (Subtitled). 3 cr. U. Topics related to the structure, growth, and change of the urban environment.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

377 Urbanism and Urbanization. 3 cr. U. Theoretical perspectives, substantive themes, and methodological approaches to the study of cities. Impact of historical development and changing spatial patterns on social behavior in metropolitan areas.|Sociol 377 & Urb Std 377 are jointly-offered; they count as repeats of one another. Prereq: jr st & a Sociol 100-level course; or Urb Std 250(P).

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics.|May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

450 Urban Growth and Development: A Global View. 3 cr. U/G. Urban growth and development from an international perspective.|Prereq: jr st or cons instr.

489 Internship in Urban Studies, Upper Division. 1-6 cr. U. Application of advanced principles of urban studies in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above course in Urb Std or related area; 2.5 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.|Prereq: jr st; acceptance for Study Abroad Prog, contact CIE Overseas Programs, PER 166, 229-5182.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

600 Capstone Seminar in Urban Studies. 3 cr. U. Seminar on concepts, methods, and approaches to field of Urban Studies; readings and discussions on urban scholarship; students produce research proposals tailored to their interests.|Prereq: sr st; declared Urb Std major.

625 Law and Urban Poverty. 3 cr. U/G. Examination of the relationship between law and poverty, with emphasis upon federal legislative attempts in specific problem areas to alleviate the condition of poverty.|Prereq: jr st; cons instr.

639 Health Care and Public Policy in the United States. 3 cr. U/G. Health care policies in the United States.|Prereq: jr st or cons instr.

699 Independent Reading. 3 cr. U. Advanced readings and study in Urban Studies.|May be retaken w/chg in topic. Prereq: jr st; 2.5 gpa; cons instr, dept chair, & asst dean for SAS.

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WGS Women's and Gender Studies

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150 Multicultural America. 3 cr. U. Cross-cultural and interdisciplinary study of U.S. ethnic and racial identities and experiences, with special attention paid to women's and gender issues.|Cultures and Communities Prog course; req'd service learning component. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work supervised by Women's Studies faculty or staff member. Written proposal required prior to registration. For additional information, consult Wmns Stds prog asst dir.|May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, Women's & Gender Studies prog dir & asst dean for SAS.

200 Introduction to Women's and Gender Studies: A Social Science Perspective. 3 cr. U. An interdisciplinary course with focus on social science approaches to the situation of women.|May not be taken for cr if WGS(Wmns) 201 or L&S-Hum 201 is also taken. Prereq: none.

201 Introduction to Women's and Gender Studies: A Humanities Perspective. 3 cr. U. An interdisciplinary course with focus on humanities approaches to the situation of women.|May not be taken for cr if WGS(Wmns) 200 or L&S SS 200 is also taken. Prereq: none.

211 Foundations of Women's and Gender Studies Writing and Research. 3 cr. U. Introductory exploration of the meaning and practice of feminist research, with an emphasis on critical reading, writing, and analytical skills.|Counts as repeat of Wgs (Wmns) 290 w/same topic. Prereq: WGS(Wmns) 200(P) or 201(P).

290 Selected Topics in Women's and Gender Studies: (Subtitled). 3 cr. U. Selected women's and gender studies issues and topics, limited to undergraduates.|Specific topics and add'l prereqs announced in Schedule of Classes each time course is offered. May be retaken w/chg in topic to 9 cr max. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. | May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

300 Gender and Spirituality: (Subtitled). 3 cr. U. Ways in which gender informs spiritual teachings and practices globally and historically; relationship between spiritual beliefs and the constructions of social, cultural, and political realities. | May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

301 Queer Theory. 3 cr. U. Queer theory and its contributions to the study of gender and sexuality. | Prereq: jr st.

302 Gendered Bodies: (Subtitled). 3 cr. U. Feminist interdisciplinary approach to the human body; its life changes as socially constructed and conditioned by cultural ideas and practices of gender and other differences. | May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

303 Feminist Activism and Movements: (Subtitled). 3 cr. U. Feminist activism and women's social and political movements in a global and historical context. | May be retaken w/chg in topic to 6 cr max. Prereq: jr st.

380 Honors Seminar in the Social Sciences: (Subtitled). 3H cr. U. Selected topics in women's studies from a social science perspective. | May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

381 Honors Seminar in the Humanities: 3H cr. U. Selected topics in women's studies from a humanities perspective. | May be retaken w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

401 Global Feminisms. 3 cr. U/G. Interdisciplinary study of women and gender in international perspective, including topics such as work, religion, ideology, and UN conferences. | Prereq: jr st & WGS(Wmns) 200(P) or 201(P); or grad st.

402 Capstone Seminar in Women's and Gender Studies: 3 cr. U. Capstone course for women's and gender studies majors and certificate students, focusing on student research on various topics pertaining to women such as 'Gender and Power.' | May not be retaken for cr. Prereq: sr st; 6 cr in women's and gender studies, including WGS(Wmns) 200(P) or 201(P).

410 Feminist Theory. 3 cr. U/G. Interdisciplinary survey of theories that shape and inform women's studies and feminist scholarship. | Prereq: jr st; WGS(Wmns) 200(P) or 201(P); or grad st.

411 Women's and Gender Studies Research Methods: (Subtitled). 3 cr. U/G. Interdisciplinary course with focus on women's and gender studies research methods, explored through selected topics such as 'Gendered Bodies.' | May not be retaken for cr. Prereq: jr st, WGS(Wmns) 200(P) or 201(P), & WGS(Wmns) 410(P) or equiv; or grad st.

489 Internship in Women's and Gender Studies. 1-3 cr. U. Application of advanced principles of Women's and Gender Studies in an appropriate organizational, educational, business, or political setting. | One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max. Prereq: jr st; WGS(Wmns) 200(P), 201(P), 500(P), or 501(P); 2.50 gpa & cons Women's and Gender Studies Prog dir.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg

in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Advanced Social Science Seminar in Women's and Gender Studies: (Subtitled). 3 cr. U/G. Theoretical foundations of feminist research and exploration of the tools, methodology and analytical skills employed in interdisciplinary women's and gender studies scholarship. May be retaken w/chg in topic to 9 cr combined max for WGS(Wmns) 500 & 501. Prereq: jr st; 6 cr in women's and gender studies.

501 Advanced Humanities Seminar in Women's and Gender Studies: (Subtitled). 3 cr. U/G. Theoretical foundations of feminist research and exploration of the tools, methodology, and analytical skills employed in interdisciplinary women's and gender studies scholarship. May be retaken w/chg in topic to combined max of 9 cr for WGS(Wmns) 500 & 501. Prereq: jr st; 6 cr in women's and gender studies.

535 Philosophical Topics in Feminist Theory: (Subtitled). 3 cr. U/G. Study of selected feminist theorists with an emphasis on past or contemporary thinkers. Attention will be paid to the philosophical importance of the problems raised. May be retaken w/chg in topic to a 6 cr max. Philos 535 & WGS(Wmns) 535 are jointly offered; with same topic, they count as repeats of one another. Prereq: jr st; a course in philos or women's and gender stds.

599 Topics in Women's and Gender Studies: (Subtitled). 1-3 cr. U/G. Specific topics, cr, and add'l prereqs announced in Schedule of Classes each time course is offered. May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

699 Independent Reading. 1-3 cr. U. Advanced independent work under supervision of a Wmns Stds faculty or instructional academic staff member. Students must submit study proposal. For more information, consult Wmns Stds Prog asst dir. May be retaken for cr. Prereq: jr st; 2.5 GPA; writ cons instr, Womens & Gender Studies Prog dir & asst dean for SAS.

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AIS American Indian Studies

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101 Introduction to American Indian Studies. 3 cr. U. Indigenous experience in the land now called U.S.A.; colonization, tradition and spirituality, indigenoussness and sovereignty; current issues, e.g., language preservation, treaty rights, social justice. Theoretical approaches.|Prereq: none.

105 Anishinaabe Ethnobotany: Plants in Anishinaabe Culture. 3 cr. U. Anishinaabe botanical knowledge as it relates to Anishinaabe culture.|No cr for students who have cr in Bio Sci 105. Prereq: none.

106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy. 3 cr. U. Anishinaabe philosophical and religious beliefs incorporating botanical knowledge.|AIS 106 & ReligSt 106 are jointly offered; they count as repeats of one another. Prereq: none.

151 First-Semester Anishinaabemowin (Ojibwe). 4 cr. U. First-semester speaking, listening, and writing skills in Anishinaabemowin (Ojibwe), the language of the Great Lakes Three Fires Confederacy and current Ojibwe, Odawa, and Potawatomi nations.|Counts toward L&S Language Requirement and Foreign Language GER. Satisfies Cultural Diversity GER. Prereq: none.

152 Second-Semester Anishinaabemowin (Ojibwe). 4 cr. U. Second-semester speaking and listening skills in Ojibwe; continued study of the culture of native Ojibwe speakers.|Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER. Prereq: AIS 151 or level 2 placement. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 3 cr. U. Independent work supervised by a member of the AIS Program instructional staff.|Retakable w/chg in topic to 6 cr max. Prereq: 2.5 GPA; writ cons instr, prog coord, & asst dean for SAS.

203 Western Great Lakes American Indian Community Life of the Past. 3 cr. U. Study of western Great Lakes

American Indian community life of the past, with an emphasis on pre-European conditions, social organizations, value systems, family life, ceremonial life.|Counts as a repeat of Ethnic 203. Prereq: none.

225 The Aztec Empire. 3 cr. U. Formation and expansion of the Aztec empire; description and analysis of Aztec culture, with an emphasis on archaeological and ethnohistoric perspectives.|AIS 225 & Anthro 225 are jointly offered; they count as repeats of one another. Prereq: none.

251 Third Semester Anishinaabemowin (Ojibwe). 4 cr. U. Third-semester speaking, listening and writing skills in Anishinaabemowin, the language of the Great Lakes Three Fires Confederacy and current Ojibwe, Odawa and Potawatomi nations.|Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER. Prereq: AIS 152 or level 3 placement. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

252 Fourth Semester Anishinaabemowin (Ojibwe). 4 cr. U. Fourth-semester speaking, listening and writing skills in Anishinaabemowin the language of the Great Lakes Three Fires Confederacy and current Ojibwe, Odawa and Potawatomi nations.|Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER. Prereq: AIS 251 or level 4 placement. Generates L&S credit for demonstrated equivalent preparation (12retro cr)..

262 North American Indian History to 1887. 3 cr. U. A survey of Native American history from aboriginal times to 1887. Emphasis will be placed on American policies and change within Indian societies.|AIS 262 & Hist 262 are jointly offered; they count as repeats of one another. Prereq: none.

263 North American Indian History Since 1887. 3 cr. U. A survey of American Indian history since 1887 with emphasis on federal policies and changing Indian societies in the twentieth century.|AIS 263 & Hist 263 are jointly offered; they count as repeats of one another. Prereq: none.

276 Introduction to American Indian Literature: (Subtitled). 3 cr. U. Literature of the American Indian, focusing on major forms, prominent themes, or a particular tribe of time period.|AIS 276 & English 276 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

289 Internship in American Indian Studies, Lower Division: (Subtitled). 1-6 cr. U. Application of basic principles of American Indian Studies in a business, organizational, educational, political, or other appropriate settings.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: AIS 101(P); 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship, Lower Division. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

308 Archaeology of North America. 3 cr. U/G. Main pre-Columbian cultures on the North American continent, north of Mexico.|AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 103(P) or cons instr.

310 Archaeology of Middle America. 3 cr. U/G. Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.|AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 103(P) or cons instr.

311 The World of the Ancient Maya. 3 cr. U/G. Historical development of ancient Maya civilization from its origins to the Spanish Conquest. |AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 103(P) or cons instr.

314 American Indian Societies and Cultures. 3 cr. U/G. Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy. |AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).

320 Social Change in American Indian Societies. 3 cr. U. American Indian societal change studied from a combination of theoretical perspectives: examination of the variation in American Indian responses to Western political and economic impacts. |AIS 320 & Sociology 320 are jointly offered; they count as repeats of one another. Prereq: jr st; any Sociol 100-level course or Sociol 224(P).

321 Contemporary Issues of the American Indian. 3 cr. U. Development of the institutional structure of American Indian affairs; current economic and social problems, contemporary manifestations of American Indian spirit, e.g., activism and cultural experiences. |AIS 321 & Sociol 321 are jointly offered; they count as repeats of one another. Prereq: jr st; any Sociol 100 level course or Sociol 224(P).

360 Ezhi-Kinomaageying: Anishinaabe Curriculum. 3 cr. U. Hist of Anishinaabe language instruction, including impact of social and political movements and conternporary trends. Review and creation of effective instructional methods for teaching Anishinaabemowin. |Generates L&S credit for demonstrated equivalent preparation (16 retro cr). Prereq: AIS 252(P) or cons instr.

362 System Failure: Globalization and Language Extinction. 3 cr. U/G. Role of globalization in the projected extinction of a large number of the world's languages within the next century. |AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another. Prereq: jr st; a course in social science; a course in linguistic anthro; or cons instr.

370 Anishinaabebiige: Archival to Contemporary Writing. 3 cr. U. Introduction to researching, reading, and creating archival material for proficient speakers of Anishinaabemowin. |Generates L&S credit for demonstrated equivalent preparation (16 retro crs). Prereq: AIS 252(P) or cons instr.

372 Survey of American Indian Literature. 3 cr. U. A general, representative study of the literature of the American Indian. |AIS 372 & English 372 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition Competency req.

473 History of Wisconsin Indians. 3 cr. U/G. History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars. |AIS 473 & Hist 473 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of English Composition competency req.

474 Topics in North American Indian History: (Subtitled). 3 cr. U/G. Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles. |Retakable w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

475 American Indian History, Law, and Government. 3 cr. U/G. American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship. |No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

489 Internship in American Indian Studies, Upper Division. 1-6 cr. U. Application of advanced principles of American Indian Studies in a business, organizational, educational, political, or other appropriate setting. |One cr earned

for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 2.25 gpa; cons supervising faculty member.

496 UROP Apprenticeship, Upper Division. 1-3 cr. U. Advanced-level undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

520 Studies in American Indian Literature: (Subtitled). 3 cr. U. Critical study of themes, figures, aspects, trends, etc., in American Indian Literature. | AIS 520 & English 520 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

525 American Indian Literature, Culture, and Creative Arts. 3 cr. U/G. Critical methods in understanding indigenous literature, cultures, and creative arts; uses of arts in indigenous cultures; how arts influence people's views of indigenous peoples. | AIS 525 & English 525 are jointly offered; they count as repeats of one another. Prereq: jr st; completion of GER English Composition competency req.

600 Field Project - Capstone Research or Applied Project. 3 cr. U. Research or applied project on area of student's interest under supervision of AIS faculty member. Formal field project paper required. | Prereq: jr st; declared AIS major.

632 Seminar in American Indian Literature: (Subtitled). 3 cr. U/G. Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian. | AIS 632 & English 632 are jointly offered; w/same topic they count as repeats of one another. Retakable w/chg in topic of 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.

699 Advanced Independent Study. 3 cr. U. Advanced independent work under the supervision of an AIS Program instructional staff member. | Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; cons supervising instr, prog coord, & asst dean for SAS..

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APC Applied Computing

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300 Programming 1. 3 cr. U. Introduction to history of computing, fundamental computer concepts and structured programming techniques.|Prereq: none.

310 Math for Computer Science. 3 cr. U. Important foundational topics in computer science.|Prereq: none.

320 Introduction to Business. 3 cr. U. Introduction to the major functional areas of business including the roles of accounting, finance, human resources, marketing, information systems, and operations in the organization.|Prereq: none.

330 Technical and Professional Communication. 3 cr. U. Technical and professional communication skills and techniques. Practice in creating effective memos and reports, developing technical material, delivering presentations, and developing communication within teams.|Prereq: none.

340 Legal and Ethical Responsibilities of the IT Professional. 3 cr. U. Legal, regulatory, ethical and compliance issues associated with developing software and using information systems in an organization.|Prereq: admis to BS-APC prog; APC 320(P).

350 Programming 2. 3 cr. U. Continuation of fundamental computer concepts and Programming.|Prereq: APC 300(P); 310(P).

360 Database Management 1. 3 cr. U. Design and implementation of relational database management systems to support computer-based information systems.|Prereq: admis to BS-APC prog; APC 300(P); 310(P).

370 System Analysis and Design. 3 cr. U. The five phases of Systems Development Life Cycle: scope definition, problem analysis, requirements analysis, logical design and decision analysis.|Prereq: admis to BS-APC prog; APC 300(P); 320(P); 330(P).

380 Project Management Techniques. 3 cr. U. An introduction to project management techniques including project selection and life cycle, stakeholder/scopequality/procurement management, budget control, scheduling, risk identification.|Prereq: admis to BS-APC prog; APC 370(P).

390 Object Oriented Programming. 3 cr. U. An introduction to Object-Oriented Programming techniques using the Java programming language.|Prereq: APC 350(P)

400 Applied Communication Networks. 3 cr. U. Fundamental concepts in the design, configuration, and problem solving of computer networks.|Prereq: admis to BS-APC prog; APC 350(P).

410 Database Management 2. 3 cr. U. Architecture and use-cases of non-relational (NoSQL) based on four types of databases including document, Graph, Key-value, and wide column store.|Prereq: admis to BS-APC prog; APC 360(P).

420 Computer Security 1. 3 cr. U. Security and risk management, security engineering, identity and access management, and security operations.|Prereq: APC 350(P).

430 (effective 09/04/2018) Applied Data Structures and Algorithms. 3 cr. U. Concepts and the application of data structures and algorithms.|Prereq: APC 390(P).

440 Web Development. 3 cr. U. Creating advanced and interactive websites web sites using technologies like HTML 5, CSS, JavaScript, Bootstrap, XML, web services, and database integration within the ASP.Net platform.|Prereq: APC 360(P); 400(P).

450 Operating Systems Theory and Practice. 3 cr. U. An introduction to important operating systems concepts such as processes, threads, scheduling, concurrency control and memory management.|Prereq: admis to BS-APC prog; APC 430(C).

460 (effective 05/20/2019) Software Engineering. 3 cr. U. Basic software development methodologies and tools, including the waterfall, iterative, and agile approaches.|Prereq: APC 370(P); 390(P).

470 IS Strategy and Management. 3 cr. U. Organizational/IS strategy using a capability maturity model for topics such as budgeting, acquisition, service/change/personnel management.|Prereq: admis to BS-APC prog; APC 380(P); 460(C).

480 Computer Security 2. 3 cr. U. Communication and network security, security assessment and testing, software development security, and asset security.|Prereq: APC 360(P); 400(P); 420(P); 450(P).

490 Capstone Project Preparation. 1 cr. U. Student capstone project and creation of initial plan with specific deliverables identified.|Prereq: admis to BS-APC prog; APC 460(C).

495 Capstone Project. 3 cr. U. Development, management and delivery of an applied computer science project for a client, including communication of project requirements and status to a non-technical audience.|Prereq: admis to BS-APC prog; APC 490(P).

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BME Biomedical Engineering

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101 Fundamentals of Biomedical Engineering. 3 cr. U. A system approach to physiology, cell physiology and transport, major organ systems, cardiovascular system, biomedical signal processing, biomechanics, biomedical engineering design. | Prereq: Math 221(C) or Math 231(C).

302 (effective 09/04/2018) Analysis and Modeling of Dynamic Systems. 4 cr. U. Modeling and analysis of mechanical, electrical, electromechanical, fluid, and physiological systems; laboratory experiments. | Jointly offered with & counts as repeat of MechEng 302. Prereq: MechEng 101(P), ElecEng 234(P), and Physics 210(P).

305 (effective 09/04/2018) Introduction to Engineering Biomechanics. 3 cr. U. Introduction to engineering biomechanics principles applied to the musculoskeletal system and human body for analysis of human movement. | Prereq: BioSci 203(P) & BME 302/MechEng302(P).

320 (effective 01/22/2019) Engineering of Biomedical Devices I. 4 cr. U. Physiological and biomechatronic systems, sensors and actuators, signal processing, hearing aid and implants. Laboratory experiments sessions included. | Prereq: jr st, BME 101(P) and BME 302(P) or BME 101(P) and MECHENG 302(P).

320 Engineering of Biomedical Devices I. 3 cr. U. Physiological and biomechatronic systems, sensors and actuators, signal processing, hearing aid and implants. | Prereq: jr st, BME 101(P), ElecEng 234(P), MechEng 101(C), Physics 210(P).

325 Engineering of Biomedical Devices II. 3 cr. U. Feedback and control systems, visual prostheses, heart assist and replacement devices, respiratory aids, active and passive prosthetic limbs. | Prereq: jr st, Bio Sci 203(P), BME 320(P).

385 Introduction to Biomaterials. 3 cr. U. Introduction to the fundamentals of biomaterials including ceramics, metals, and polymers. Important issues in the selection, design, manufacturing, and evaluation of biomaterials. Current applications, and emerging technologies. | Jointly offered with & counts as repeat of MatlEng 385. Prereq: jr st, MatlEng 201(P).

495 Biomedical Instrumentation Laboratory. 3 cr. U. Characteristics of measurement systems, experiment planning, sensor and system calibration, measurement of basic quantities, first and second order systems, data acquisition and processing, experimental projects. | BME 495 and MechEng 495 are jointly offered and count as repeats of one another. Prereq: BME 325 (P), MechEng 469 (C).

585 Advanced Biomaterials. 3 cr. U/G. Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering. Jointly offered with & counts as repeat of MatlEng 585. Prereq: sr st; MatlEng 385(P) or BME 385(P); or cons instr.

595 Capstone Design Project. 4 cr. U. Introduction to design process and ethics; Students work in teams to plan, design, and test in a simulated real-world environment; formal oral and written reports. Prereq: sr st; BME 495(P).

599 Senior Thesis. 1-3 cr. U. Independent research under the direction of a faculty member; submission of a written thesis required. 3 cr total required. May be retaken to max of 3 cr. Prereq: sr st & cons instr.

690 Topics in Biomedical Engineering: (Subtitled). 3 cr. U/G. Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered. May be retaken w/chg in topic to max of 9 cr. Prereq: jr st.

699 Independent Study. 1-3 cr. U. In consultation with a faculty advisor, student will develop the study plan on a topic related to biomedical engineering. May be retaken to 6 cr max. Prereq: jr st; cons instr & CEAS Associate Dean.

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CELTIC Celtic Studies

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103 (Linguis 181) First Semester Gaelic. 3 cr. U. Beginning Gaelic for students with no previous knowledge of the language. Counts as repeat of Linguis 131 with 'First Semester Gaelic' subtitle.|Prereq: none.

104 (Linguis 182) Second Semester Gaelic. 3 cr. U. Continuation of Celtic 103(Linguis 181).|Counts as repeat of Linguis 132 with 'Second Semester Gaelic' subtitle. Prereq: Celtic 103(Linguis 181)(P).

133 (Ethnic 133) Celtic Crossings: Overview of the History and Cultures of the Celtic World. 3 cr. U. Interdisciplinary exploration of the archaeology, history, literature, language, myth, and arts of the Celtic peoples (Cornish, Irish, Scots, Welsh, Manx, Breton, & Galician).|Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work supervised by Celtic Studies faculty or staff member. Written course proposal required prior to reg. For additional information, consult prog coord.|Retakable w/chg in topic to 9 cr max. Prereq: 2.50 gpa on at least 12 graded cr; writ cons instr & prog coord.

203 (Linguis 231) Third Semester Gaelic. 3 cr. U. Continuation of Celtic 104 (Linguis 182).|Counts as repeat of Linguis 231 with 'Irish (Gaelic)' subtitle. Prereq: Celtic 104(Linguis 182)(P).

204 (Linguis 282) Fourth Semester Gaelic. 3 cr. U. Continuation of Celtic 203(Linguis 281).|Counts as repeat of Linguis 232 with 'Irish (Gaelic)' subtitle. Prereq: Celtic 203(Linguis 281)(P).

250 Selected Topics in Celtic Studies: (Subtitled). 3 cr. U. Focus on an individual Celtic group or one particular aspect of Celtic culture.|Not open to students with cr in Ethnic 250 with similar topic. Retakable w/chg in topic to 9 cr max. Prereq: none.

285 Modern Irish Language and Literature in Translation. 3 cr. U. Major works of literature written in Irish Gaelic, eighth century to present day, in bilingual (Irish/English) texts. Celtic 285 & English 285 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

289 Internship in Celtic Studies, Lower Division. 1-6 cr. U. Application of basic principles of Celtic studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: intro course in Celtic stds; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

350 Advanced Topics in Celtic Studies: (Subtitled). 3 cr. U. Focus on an individual Celtic group or one particular aspect of Celtic culture. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

489 Internship in Celtic Studies, Upper Division. 1-6 cr. U. Application of basic principles of Celtic studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Celtic stds; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topics.

699 Advanced Independent Study. 1-3 cr. U. Independent work supervised by Celtic Stds faculty or staff member. Writ course proposal req'd prior to reg. For add'l info, consult prog coord. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, prog coord, & asst dean for SAS.

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CHINESE Chinese

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101 First Semester Chinese. 5 cr. U. Beginning Chinese for students with no previous knowledge of the language.|Prereq: none.

102 Second Semester Chinese. 5 cr. U. Continuation of Chinese 101(Linguis 121).|Prereq: Chinese 101(Linguis 121) (NP). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

150 Contemporary Chinese Society and Culture. 3 cr. U. Economics, politics, society, people, culture, and the environment in contemporary Chinese life. Representation, interpretations, and practices of Chinese cultures, traditions, and customs.|In English. Prereq: none.

160 A Taste of China: Learning Chinese Culture and Society through Cuisine. 3 cr. U. Cultural, historical, geographical, and sociological influences on Chinese cuisine.|Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level.|May be retaken w/chg in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

200 Chinese Calligraphy. 3 cr. U. History, development, aesthetics, and appreciation of Chinese calligraphy; in-class, hands-on practice in producing calligraphy; aspects of the fascinating cultural heritage of China.|Prereq: none.

201 Third Semester Chinese. 5 cr. U. Continuation of Chinese 102(Linguis 122).|Prereq: Chinese 102(Linguis 122) (NP) or equiv.Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

202 Fourth Semester Chinese. 5 cr. U. Continuation of Chinese 201(Linguis 221).|Prereq: Chinese 201(Linguis 221) (NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).

277 Chinese Discussion Section: (Subtitled). 1 or 2 cr. U. Discussion in Chinese, designed to broaden perspectives, improve language skills. Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc).|May be retaken w/chg in topic to 6 cr max. Prereq: Chinese 202(Linguis 223)(P) or cons instr.

289 Internship in Chinese, Lower Division. 1-6 cr. U. Application of basic principles of Chinese in business, organizational, educational, political, or other appropriate setting.|May be retaken to 6 cr max. Prereq: 2.50 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Fifth Semester Chinese. 4 cr. U. Continuation of Chinese 202(Linguis 223).|Prereq: Chinese 202(Linguis 223)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

302 Sixth Semester Chinese. 4 cr. U. Continuation of Chinese 301(Linguis 321).|Prereq: Chinese 301(Linguis 321)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

320 Contemporary Chinese Societies through Film. 3 cr. U. Film as a context for examining issues in contemporary societies of China and Taiwan; emphasis on development of language proficiency.|Prereq: Chinese 202(P) or equiv.

330 Chinese Language and Culture. 3 cr. U. Chinese language and contemporary culture through various forms of media.|Prereq: Chinese 202(P).

343 Chinese Martial Arts Fiction. 3 cr. U. Martial arts genre fiction from various periods of Chinese history; analysis of the philosophical and societal factors that shaped the genre.|Prereq: jr st or cons instr; completion of OWC-A GER

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level.|May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

401 Seventh Semester Chinese. 3 cr. U. Continuation of Chinese 302(Linguis 322).|Prereq: Chinese 302(Linguis 322)(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

402 Eighth Semester Chinese. 3 cr. U. Continuation of Chinese 401.|Prereq: Chinese 401(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

441 Business Chinese. 3 cr. U. Chinese in cultural contexts of actual business situations; commonly-used commercial terms, phrases, sentence patterns, and cultural background.|Prereq: Chinese 302(Linguis 322)(P).

489 Internship in Chinese, Upper Division. 1-6 cr. U. Application of basic principles to Chinese in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Chinese studies faculty or academic staff member. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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DAC Digital Arts and Culture

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199 Independent Study. 1-3 cr. U. Independent work supervised by Digital Arts and Culture faculty or staff member. Written course proposal required prior to reg. For additional information, consult prog coord. |Retakable w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

289 Internship in Digital Arts and Culture, Lower Division. 1-6 cr. U. Application of basic principles of Digital Arts and Culture in business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: 2.5 gpa; cons supervising faculty member.

296 UROP Apprenticeship, Lower Division. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. |One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

489 Internship in Digital Arts and Culture, Upper Division. 1-6 cr. U. Application of advanced principles of Digital Arts and Culture in a business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 2.5 gpa; cons supervising faculty member.

496 UROP Apprenticeship, Upper Division. 1-3 cr. U. Advanced-level undergraduate research participation in a project developed with a supervising member of the faculty or staff. |One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

661 Digital Engagement Seminar. 3 cr. U/G. Production of a digital portfolio demonstrating achievement of DAC program learning goals. |Prereq: declared DAC major; completion of 12 cr approved DAC courses.

699 Advanced Independent Study. 1-3 cr. U. Independent work supervised by Digital Arts and Culture faculty or staff member. Writ course proposal req'd prior to reg. For add'l info, consult prog coord. |Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 gpa; writ cons instr, prog coord, & asst dean for SAS.

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DMI Diagnostic Imaging

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101 (effective 09/04/2018) Introduction to Medical Imaging. 1 cr. U. Introduction to Diagnostic Medical Imaging modalities with a special emphasis on Radiologic Technology and Diagnostic Medical Sonography. |Counts as repeat of BMS 290 with similar topic. Prereq: none.

306 (effective 05/21/2018) Imaging Procedures I. 5 cr. U. Radiographic anatomy and procedures related to upper and lower extremities, chest, abdomen, and barium studies. Pediatric imaging is discussed. |Prereq: jr st; BioMed Sci prog or cons instr.

307 (effective 05/21/2018) Seminar in Radiography I. 3 cr. U. Basic concepts of patient care, including consideration for the cultural, physical and psychological needs of the patient and family. |Prereq: jr st; BioMed Sci prog or cons instr.

308 (effective 05/21/2018) Imaging Procedures II. 5 cr. U. Radiographic anatomy and procedures for the bony thorax, vertebral column, and iodinated studies will be covered. Pediatric imaging for each procedure will be discussed. |Prereq: jr st; BioMed Sci prog or cons instr.

309 (effective 05/21/2018) Imaging Procedures III. 3 cr. U. Radiographic anatomy and procedures for the cranium and facial bones; pediatric imaging for each procedure will be discussed. |Prereq: none.

310 (effective 05/21/2018) Introduction to Sonography. 3 cr. U. Introduction to Diagnostic Medical Sonography with an overview of basic terminology, techniques, and equipment. |Prereq: jr st; BioMed Sci prog or cons instr.

311 (effective 05/21/2018) Abdominal Sonography-I. 3 cr. U. Anatomy, physiology, pathology, and pathophysiology of the abdominal vessels and organs as they relate to sonography. |Prereq: jr st in BioMed Sci prog or cons instr.

312 (effective 05/21/2018) Abdominal Sonography-II. 3 cr. U. Anatomy, physiology, pathology, and pathophysiology of the kidneys and abdominal organs as they relate to sonography. |Prereq: jr st BioMed Sci prog or cons instr.

313 (effective 05/21/2018) Sonography Clinical Education I. 3 cr. U. Introduction to sonography scanning and development of clinical skills. |Prereq: jr st in BioMed Sci prog or cons instr.

319 (effective 05/21/2018) Abdominal Sonography III. 2 cr. U. Anatomy, physiology, pathology, and pathophysiology of the male pelvis, intraoperative, and pediatric specialty exams as they relate to sonography. |Prereq: jr st in BioMed Sci prog or cons instr.

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- 320 (effective 05/21/2018) Obstetrics/Gynecology Sonography I. 3 cr. U.** Normal gross, relational and sonographic anatomy of the female pelvic region. Physiology and related laboratory and clinical findings for disease processes are discussed.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 321 (effective 05/21/2018) Obstetrics/Gynecology Sonography II. 3 cr. U.** Gravid uterus and fetal development. Gestational dating methods, embryology, and maternal and fetal anatomy.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 322 (effective 05/21/2018) Obstetrics/Gynecology Sonography III. 3 cr. U.** Fetal anomalies, disease processes, and pathologies. Various fetal and maternal pathologies explained in sonographic terms.|Prereq: jr st in Bio Med Sci prog or cons instr.
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- 323 (effective 05/21/2018) Sonographic Principles and Instrumentation. 3 cr. U.** Characteristics of sound and mechanism of sonographic image production and display. Potential biological effects. Safety and mathematical principles.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 324 (effective 05/21/2018) Sonography Clinical Education II. 3 cr. U.** Clinical practicum rotations including abdominal and OB/GYN imaging, and vascular technology.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 325 (effective 05/21/2018) Specialized Sonography. 2 cr. U.** Embryology, structure, physiology, and pathology of the thyroid, breast, and testicle. Normal and abnormal gross, cross-sectional, and relational sonographic anatomy.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 326 (effective 05/21/2018) Sonography Clinical Education III. 3 cr. U.** Clinical practicum rotations including abdominal and OB/GYN imaging, and vascular technology.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 327 (effective 05/21/2018) Foundations of Sonography I. 2 cr. U.** Initial introduction to diagnostic medical sonography with an overview of basic terminology, techniques, and equipment.|Prereq: jr st; BioMed Sci prog or cons instr.
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- 328 (effective 05/21/2018) Foundations of Sonography II. 1 cr. U.** Introduction to diagnostic medical sonography with an overview of basic techniques and equipment.|Prereq: DMI 327(P); jr st; BioMed Sci prog or cons instr.
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- 336 (effective 05/21/2018) Cardiovascular Principles I. 4 cr. U.** Introduction to cardiac physiology, mechanical events, left ventricle function indicators, timing of mitral and aortic flow, auscultation, phonocardiography, hemodynamics and Doppler applications of echocardiography.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 337 (effective 05/21/2018) Clinical Education I - Echocardiography. 3 cr. U.** Clinical practicum rotations including adult echocardiography.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 340 (effective 05/21/2018) Embryology of the Cardiovascular System. 2 cr. U.** Development and developmental anomalies of the cardiovascular system.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 341 (effective 05/21/2018) Adult Echocardiography - Valvular Pathology. 3 cr. U.** Introduction to cardiac pathology seen on echocardiograms in the adult population.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 342 (effective 05/21/2018) Clinical Education II - Echocardiography. 3 cr. U.** Clinical practicum rotations including adult and pediatric echocardiography.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 345 (effective 05/21/2018) Pediatric Echocardiography I. 3 cr. U.** Introduction to various types of congenital heart disease and pediatric cardiac procedures.|Prereq: jr st in BioMed Sci prog or cons instr.
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- 346 (effective 05/21/2018) Adult Echocardiography - Cardiomyopathies. 2 cr. U.** Cardiovascular disease and diagnostic cardiac procedures in the adult population.|Prereq: jr st in BioMed Sci prog or cons instr.

347 (effective 05/21/2018) Clinical Education III - Echocardiography. 3 cr. U. Clinical practicum which includes adult and pediatric echocardiography clinical rotations with focus on advanced adult competencies.|Prereq: jr st in BioMed Sci prog or cons instr.

350 (effective 05/21/2018) Introduction to Radiologic Science and Healthcare. 2 cr. U. Introduction to Radiologic Technology imaging principles and equipment. Basic concepts of patient care, emergency care, CPR, medical ethics, legal issues, and cultural diversity.|Prereq: jr st in BioMed Sci prog or cons instr.

351 (effective 05/21/2018) Radiation Protection. 2 cr. U. All aspects of radiation protection including radiation safety, detection, and measurement relevant to Radiologic Technology.|Prereq: jr st in BioMed Sci prog or cons instr.

352 (effective 05/21/2018) Human Structure & Function I. 2 cr. U. Structure and physiology of the human body as they relate to radiography of the respiratory, digestive and urinary systems, and skeletal anatomy.|Prereq: jr st in BioMed Sci prog or cons instr.

353 (effective 05/21/2018) Principles of Imaging I. 2 cr. U. Radiographic qualities and factors influencing those qualities. X-ray tube, beam restricting devices, exposure factors, and effects on scatter radiation.|Prereq: jr st in BioMed Sci prog or cons instr.

354 (effective 05/21/2018) Radiographic Procedures I. 3 cr. U. Introduction to radiographic positioning of the chest, upper extremities, urinary and digestive systems. Pharmacology of contrast media.|Prereq: jr st in BioMed Sci prog or cons instr.

355 (effective 05/21/2018) Radiography Clinical Education I. 3 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: jr st in BioMed Sci prog or cons instr.

360 (effective 05/21/2018) Radiation Biology. 2 cr. U. Effects of radiation from the cellular level to the entire human body. Long and short term somatic effects and genetic effects.|Prereq: jr st in BioMed Sci prog or cons instr.

361 (effective 05/21/2018) Human Structure & Function II. 2 cr. U. Structure and physiology of the human body as they relate to radiography of the digestive and urinary systems and skeletal anatomy.|Prereq: jr st in BioMed Sci prog or cons instr.

362 (effective 05/21/2018) Principles of Imaging II. 3 cr. U. Radiographic qualities and the factors influencing those qualities. Systems and chemicals used in radiographic processing. Film and processor sensitometry.|Prereq: jr st in BioMed Sci prog or cons instr.

363 (effective 05/21/2018) Radiographic Procedures II. 3 cr. U. Introduction to radiographic positioning for lower extremities, spine, and digestive system. Students learn to identify anatomy on radiographs and evaluate them for acceptability.|Prereq: jr st in BioMed Sci prog or cons instr.

364 (effective 05/21/2018) Radiography Clinical Education II. 3 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: jr st in BioMed Sci prog or cons instr.

370 (effective 05/21/2018) Human Structure & Function III. 1 cr. U. Anatomy and physiology of the human body as they relate to the radiography of the skull, facial bone, and circulatory system.|Prereq: jr st in BioMed Sci prog or cons instr.

371 (effective 05/21/2018) Radiographic Procedures III. 2 cr. U. Basic concepts of advanced imaging, special procedures, and supplementary imaging modalities.|Prereq: jr st in BioMed Sci prog or cons instr.

372 (effective 05/21/2018) Radiographic Clinical Education III. 4 cr. U. Clinical Education allows students to rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education. |Prereq: jr st in BioMed Sci prog or cons instr.

401 (effective 05/21/2018) Seminar in Radiography II. 2 cr. U. Evaluation of all aspects of the imaging system from processor to generator. |Prereq: jr st in BioMed Sci prog or cons instr.

402 (effective 05/21/2018) Introduction to MSK Sonography. 1 cr. U. Study of anatomy (to include anatomic variants), physiology, pathophysiology and the sonographic appearance of the musculoskeletal system as evaluated by diagnostic medical sonography. |Prereq: jr st in BioMed Sci prog or cons instr.

435 (effective 05/21/2018) Adult Echocardiography - Advanced Pathology. 3 cr. U. Cardiovascular pharmacology and the potential effects of cardiac medications on echocardiographic images. |Prereq: jr st in BioMed Sci prog or cons instr.

436 (effective 05/21/2018) Pediatric Echocardiography II. 3 cr. U. Advanced instruction in various types of congenital heart disease and pediatric echocardiography. |Prereq: jr st in BioMed Sci prog or cons instr.

437 (effective 05/21/2018) Stress Echocardiography. 3 cr. U. Indications, utility, limitations and technical procedures related to exercise stress echocardiography. |Prereq: jr st in BioMed Sci prog or cons instr.

438 (effective 05/21/2018) Clinical Education IV - Echocardiography. 3 cr. U. Clinical practicum rotations including advanced adult and pediatric imaging of the heart with focus on advanced pediatric competencies. |Prereq: jr st in BioMed Sci prog or cons instr.

439 (effective 05/21/2018) Clinical Education V - Echocardiography. 4 cr. U. Clinical practicum rotations including exercise and pharmacological stress, echocardiograms and transesophageal echocardiograms. |Prereq: jr st in BioMed Sci prog or cons instr.

440 (effective 05/21/2018) Clinical Education VI - Echocardiography. 3 cr. U. Clinical practicum including advanced imaging in echocardiography techniques. |Prereq: jr st in BioMed Sci prog or cons instr.

441 (effective 05/21/2018) Special Procedures in Echocardiography. 3 cr. U. Indications, utility, limitations and technical procedures related to transesophageal echocardiography. |Prereq: jr st in BioMed Sci prog or cons instr.

450 (effective 05/21/2018) Vascular Sonography I. 3 cr. U. Anatomy, physiology, pathology, and pathophysiology of the peripheral vascular subset of the cardiovascular system as it relates to sonography. |Prereq: jr st in BioMed Sci prog or cons instr.

451 (effective 05/21/2018) Vascular Sonography II. 3 cr. U. Anatomy, physiology, pathology, and pathophysiology of the cerebrovascular subset of the cardiovascular system as it relates to sonography. |Prereq: jr st in BioMed Sci prog or cons instr.

452 (effective 05/21/2018) Sonography Clinical Education IV. 3 cr. U. Clinical practicum including abdominal and OB/GYN imaging, and vascular technology. |Prereq: sr st in BioMed Sci prog or cons instr.

453 (effective 05/21/2018) Seminar in OB/GYN Sonography. 3 cr. U. The role of ultrasound in assisting with treatment as it relates to women's reproductive health and prenatal care. |Prereq: jr st in BioMed Sci prog or cons instr.

454 (effective 05/21/2018) Introduction to Fetal Echocardiography. 3 cr. U. Echocardiographic examination of the fetal heart including normal anatomy and congenital heart disease. |Prereq: jr st in BioMed Sci prog or cons instr.

455 (effective 05/21/2018) Vascular Sonography III. 3 cr. U. Doppler principles, spectral display, hemodynamics of abdominal, transplant organ, and penile vascular techniques; vascular statistics. |Prereq: sr st in BioMed Sci prog or cons instr.

instr.

457 (effective 05/21/2018) Sonography Clinical Education V. 4 cr. U. Clinical practicum including abdominal and OB/GYN imaging, and vascular technology. | Prereq: sr st in BioMed Sci prog or cons instr.

458 (effective 05/21/2018) Seminar in Advanced Medical Imaging. 3 cr. U. Comparison of normal and pathological anatomy cases combining diagnostic medical sonography, computed sonography and magnetic resonance imaging. | Prereq: jr st in BioMed Sci prog or cons instr.

460 (effective 05/21/2018) Professional Development in Sonography - Seminar. 3 cr. U. Current trends in health care and sonography. Federal regulations, Medicare, managed care, professional organizations, and certification exam preparation. | Prereq: sr st in BioMed Sci prog or cons instr.

461 (effective 05/21/2018) Sonography Clinical Education VI. 3 cr. U. Clinical practicum including abdominal and OB/GYN imaging, and vascular technology. | Prereq: sr st in BioMed Sci prog or cons instr.

463 (effective 05/21/2018) Seminar in Education and Management in Medical Imaging. 3 cr. U. Problem solving of management issues relating to diagnostic medical sonography and exploring educational strategies employed in ultrasound education. | Prereq: jr st in BioMed Sci prog or cons instr.

464 (effective 05/21/2018) Introduction to Neurosonography. 3 cr. U. Anatomy, physiology, pathology, pathophysiology and the sonographic appearance of the normal and abnormal fetal and neonatal brain. | Prereq: jr st in BioMed Sci prog or cons instr.

470 (effective 05/21/2018) Radiographic Physics I. 2 cr. U. Atomic and subatomic theories, electrical theory, interaction of x-rays with matter, production of radiation, equipment maintenance, x-ray circuits, tubes, and cooling charts. | Prereq: sr st in BioMed Sci prog or cons instr.

471 (effective 05/21/2018) Digital Imaging. 3 cr. U. Radiographic qualities and factors influencing those qualities. Principles of fluoroscopy, AEC, tomography, and other accessory equipment. | Prereq: sr st in BioMed Sci prog or cons instr.

473 (effective 05/21/2018) Imaging Procedures IV. 2 cr. U. Skull positioning advanced skills, special procedures, and supplementary imaging modalities. | Prereq: sr st in BioMed Sci prog or cons instr.

474 (effective 05/21/2018) Radiography Clinical Education IV. 3 cr. U. Students to rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education. | Prereq: sr st in BioMed Sci prog or cons instr.

475 (effective 05/21/2018) Radiographic Physics II. 2 cr. U. Current concepts in quality assurance. The physics of advanced modalities. The physics of radiobiology and radiation protection. | Prereq: sr st in BioMed Sci prog or cons instr.

477 (effective 05/21/2018) Cross Sectional Anatomy. 3 cr. U. Structure and physiology of the human body as it appears in cross section. Diagrams, CT, and MRI images are utilized. | Prereq: sr st in BioMed Sci prog or cons instr.

478 (effective 05/21/2018) Radiologic Pathology. 3 cr. U. Changes that occur in disease and injury and their applications to radiography. | Prereq: sr st in BioMed Sci prog or cons instr.

479 (effective 05/21/2018) Radiography Clinical Education V. 3 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education. | Prereq: sr st in BioMed Sci prog or cons instr.

482 (effective 05/21/2018) Radiography Clinical Internship I. 6 cr. U. 600 hours of clinical experience. The student

will begin surgical and evening rotations. | Prereq: jr st in BioMed Sci prog or cons instr.

483 (effective 05/21/2018) Radiography Clinical Internship II. 3 cr. U. Rotations through the Emergency Department, diagnostic area outpatient and orthopedic clinics, CT, MRI, and interventional radiology. | Prereq: jr st in BioMed Sci prog or cons instr.

484 (effective 05/21/2018) Radiography Clinical Internship IV. 1 cr. U. 70 hours of clinical practice. Opportunity to rotate through any area of interest in a variety of imaging modalities. | Prereq: jr st in BioMed Sci prog or cons instr.

485 (effective 05/21/2018) Professional Development in Radiography. 2 cr. U. Federal regulations and legislation as they relate to the health care profession and radiology. Preparation for the certification exam. | Prereq: sr st in BioMed Sci prog or cons instr.

486 (effective 05/21/2018) Radiography Clinical Education VI. 4 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education. | Prereq: sr st in BioMed Sci prog or cons instr.

489 Radiography Clinical Internship III. 4 cr. U. 400 hours of clinical practice. Opportunity to rotate through any area of interest in a variety of imaging modalities. | Counts as repeat of BMS 590 with similar topic. Prereq: jr st in BioMed Sci prog or cons instr.

496 (effective 05/21/2018) Professional Growth and Career Advancement in Diagnostic Imaging Professions. 3 cr. U. Exploration and discussion of volunteerism and leadership in professional associations, professional advocacy, emerging trends in certification, re-certification and career pathways related to career advancement. | Counts as repeat of BMS 590 w/ same topic. Prereq: admis to BMS major; or cons instr.

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FOODBEV Food & Beverage Studies

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101 Introduction to Food Studies. 3 cr. U. Ways in which food affects health; health 'crazes;' systems of food distribution and economics; ethical and environmental issues; food as a symbol for social distinction.|Prereq: none.

102 Taste: The Culture and Science of Fermentation. 3 cr. U. Fermentation as a cultural and scientific phenomenon; anthropological, historical, biological, chemical, and cultural aspects of fermentation process; roles of fermented foods and beverages in society.|Prereq: none.

199 Independent Study. 1-3 cr. U. Independent study under supervision of faculty or academic staff member. For further information, consult prog coordinator.|Retakable to 3 cr max. Prereq: 2.5 GPA; writ cons instr, prog coord, & asst dean for SAS.

289 Internship in Food Studies, Lower Division. 1-3 cr. U. Application of basic principles of food studies in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. Retakable to 3 cr max. Prereq: 2.50 gpa; cons supervising instr.

297 Study Abroad: (Subtitled). 1-6 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period.|Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in Food Studies, Upper Division. 1-3 cr. U. Application of basic principles of food studies in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. Retakable to 3 cr max. Prereq: jr st; 2.50 gpa; cons supervising instr.

497 Study Abroad: (Subtitled). 1-6 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period.|Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg

in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

699 Advanced Independent Study. 1-3 cr. U. Advanced-level independent study work under the supervision of a faculty or academic staff member. Retakable w/chg in topic to 3 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, prog coord, & asst dean for SAS.

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FRSHWTR Freshwater Sciences

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190 Topics in Freshwater Sciences: (Subtitled). 1-3 cr. U. Current issues in freshwater sciences for undergraduates. | May be retaken w/chg in topic to 9 cr max. Prereq: none, except as may be required for specific topics.

191 (effective 01/22/2019) Great Lakes Ecology. 3 cr. U. A select history of Great Lakes ecosystem change. | Counts as repeat of Frshwtr 190 with similar topic. Prereq: none.

461 Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. | CES 461, Frshwtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) or cons instr.

464 Chemical Hydrogeology. 3 cr. U/G. Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. Lec, lab. | Frshwtr 464 & Geo Sci 464 are jointly offered; they count as repeats of one another. Prereq: jr st; Chem 102(P)

496 UROP Apprenticeship, Upper-Level. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. | May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Undergraduate Research. 1-3 cr. U. Undergraduate research on faculty-supervised research projects. | May be retaken to 6 cr max. Prereq: jr st; cons instr.

502 Aquatic Ecosystem Dynamics. 3 cr. U/G. Interdisciplinary, quantitative approach to understanding large lake dynamic processes, including geological formation, hydrology, hydrodynamics, chemistry and the dynamics of plankton and fish communities. | Prereq: jr st; 1 sem calculus or algebra; 2 sem Physics, Chem, or Bio Sci; or cons instr.

504 Quantitative Freshwater Analysis. 3 cr. U/G. A fundamental set of tools for the quantitative analysis of environmental data sets, with an emphasis on the calculation of reservoirs, residence times and rates in aquatic systems. | Prereq: jr st; 1 sem calculus, Physics, Chem, & Bio Sci; or cons instr.

506 Environmental Health of Freshwater Ecosystems. 3 cr. U/G. The influences of human-induced environmental change on the health of freshwater ecosystems and humans who interact with these systems.|Prereq: jr st.

508 Aquatic Technologies. 3 cr. U/G. Interdisciplinary perspective on the function, application and development of technologies used in the aquatic sciences.|Prereq: jr st.

510 Economics, Policy and Management of Water. 3 cr. U/G. The impact of economics, policy and management decisions on our freshwater resources and how science and economics affect these decisions.|Prereq: jr st.

511 Ichthyology. 3 cr. U/G. The diverse biology of fishes focusing on behavioral, biomechanical, genetic, and physiological adaptations to diverse ecological systems.|Bio Sci 511 & Frshwtr 511 are jointly offered; they count as repeats of one another. Prereq: jr st; grade of C or better in Bio Sci 310(P); or cons instr.

512 Freshwater Sciences Practicum: (Subtitled). 2-4 cr. U/G. Diverse opportunities for practical, hands-on experience in the practice of freshwater science with emphasis on team work, problem solving, field work, and dissemination of results.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st, Frshwtr 502(P) & 504(P); or cons instr.

513 Field Experimentation and Analysis in Freshwater Sciences. 3 cr. U/G. Student acquisition of comprehensive investigative procedures in freshwater ecology focusing on field and laboratory interactive assignments.|Prereq: jr st; Bio Sci 152(P); Chem 104(P); or grad st.

514 Analytical Techniques in Freshwater Sciences. 3 cr. U/G. Modern analytical techniques and genomics principles and methods in freshwater sciences.|Counts as repeat of Frshwtr 650 w/same topic. Prereq: jr st; Bio Sci 152(P); Chem 104(P); or grad st.

522 Aquatic Organic Biogeochemistry. 3 cr. U/G. Fluxes and biogeochemical cycling pathways of dissolved, colloidal and particulate organic matter across interfaces in aquatic systems.|Prereq: jr st & 1 sem Chem; or cons instr.

524 Aquatic Isotope Biogeochemistry. 3 cr. U/G. Principles and applications of stable and radioactive isotopes and other biogeochemical tracers in aquatic environments.|Prereq: jr st.

525 Advanced Ecology of Aquatic and Terrestrial Ecosystems. 3 cr. U/G. Advanced ecological theory and its applications to aquatic and terrestrial ecosystems.| Prereq: jr st; a college-level course in General Ecology or equiv.

562 Principles of Aquaculture Systems. 3 cr. U/G. Physical and chemical aspects of intensive & recirculating operations of aquaculture production systems.|Prereq: jr st; BioSci 152 (P); Chem 104(P); Math 116(P).

563 Finfish Aquaculture and Nutrition Principles. 3 cr. U/G. Principles of aquaculture and fish nutrition; emphasis on Great Lakes; future challenges to aquaculture development in North America.|Prereq: jr st; Bio Sci 152(P); Chem 104(P).

564 Water Quality in Aquaculture. 3 cr. U/G. Principles of water chemistry & microbial conversion of nutrients; microorganisms that impact fish health; for successful operation of intensive aquaculture operations.|Prereq: jr st; Bio Sci 152(P); Chem 104(P).

565 Fish Health. 3 cr. U/G. Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.|Prereq: jr st; Bio Sci 152(P); Chem 104(P).

584 Aquatic Ecosystem Services Valuation. 3 cr. U/G. Economic theory and methods in valuing aquatic and related terrestrial ecosystems.|Counts as repeat of Frshwtr 650 with same topic. Prereq: jr st.

610 Freshwater Inland Seas. 3 cr. U/G. An oceanographic approach to the study of freshwater inland seas with regard to geology, hydrodynamics, climate, interactions with land, wetlands, streams, and biota interactions.|Prereq: jr st; one

upper-division natural science course.

611 Environmental Change and Freshwater Ecosystem Health. 3 cr. U/G. An integrated, holistic approach to the impacts of global climate change on freshwater ecosystems from the population to the molecular levels. |Prereq: jr st; one upper-division natural science course.

621 (Bio Sci 521) Benthic Ecology. 3 cr. U/G. Chemophysical and biological interactions in freshwater and marine systems. Emphasis on invertebrate ecology. 2 hrs lec, 4 hrs lab. |Req'd field work for which fee is assessed. Prereq: sr st & cons instr; or grad st.

650 Topics in Freshwater Sciences: (Subtitled). 1-3 cr. U/G. Current issues in freshwater sciences. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

690 Undergraduate Seminar in Freshwater Sciences: (Subtitled). 1-3 cr. U. Seminar on topics of current interest in freshwater sciences. |May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

695 Independent Study in Freshwater Sciences for Biological Sciences Students. 1-3 cr. U. Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist from the School of Freshwater Science. |Bio Sci 695 & Frshwtr 695 are jointly offered; w/ same subject, they count as repeats of one another. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course. Prereq: jr st; Bio Sci 325 (P); one of Bio Sci 310(P), 315(P)/316(P), or 383(P); 2.500 GPA; writ cons instr, dept chair

699 Independent Study for Undergraduates. 1-3 cr. U. Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member; requires approved study proposal. |May be retaken to 6 cr max. Prereq: jr st; cons instr.

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GLOBAL Global Studies

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101 Introduction to Global Studies I: People and Politics. 3 cr. U. Fundamental aspects of globalization; how economic, political, and cultural globalism affects contemporary societies.|Prereq: none.

190 Think Tank Learning Community I: (Subtitled). 1 cr. U. Integration of social, artistic, and cultural forces into global business, economics, politics etc; discussion of case studies with working professionals.|Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to sophs, jrs, or srs. Prereq: fr st only.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Selected topics announced in Schedule of Classes each time course is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program director.|Retakable to 6 cr max. Prereq: 2.5 GPA; writ cons instr, prog dir, & asst dean for SAS.

201 Introduction to Global Studies II: Economics and the Environment. 3 cr. U. Link between International trade and environmental change; conditions related to global economy; political impact of environmental change; human dimensions of international trade and environmental change.|Prereq: none.

202 Introduction to Global Studies III: Globalization and Technology. 3 cr. U. Globalization and information technology: history of and current trends in global transfer of technology; contemporary issues in information technology; media convergences and divisions.|Prereq: none.

289 Internship in Global Studies, Lower Division. 1-6 cr. U. Application of basic principles of global studies in a

business, organizational, educational, political, or other appropriate setting. |Min 40 hrs in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: Global 101(P); 2.25 gpa; cons supervising faculty member.

290 Think Tank Learning Community II: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. |Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, jrs, or srs. Prereq: soph st only.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

311 Contexts for Global Management. 3 cr. U. How globalization can impact the success or failure of business decisions; how business decisions can impact globalization; management in a global context. |Prereq: jr st.

321 The Global City in History. 3 cr. U. Key issues in history of the global city from Mesopotamia to the age of globalization; changing role of urban centers; global dimensions of Milwaukee's history. |Prereq: jr st.

351 Language, Media, and Social Practice in Global Communications. 3 cr. U. Explores the impact of global communications on languages and cultures; examines implications of globalization for technologically mediated forms of communication and related social practices. |Prereq: jr st.

361 Environment and Sustainability. 3 cr. U/G. Different answers to 'what is sustainability?' given by ecological and social thinkers. |Prereq: jr st.

362 System Failure: Globalization and Language Extinction. 3 cr. U/G. Role of globalization in the projected extinction of a large number of the world's languages within the next century. |AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another. Prereq: jr st; a course in social science; a course in linguistic anthro; or cons instr.

371 Rethinking Global Security. 3 cr. U. Basic concepts for international security in the age of globalization; sources of security and insecurity from a historical perspective. |Prereq: jr st.

390 Think Tank Learning Community III: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. |Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 290, 390, & 490. Not open for cr to fr, sophs, or srs. Prereq: jr st only.

421 Cities in the Global Economy. 3 cr. U. How and why globalization leaves different imprints on cities; how cities in turn constantly restructure the form of the global economy. |Prereq: jr st.

439 Culture and Global Health. 3 cr. U/G. Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease. |Anthro 439 & Global 439 are jointly offered; they count as repeats of one another. Prereq: jr st.

442 Humanitarianism in Global Perspective. 3 cr. U/G. Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking. |Anthro 442 & Global 442 are jointly offered; they count as repeats of one another. Prereq: jr st; a social science course (P).

443 Medicine and Pharmaceuticals in the Global Age. 3 cr. U/G. The practices of medicine and the distribution of pharmaceuticals globally. |Anthro 443 & Global 443 are jointly offered; they count as repeats of one another. Prereq: jr

st; Anthro 440(R).

446 The Re-Configuring Global Order. 3 cr. U/G. Contemporary and past global forces re-configuring our world systems and economic and political orders.|Prereq: jr st

447 The Global Politics of Human Rghts. 3 cr. U/G. Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.|Anthro 447 & Global 447 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).

448 Intellectual Property in the Global Information Economy. 3 cr. U/G. Emerging conflicts between the intellectual property rules and new information technologies; all aspects - copyright, patent, trademarks - in global contexts of biotechnology, software, print, digital media, and music industries.|Prereq: jr st.

451 Access, Security, and Intercultural Contexts in Global Communications. 3 cr. U. Information equity and access in a globalized context, including issues of security, intercultural communication, and current uses of communication technologies.|Prereq: jr st.

461 The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability.|CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) or cons instr.

471 Strategies for Realizing Security in Global Contexts. 3 cr. U. Present-day strategies of those working to create or effect greater security in a global context.|Prereq: jr st.

488 Elective Internship in Global Studies. 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.|Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa; cons supervising faculty member.

489 Internship in Global Studies, Upper Division. (Subtitled). 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.|Min 40 hours in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa, cons supervising faculty member.

490 Think Tank Learning Community IV: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals.|Retakable to 4 cr max w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, sophs, or jrs. Prereq: sr st only.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Global Studies Capstone Seminar: (Subtitled). 3 cr. U. Integration of coursework in the Global Studies curriculum. Majors enroll in designated section for their Global Studies track.|Not retakable. Prereq: jr st; declared global studies major; or cons instr.

541 (411) Cross-Cultural Management. 3 cr. U. Business cultures around the world; the impact of cultural differences in international management and negotiations.|Bus Adm 541 & Global 541(411) are jointly offered; they count as repeats of one another. Prereq: jr st; Bus Adm 330(P); admis to Bus Adm major or declared Global Studies program.

550 Global Studies Integrated Capstone: (Subtitled). 3 cr. U/G. Integration of coursework for students in the Global

Communications, Health, Security, Sustainability, and Urban Development tracks. |May be taken w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of OWC-A GER; declared Global Studies major or cons instr.

551 Global Communications Capstone: Future Trends. 3 cr. U. Global Studies-Global Communications capstone. Communication challenges that constitute & complicate global experiences; ways to respond in a manner that demonstrates competence as global communicators. |Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

561 Preparing for Sustainable Peacebuilding and Social Change. 3 cr. U/G. Analytical framework for understanding the key social dynamics that affect sustainable social change. |Prereq: jr st; Global 361(P) & 461(P), or cons instr.

571 Global Security Capstone: Future Trends. 3 cr. U. Global Studies-Global Security capstone. Examination of justice and power broadly defined as they pertain to emerging trends & efforts to address anticipated problems. |Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level. |Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level. |Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

699 Advanced Independent Study. 1-3 cr. U. See Independent Study in current catalog. For further information, consult Global Studies Coordinator. |Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

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GLOBAL Global Studies

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101 Introduction to Global Studies I: People and Politics. 3 cr. U. Fundamental aspects of globalization; how economic, political, and cultural globalism affects contemporary societies.|Prereq: none.

190 Think Tank Learning Community I: (Subtitled). 1 cr. U. Integration of social, artistic, and cultural forces into global business, economics, politics etc; discussion of case studies with working professionals.|Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to sophs, jrs, or srs. Prereq: fr st only.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Selected topics announced in Schedule of Classes each time course is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program director.|Retakable to 6 cr max. Prereq: 2.5 GPA; writ cons instr, prog dir, & asst dean for SAS.

201 Introduction to Global Studies II: Economics and the Environment. 3 cr. U. Link between International trade and environmental change; conditions related to global economy; political impact of environmental change; human dimensions of international trade and environmental change.|Prereq: none.

202 Introduction to Global Studies III: Globalization and Technology. 3 cr. U. Globalization and information technology: history of and current trends in global transfer of technology; contemporary issues in information technology; media convergences and divisions.|Prereq: none.

289 Internship in Global Studies, Lower Division. 1-6 cr. U. Application of basic principles of global studies in a

business, organizational, educational, political, or other appropriate setting. |Min 40 hrs in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: Global 101(P); 2.25 gpa; cons supervising faculty member.

290 Think Tank Learning Community II: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. |Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, jrs, or srs. Prereq: soph st only.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

311 Contexts for Global Management. 3 cr. U. How globalization can impact the success or failure of business decisions; how business decisions can impact globalization; management in a global context. |Prereq: jr st.

321 The Global City in History. 3 cr. U. Key issues in history of the global city from Mesopotamia to the age of globalization; changing role of urban centers; global dimensions of Milwaukee's history. |Prereq: jr st.

351 Language, Media, and Social Practice in Global Communications. 3 cr. U. Explores the impact of global communications on languages and cultures; examines implications of globalization for technologically mediated forms of communication and related social practices. |Prereq: jr st.

361 Environment and Sustainability. 3 cr. U/G. Different answers to 'what is sustainability?' given by ecological and social thinkers. |Prereq: jr st.

362 System Failure: Globalization and Language Extinction. 3 cr. U/G. Role of globalization in the projected extinction of a large number of the world's languages within the next century. |AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another. Prereq: jr st; a course in social science; a course in linguistic anthro; or cons instr.

371 Rethinking Global Security. 3 cr. U. Basic concepts for international security in the age of globalization; sources of security and insecurity from a historical perspective. |Prereq: jr st.

390 Think Tank Learning Community III: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. |Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 290, 390, & 490. Not open for cr to fr, sophs, or srs. Prereq: jr st only.

421 Cities in the Global Economy. 3 cr. U. How and why globalization leaves different imprints on cities; how cities in turn constantly restructure the form of the global economy. |Prereq: jr st.

439 Culture and Global Health. 3 cr. U/G. Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease. |Anthro 439 & Global 439 are jointly offered; they count as repeats of one another. Prereq: jr st.

442 Humanitarianism in Global Perspective. 3 cr. U/G. Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking. |Anthro 442 & Global 442 are jointly offered; they count as repeats of one another. Prereq: jr st; a social science course (P).

443 Medicine and Pharmaceuticals in the Global Age. 3 cr. U/G. The practices of medicine and the distribution of pharmaceuticals globally. |Anthro 443 & Global 443 are jointly offered; they count as repeats of one another. Prereq: jr

st; Anthro 440(R).

446 The Re-Configuring Global Order. 3 cr. U/G. Contemporary and past global forces re-configuring our world systems and economic and political orders.|Prereq: jr st

447 The Global Politics of Human Rghts. 3 cr. U/G. Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.|Anthro 447 & Global 447 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).

448 Intellectual Property in the Global Information Economy. 3 cr. U/G. Emerging conflicts between the intellectual property rules and new information technologies; all aspects - copyright, patent, trademarks - in global contexts of biotechnology, software, print, digital media, and music industries.|Prereq: jr st.

451 Access, Security, and Intercultural Contexts in Global Communications. 3 cr. U. Information equity and access in a globalized context, including issues of security, intercultural communication, and current uses of communication technologies.|Prereq: jr st.

461 The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability.|CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) or cons instr.

471 Strategies for Realizing Security in Global Contexts. 3 cr. U. Present-day strategies of those working to create or effect greater security in a global context.|Prereq: jr st.

488 Elective Internship in Global Studies. 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.|Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa; cons supervising faculty member.

489 Internship in Global Studies, Upper Division. (Subtitled). 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.|Min 40 hours in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa, cons supervising faculty member.

490 Think Tank Learning Community IV: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals.|Retakable to 4 cr max w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, sophs, or jrs. Prereq: sr st only.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Global Studies Capstone Seminar: (Subtitled). 3 cr. U. Integration of coursework in the Global Studies curriculum. Majors enroll in designated section for their Global Studies track.|Not retakable. Prereq: jr st; declared global studies major; or cons instr.

541 (411) Cross-Cultural Management. 3 cr. U. Business cultures around the world; the impact of cultural differences in international management and negotiations.|Bus Adm 541 & Global 541(411) are jointly offered; they count as repeats of one another. Prereq: jr st; Bus Adm 330(P); admis to Bus Adm major or declared Global Studies program.

550 Global Studies Integrated Capstone: (Subtitled). 3 cr. U/G. Integration of coursework for students in the Global

Communications, Health, Security, Sustainability, and Urban Development tracks. |May be taken w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of OWC-A GER; declared Global Studies major or cons instr.

551 Global Communications Capstone: Future Trends. 3 cr. U. Global Studies-Global Communications capstone. Communication challenges that constitute & complicate global experiences; ways to respond in a manner that demonstrates competence as global communicators. |Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

561 Preparing for Sustainable Peacebuilding and Social Change. 3 cr. U/G. Analytical framework for understanding the key social dynamics that affect sustainable social change. |Prereq: jr st; Global 361(P) & 461(P), or cons instr.

571 Global Security Capstone: Future Trends. 3 cr. U. Global Studies-Global Security capstone. Examination of justice and power broadly defined as they pertain to emerging trends & efforts to address anticipated problems. |Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level. |Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level. |Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

699 Advanced Independent Study. 1-3 cr. U. See Independent Study in current catalog. For further information, consult Global Studies Coordinator. |Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

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GLOBAL Global Studies

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101 Introduction to Global Studies I: People and Politics. 3 cr. U. Fundamental aspects of globalization; how economic, political, and cultural globalism affects contemporary societies.|Prereq: none.

190 Think Tank Learning Community I: (Subtitled). 1 cr. U. Integration of social, artistic, and cultural forces into global business, economics, politics etc; discussion of case studies with working professionals.|Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to sophs, jrs, or srs. Prereq: fr st only.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Selected topics announced in Schedule of Classes each time course is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program director.|Retakable to 6 cr max. Prereq: 2.5 GPA; writ cons instr, prog dir, & asst dean for SAS.

201 Introduction to Global Studies II: Economics and the Environment. 3 cr. U. Link between International trade and environmental change; conditions related to global economy; political impact of environmental change; human dimensions of international trade and environmental change.|Prereq: none.

202 Introduction to Global Studies III: Globalization and Technology. 3 cr. U. Globalization and information technology: history of and current trends in global transfer of technology; contemporary issues in information technology; media convergences and divisions.|Prereq: none.

289 Internship in Global Studies, Lower Division. 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting. |Min 40 hrs in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: Global 101(P); 2.25 gpa; cons supervising faculty member.

290 Think Tank Learning Community II: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. |Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, jrs, or srs. Prereq: soph st only.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. |Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

311 Contexts for Global Management. 3 cr. U. How globalization can impact the success or failure of business decisions; how business decisions can impact globalization; management in a global context. |Prereq: jr st.

321 The Global City in History. 3 cr. U. Key issues in history of the global city from Mesopotamia to the age of globalization; changing role of urban centers; global dimensions of Milwaukee's history. |Prereq: jr st.

351 Language, Media, and Social Practice in Global Communications. 3 cr. U. Explores the impact of global communications on languages and cultures; examines implications of globalization for technologically mediated forms of communication and related social practices. |Prereq: jr st.

361 Environment and Sustainability. 3 cr. U/G. Different answers to 'what is sustainability?' given by ecological and social thinkers. |Prereq: jr st.

362 System Failure: Globalization and Language Extinction. 3 cr. U/G. Role of globalization in the projected extinction of a large number of the world's languages within the next century. |AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another. Prereq: jr st; a course in social science; a course in linguistic anthro; or cons instr.

371 Rethinking Global Security. 3 cr. U. Basic concepts for international security in the age of globalization; sources of security and insecurity from a historical perspective. |Prereq: jr st.

390 Think Tank Learning Community III: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. |Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 290, 390, & 490. Not open for cr to fr, sophs, or srs. Prereq: jr st only.

421 Cities in the Global Economy. 3 cr. U. How and why globalization leaves different imprints on cities; how cities in turn constantly restructure the form of the global economy. |Prereq: jr st.

439 Culture and Global Health. 3 cr. U/G. Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease. |Anthro 439 & Global 439 are jointly offered; they count as repeats of one another. Prereq: jr st.

442 Humanitarianism in Global Perspective. 3 cr. U/G. Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking. |Anthro 442 & Global 442 are jointly offered; they count as repeats of one another. Prereq: jr st; a social science course (P).

443 Medicine and Pharmaceuticals in the Global Age. 3 cr. U/G. The practices of medicine and the distribution of

pharmaceuticals globally. | Anthro 443 & Global 443 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 440(R).

446 The Re-Configuring Global Order. 3 cr. U/G. Contemporary and past global forces re-configuring our world systems and economic and political orders. | Prereq: jr st

447 The Global Politics of Human Rghts. 3 cr. U/G. Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings. | Anthro 447 & Global 447 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).

448 Intellectual Property in the Global Information Economy. 3 cr. U/G. Emerging conflicts between the intellectual property rules and new information technologies; all aspects - copyright, patent, trademarks - in global contexts of biotechnology, software, print, digital media, and music industries. | Prereq: jr st.

451 Access, Security, and Intercultural Contexts in Global Communications. 3 cr. U. Information equity and access in a globalized context, including issues of security, intercultural communication, and current uses of communication technologies. | Prereq: jr st.

461 The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. | CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) or cons instr.

471 Strategies for Realizing Security in Global Contexts. 3 cr. U. Present-day strategies of those working to create or effect greater security in a global context. | Prereq: jr st.

488 Elective Internship in Global Studies. 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting. | Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa; cons supervising faculty member.

489 Internship in Global Studies, Upper Division. (Subtitled). 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting. | Min 40 hours in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa, cons supervising faculty member.

490 Think Tank Learning Community IV: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. | Retakable to 4 cr max w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, sophs, or jrs. Prereq: sr st only.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Global Studies Capstone Seminar: (Subtitled). 3 cr. U. Integration of coursework in the Global Studies curriculum. Majors enroll in designated section for their Global Studies track. | Not retakable. Prereq: jr st; declared global studies major; or cons instr.

541 (411) Cross-Cultural Management. 3 cr. U. Business cultures around the world; the impact of cultural differences in international management and negotiations. | Bus Adm 541 & Global 541(411) are jointly offered; they count as repeats of one another. Prereq: jr st; Bus Adm 330(P); admis to Bus Adm major or declared Global Studies program.

550 Global Studies Integrated Capstone: (Subtitled). 3 cr. U/G. Integration of coursework for students in the Global Communications, Health, Security, Sustainability, and Urban Development tracks. |May be taken w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of OWC-A GER; declared Global Studies major or cons instr.

551 Global Communications Capstone: Future Trends. 3 cr. U. Global Studies-Global Communications capstone. Communication challenges that constitute & complicate global experiences; ways to respond in a manner that demonstrates competence as global communicators. |Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

561 Preparing for Sustainable Peacebuilding and Social Change. 3 cr. U/G. Analytical framework for understanding the key social dynamics that affect sustainable social change. |Prereq: jr st; Global 361(P) & 461(P), or cons instr.

571 Global Security Capstone: Future Trends. 3 cr. U. Global Studies-Global Security capstone. Examination of justice and power broadly defined as they pertain to emerging trends & efforts to address anticipated problems. |Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level. |Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level. |Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

699 Advanced Independent Study. 1-3 cr. U. See Independent Study in current catalog. For further information, consult Global Studies Coordinator. |Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

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HMONG Hmong Studies

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105 First-Semester Hmong. 3 cr. U. Beginning Hmong for students with no previous knowledge of the language. |No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 105 & Linguis 105 are jointly offered; they count as repeats of one another. Prereq: none.

106 Second-Semester Hmong. 3 cr. U. Continuation of Hmong 105. |No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 106 & Linguis 106 are jointly offered; they count as repeats of one another. Prereq: Hmong 105/Linguis 105(P).

107 (FLL 107) First-Semester Hmong Literacy. 3 cr. U. Introduction to literacy skills in Hmong. Intended for speakers of Hmong. |Prereq: none.

108 (FLL 108) Second-Semester Hmong Literacy. 3 cr. U. Continuation of Hmong 107(FLL 107/Linguis 161). |Prereq: Hmong 107(FLL 107/Linguis 161)(P).

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. |Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study: (Subtitled). 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program director. Students must submit a study proposal. |Retakable to 6 cr max. Prereq: 2.5 GPA; writ cons instr, prog dir, & asst dean for SAS.

265 Hmong Americans: History, Culture, and Contemporary Life. 3 cr. U. Hmong American history, the effects of the Vietnam War on Hmong culture, and the history of the resulting refugee immigrants in America. |Ethnic 265 & Hmong 265 are jointly offered; they count as repeats of one another. Prereq: none.

289 Internship in Hmong Studies, Lower Division: (Subtitled). 1-6 cr. U. Application of basic principles of Hmong Studies in business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: 2.50 gpa, cons supervising faculty member.

296 UROP Apprenticeship: (Subtitled). 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only program dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in Hmong Studies, Upper Division. 1-6 cr. U. Application of basic principles of Hmong Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa, cons supervising faculty member.

496 Advanced UROP Apprenticeship: (Subtitled). 1-3 cr. U. Advanced undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior UROP apprenticeship or equiv rsrch experience.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only program dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

699 Advanced Independent Study: (Subtitled). 1-3 cr. U. Advanced level independent work under supervision of a Hmong Studies faculty or academic staff member. Students must submit a study proposal. Retakable w/chg in topic. Prereq: jr st; 2.50 GPA; cons supervising instr, program coord, & asst dean of SAS

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HS Health Sciences

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101 Introduction to Health and Disease. 2 cr. U. A survey of health promotion and disease prevention including fitness, nutrition, disease transmission, mental health, drug use, and other current health-related topics.|Prereq: none.

102 Healthcare Delivery in the United States. 3 cr. U. An introduction to healthcare delivery focusing on consumers, providers, organization, financing, quality and utilization of services, health planning, and political and governmental impacts.|Prereq: none.

105 Survey of the Health Professions. 3 cr. U. An introduction to health professions, their work settings and roles on the healthcare team. Other topics include: patient-professional communication, patient characteristics, medical terminology.|Counts as repeat of HS 105X. Prereq: none.

222 Language of Medicine. 3 cr. U. Medical terms used in oral and written communication; reviews terminology by body system with emphasis on application.|Prereq: none.

224 Computational Tools for Healthcare Professionals. 3 cr. U. Healthcare focused introduction to computational tools for information management, including system architecture, process and ethical concepts. Incorporates training in office application software.|Prereq: preprofessional or professional in Health Sciences or HCA minor or HCI cert.

250 Allied Health Information Methods. 2 cr. U. Techniques and processes used by allied health personnel to translate thought and behavior into an acceptable style and format for documentation of activities.|Prereq: soph st; grade of C or better in English 102(P) or score at level 4 on EPT.

251 Health Documentation. 1 cr. U. Appropriate health documentation techniques will be addressed including the medical; legal and reimbursement issues of patient assessment, problem identification, and patient care plans.|Prereq: none.

311 Law for Healthcare Consumers and Professionals. 3 cr. U. An introduction to the law as it relates to health care. Topics include contracts, torts, damages, negligence, malpractice, litigation and trial proceedings.|Prereq: jr st or cons instr.

620 Environmental Health. 3 cr. U/G. An overview of the field of environmental and occupational health is presented, including physical, chemical and biological hazards.|Prereq: jr st.

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JAPAN Japanese

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100 Introduction to Japanese Literature. 3 cr. U. Survey of Japanese literature from the Heian Period to the present day.|Prereq: none.

101 First Semester Japanese. 5 cr. U. Beginning Japanese for students with no previous knowledge of the language.|Prereq: none.

102 Second Semester Japanese. 5 cr. U. Continuation of Japan 101.|Prereq: grade of C- or better in Japan 101(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

110 Japanese Popular Culture. 3 cr. U. Elements of popular culture that have come to define modern-day Japan. In English.|Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level.|May be retaken w/chg in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

200 Japanese Culture and Its Effect on Language. 3 cr. U. Through various forms of media, examination of different aspects of Japanese culture and how it impacts language.|No cr for students w/cr in Linguis 200 with similar title. Prereq: none.

201 Third-Semester Japanese. 5 cr. U. Continuation of Japan 102, with some emphasis on the practice of Japanese writing.|Prereq: grade of C- or better in Japan 102(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

202 Fourth-Semester Japanese. 5 cr. U. Continuation of Japan 201, with some emphasis on the practice of Japanese writing.|Prereq: grade of C- or better in Japan 201(P) or equiv. Generates L&S credit for demonstrated equivalent

preparation (12 retro cr).

220 Introduction to Japanese Food Studies. 3 cr. U. Cultural, historical, geographic, and sociological aspects of Japanese food culture as related to everyday Japanese culinary practices.|Prereq: none.

277 Japanese Discussion Section: (Subtitled). 1 or 2 cr. U. Discussion in Japanese, designed to broaden perspectives, improve language skills. Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc.).|May be retaken w/chg in topic to 6 cr max. Prereq: Japan 202(Linguis 242)(P) or cons instr.

289 Internship in Japanese, Lower Division. 1-6 cr. U. Application of basic principles of Japanese in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: 2.50 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Fifth Semester Japanese. 4 cr. U. Continuation of Japan 202.|Prereq: grade of C- or better in Japan 202(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

302 Sixth Semester Japanese. 4 cr. U. Continuation of Japan 301.|Prereq: grade of C- or better in Japan 301(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

310 Enhanced Knowledge & Skills for the Japanese Language Proficiency Test. 3 cr. U. Preparation for levels N2 and N3 of the Japanese Language Proficiency Exam.|May be retaken to 12 credits max. Prereq; Japan 202(P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro credits).

321 Analyzing Hollywood-Japan Film Remakes. 3 cr. U. Critical knowledge and understanding of Japanese society and elements of Japanese culture acquired through an investigation of Hollywood-Japan film remakes.|In English. Counts as a repeat of Japan 499 w/same topic. Prereq: jr st.

330 Japanese Language and Culture. 3 cr. U. Japanese expression and culture; influence of Japanese history, customs, and geographic features on the Japanese language.|Prereq; Japan 202 (Linguis 242)(P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro credits).

331 Reading Japanese Short Stories. 3 cr. U. Introduction to Japanese short stories to improve reading skills, vocabulary, and understanding of Japanese culture.|Generates L&S credits for demonstrated equivalent preparation (14 retro crs). Prereq: Japan 202(P).

332 Extensive Reading in Japanese. (Subtitled). 1 cr. U. Reading practice utilizing easy readers, children's books, manga, and novels. Counts as repeat of Japan 299 w/ similar topic. May be retaken w/chg in topic to 3 cr max.|Prereq: jr st, Japan 101(P).

351 Japanese Performance Traditions. 3 cr. U. Japanese performance of drama and comedy from noh and kabuki to modern performance.|Prereq: jr st; satisfaction of OWC-A GER.

352 Japanese Performance Traditions: Readings. 1 cr. U. Readings in Japanese performance texts from medieval noh scripts to modern Japanese theater.|Prereq: jr st or cons instr; completion of OWC-A GER; Japan 351(C)

355 (effective 09/04/2018) Seminar in Japanese Literature and Culture: (Subtitled). 3 cr. U. Readings and discussion in English on selected topics in Japanese literature and culture.|May be retaken to a max of 9 crs. Prereq: jr st; completion of Oral and Written Communication (OWC) Competency Part A.

361 Translating Japanese Media. 3 cr. U. Development of the vocabulary, grammar knowledge, translating skills, and cultural sensitivities necessary to produce viable translations.|Generates L&S credits for demonstrated equivalent preparation (14 retro crs). Prereq: Japan 202(P).

370 Fun Kanji. 2 cr. U. Extensive practice in use of kanji, in order to enhance students' ability to read Japanese materials fluently.|Counts as repeat of Japan 299 w/ similar topic. Prereq: jr st and Japan 101(P).

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before coursework level, content, and credits are determined and/or in specially-prepared program coursework.

401 Seventh Semester Japanese. 4 cr. U. Continuation of Japan 302.|Prereq: grade of C- or better in Japan 302(P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro crs).

402 Eighth Semester Japanese. 4 cr. U. Continuation of Japan 401.|Prereq: grade of C- or better in Japan 401(P). Generates L&S credits for demonstrated equivalent preparation (16 retro crs).

416 Introduction to Translation: Japanese to English. 3 cr. U. Basic skills for translating texts from Japanese to English; focus on articles and documents encountered in business, banking, legal, medical, and academic contexts.|Prereq: jr st; grade of B or better in 300-level or above Japanese language course. .

441 Business Japanese I. 3 cr. U. Language and cultural studies that develop the practical knowledge and skills needed for doing business with Japan.|Prereq: Japan 302(P).

489 Internship in Japanese, Upper Division. 1-6 cr. U. Application of basic principles of Japanese in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Research and Research Writing in Japanese. 3 cr. U. Capstone course for Japanese major. Students conduct research in Japanese and produce a thesis and presentation based on that research.|Not open to students who have completed Japanese capstone req under FLL 499 or Japan 699. Prereq: grade of B- or better in Japan 401(P); pass level N3 of Japanese Language Proficiency Test; or cons instr.

516 Seminar in Advanced Translation: Japanese to English. 3 cr. U. Translation of ideas and conceptual knowledge in subject areas that include economics, law, society, culture, and history.|Prereq: Japan 416(P).

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course

credit at appropriate level. May be retaken w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Japanese faculty or academic staff member. May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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JEWISH Jewish Studies

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101 Jewish Culture in America: History, Literature, Film. 3 cr. U. Cross-disciplinary study of modern Jewish culture in America, with particular attention given to Jewish-American literature, film, and history of the nineteenth and twentieth centuries.|Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Timetable each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific social science topics are announced in the Timetable each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

247 Topics in Jewish Literature, Art, and Culture: (Subtitled). 3 cr. U. Introduction to various aspects of modern Jewish literature, art, and culture; possible topics include Jewish music, Jewish American literature, Holocaust literature, and Jewish art.|May be retaken w/chg in topic to 9 cr max. Prereq: none.

261 Representing the Holocaust in Words and Images. 3 cr. U. Holocaust literature and film; issues of representation and memory. Texts include memoirs, graphic novels, fiction, and documentaries.|No cr for students w/cr in Hebr St 238 with same topic. Hebr St 261 & Jewish 261 are jointly offered; they count as repeats of one another. Prereq: none.

289 Internship in Jewish Studies, Lower Division. 1-6 cr. U. Application of basic principles of Jewish studies in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: intro course in Jewish; 2.50 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

321 (Hebr St 321) The Holocaust and the Politics of Memory. 3 cr. U. Exploration of the political, sociological, and cultural motivations behind public debates about the Holocaust in post-WWII Germany, Israel, and France. | Prereq: jr st.

328 The Arab-Israeli Conflict. 3 cr. U/G. Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions. | Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic. Prereq: jr st.

350 Global Jewish Film and Television: (Subtitled). 3 cr. U. Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism. | FilmStd 350 & Jewish 350 are jointly offered; with the same subtitle, they count as repeats of one another. May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

358 The Jews of Modern Europe: History and Culture. 3 cr. U/G. History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production. | Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another. Prereq: jr st.

368 Jewish and Christian Responses to the Holocaust. 3 cr. U. Jewish and Christian answers to theological questions raised by the Holocaust, such as 'Where was God?' Focus on interfaith dialogue and understanding. | No cr for students w/cr in Hebr St 254 with same topic. Hebr St 368(268) & Jewish 368(268) are jointly offered; they count as repeats of one another. Prereq: jr st.

379 Introduction to Jewish History. 3 cr. U. Historical survey of major currents in Jewish culture and society from antiquity to the present day, with particular focus on the modern era. | Hist 379 & Jewish 379 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

421 Introduction to Yiddish Literature: (Subtitled). 3 cr. U. Development of Yiddish literature from medieval times to the twentieth century; close readings of works of major writers. | In English. May be retaken w/chg in topic to 9 cr max. Prereq: jr st.

449 (Hebr St 449) Modern Jewish Thought. 3 cr. U. Historical development of Jewish philosophical thought since the nineteenth century; close reading of influential thinkers of modern and contemporary times. | No cr for students w/cr in Hebr St 499 w/same title. Prereq: jr st.

489 Internship in Jewish Studies, Upper Division. 1-6 cr. U. Application of basic principles of Jewish studies in business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: jr st; 300-level or above Jewish course; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Seminar in Jewish Studies: (Subtitled). 3 cr. U. Seminar on a particular topic in Jewish Studies. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; a Hebr St or Jewish course; or cons instr.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Jewish studies faculty or academic staff member. May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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KOREAN Korean

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101 First-Semester Korean. 5 cr. U. Beginning Korean for students with no previous knowledge of the language.|Prereq: none.

102 Second-Semester Korean. 5 cr. U. Continuation of Korean 101.|Prereq: Korean 101(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

201 Third Semester Korean. 5 cr. U. Continuation of Korean 102.|Prereq: Korean 102(NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

202 Fourth Semester Korean. 5 cr. U. Continuation of Korean 201.|Prereq: Korean 201(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).

221 Korean Culture and Society. 3 cr. U. Exploration of Korean history, language, religion, and social values through literature, film, and discussion.|Counts as a repeat of FLL 216 w/same topic. Prereq: none.

289 Internship in Korean, Lower Division. 1-6 cr. U. Application of basic principles of Korean in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: 2.50 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc regin UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.|May be retaken

w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in Korean, Upper Division. 1-6 cr. U. Application of basic principles of Korean in business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Korean faculty or academic staff member. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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LACS Latin Amer & Caribbean Studies

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101 (Spanish 173) Introduction to Latin American and Caribbean Studies. 3 cr. U. Lectures and discussion of a range of topics relating to Latin America and the Caribbean that lead to an understanding of the cultures of these areas. | Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study: (Subtitled). 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program director. | Retakable to 6 cr max. Prereq: 2.5 GPA, writ cons instr, progr dir, & asst dean for SAS.

201 Special Topics in Latin American and Caribbean Studies: (Subtitled). 3 cr. U. Topics concerning Latin America and/or the Caribbean, with little or no focus on their diasporas. | Retakable w/chg in topic to 9 cr max. Prereq: none.

289 Internship in Latin American/Caribbean Studies, Lower Division. 1-6 cr. U. Application of basic principles of history in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: 2.50 gpa, cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One credit for 45 hrs research. Retakable to 9 cr max in any combinations of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. | Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires

only progr dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Advanced Topics in Latin American and Caribbean Studies: (Subtitled). 3 cr. U. Advanced-level topics concerning Latin America and/or the Caribbean, with little or no focus on their diasporas. |Retakable w/chg in topic to 9 cr max. Prereq: jr st.

326 Brazilian Politics and Society. 3 cr. U. Puzzles and complexities of governing Brazil in 20th and 21st centuries. Historical and institutional foundations of the Brazilian state; current political, economic, and social environment. |Comparative politics course. LACS 326 & Pol Sci 326 are jointly offered; they count as repeats of one another. Prereq: jr st.

489 Internship in Latin American/Caribbean Studies, Upper Division. 1-6 cr. U. Application of basic principles of Latin American/Caribbean studies in business, organizational, educational, political, or other appropriate setting. |One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

496 Advanced UROP Apprenticeship. 1-3 cr. U. Advanced undergraduate research participation in a project developed with a supervising member of the faculty of staff. |One cr for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior UROP apprenticeship or equiv rsrch experience.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work. |Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only progr dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. |Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Latin American/Caribbean studies faculty or academic staff member. |Retakable w/chg in topic to 9 cr max in any combination of LACS/Latino 698, LACS 699, & Latino 699. Prereq: jr st; 2.5 GPA; writ cons instr, progr dir, & asst dean for SAS.

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LACUSL Lat Am, Caribb, & US Latin@ St

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199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program coordinator. |Retakable to 6 cr max. Prereq: 2.50 gpa; writ cons instr, prog coord, & asst dean for SAS.

200 Special Topics in Latin American, Caribbean, and U.S. Latin@ Studies: (Subtitled). 3 cr. U. Various topics that integrate the experiences of Latin American, Caribbean, and U.S. Latin@ populations, environments, and/or cultures. |Retakable w/chg in topic to 9 cr max. Counts as repeat of LACS/Latino 200 w/same topic. Prereq: none.

201 Latin American, Caribbean, and U.S. Latin@ Arts and Culture: (Subtitled). 3 cr. U. Approaches to the art, literature, and other cultural productions of Latin America, the Caribbean, and the Latin@ U.S. |Retakable w/chg in topic to 9 cr max. Prereq: none.

289 Internship in Latin American, Caribbean, and U.S. Latino Studies, Lower Div. 1-6 cr. U. Application of basic principles of Latin American, Caribbean, and U.S. Latino studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. |Retakable to 6 cr max. Prereq: 2.50 gpa, cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. |One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. |Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. |Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

300 (LACS 300) Advanced Topics in Latin American, Caribbean, and U.S. Latino Studies: (Subtitled). 3 cr. U. Advanced study of topics that integrate the experiences of U.S. Latino populations with their countries of origin. |Retakable w/chg in topic to 9 cr max. Counts as repeat of LACS/Latino 300 w/same topic. Prereq: jr st.

324 (LACS 324) Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre. 3 cr. U. Survey of Latin American, Caribbean, and U.S. Latina/o theatre and performance. History and cultures of the Americas that shape these productions. |Counts as repeat of LACS or Latino 324. LACUSL 324 & Theatre 324 are jointly-offered; they count as repeats of one another. Prereq: jr st.

489 Internship in Latin American, Caribbean, and US Latino Studies, Upper Level. 1-6 cr. U. Application of basic principles of Latin American, Caribbean, and U.S. Latino studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. |Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; written cons supervising prof.

496 UROP Apprenticeship, Upper Level. 1-3 cr. U. Advanced-level undergraduate research in a project developed with a supervising member of the faculty or academic staff. One credit for 45 hours research. |Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior on conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UW-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. |Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l semester. |Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

680 (LACS 680) LACUSL Senior Research Project. 3 cr. U. Independent capstone project for the LACUSL major, integrating Latin@ and Latin American/Caribbean perspectives on a topic selected by the student in consultation with their faculty mentor. |Prereq: sr st; declared LACUSL major.

699 Advanced Independent Study. 1-3 cr. U. Advanced independent work under supervision of faculty or academic staff member. For further information, consult the program coordinator. |Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; written cons instr, prog coord, & asst dean for SAS.

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MIL SCI Military Science

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101 Military Physical Training and Conditioning I. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: none.

102 Military Physical Training and Conditioning II. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 101(P) or cons instr.

110 Leadership and Personal Development. 1 cr. U. Personal challenges and competencies that are critical for effective leadership and the structure of the ROTC.|Prereq: none.

120 Introduction to Leadership. 1 cr. U. Issues and competencies that are central to a commissioned officer's responsibilities.|Prereq: Mil Sci 110(P) or cons instr.

201 Military Physical Training and Conditioning III. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 102(P) or cons instr.

202 Military Physical Training and Conditioning IV. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 201(P) or cons instr.

210 Foundations of Leadership. 2 cr. U. The dimensions of creative and innovative tactical leadership strategies and styles.|Prereq: Mil Sci 120(P) or cons instr.

220 Foundations of Tactical Leadership. 2 cr. U. The challenges of leading teams in the complex operational environment.|Prereq: Mil Sci 210(P) or cons instr.

301 Military Physical Training and Conditioning V. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 202(P) or cons instr.

302 Military Physical Training and Conditioning VI. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 301(P) or cons instr.

310 Adaptive Team Leadership. 3 cr. U. The study, practice and application of Army leadership in team or squad situations.|Prereq: Mil Sci 220(P) or cons instr.

320 Applied Team Leadership. 3 cr. U. The study and practice of small unit tactics at the team and squad level.|Prereq: Mil Sci 310(P) or cons instr.

401 Military Physical Training and Conditioning VII. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 302(P) or cons instr.

402 Military Physical Training and Conditioning VIII. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 401(P) or cons instr.

410 Adaptive Leadership. 2 cr. U. Methods of training, mentoring and evaluating subordinate personnel.|Prereq: Mil Sci 320(P) or cons instr.

420 Leadership in a Complex World. 2 cr. U. Differences in customs and courtesies, military law, principles of war, COIN, and Rules of Engagement in the face of persistent conflict.|Prereq: Mil Sci 410(P) or cons instr.

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NUTR Nutritional Sciences

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101 Introduction to the Nutrition Profession. 1 cr. U. Introduction to the field of nutritional sciences and related professions.|Prereq: none.

110 Introduction to Food Principles & Preparation. 3 cr. U. Introduction to the physical and chemical properties of foods, food safety and sanitation, food preparation procedures, and evaluation of prepared food products in a lab setting.|Prereq: none.

210 Food Science. 3 cr. U. Continued study of the physical/chemical properties of foods; topics include food composition and nutrition, food additives and regulations, food safety and processing, food engineering.|Prereq: grade of C or better in Nutr 110(P).

235 Introduction to Nutrition for the Health Professions. 3 cr. U. A broad, science-based, practical knowledge of nutritional science and metabolism to prepare for health and nutrition professions.|Counts as repeat of Kin 290 w/same topic. Prereq: grade of C or greater in Chem 100(P), Chem 101(P), or Chem 102(P); & Bio Sci 202(P) or (C).

240 Nutrition for Exercise and Wellness. 3 cr. U. The role of nutrition in supporting health, wellness, and exercise on a national, state, community, and individual level.|Counts as repeat of Kin 290 w/same topic. Prereq: grade of C or better in Nutr 235(P) or BMS 232(P).

241 (KIN 241) Why We Eat What We Eat: An Ecological Approach. 3 cr. U. Examination of food choice and eating behavior using a multilevel, social ecological perspective. Nutrition and health implications will be discussed.|Prereq: none.

245 Life Cycle Nutrition. 3 cr. U. An exploration of physiological, sociological, and developmental factors that affect humans nutritional needs and recommendations throughout the life cycle.|Counts as a repeat of BMS 290 w/same topic. Prereq: admis to Nutr major or Nutr minor.

290 Special Topics in Nutritional Sciences: (Subtitled). 1-3 cr. U. Topics of current interest in nutritional sciences, food, and health. Special course fees may be required depending on course. May be retaken w/chg in topic.|Prereq: specified in sem schedule whenever required for a topic.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in a UWM sponsored program before course work level, content, and credits are determined and/or in specifically prepared program course work.|May be retaken

w/chg in topic. Prereq: acceptance for Study Abroad Program.

350 Nutrition Communication and Education. 3 cr. U. Approaches to nutrition and health communication and education; development of nutrition and health-related communication materials for target audiences. Prereq: admis to Nutr major or Nutr minor.

355 Modifying Nutrition and Eating Behavior. 2 cr. U. Introduction to the basic components of nutritional assessment, behavior change theories and techniques, and educational processes for individuals and groups. Prereq: admis to Nutr major or Nutr minor; grade of C or better in Nutr 245(P) or (C).

430 Advanced Nutrition and Metabolism. 3 cr. U/G. Study of nutrients and their specific functions in metabolic processes; integrating physiology, biochemistry, and nutrition. Prereq: admis to Nutr major or Nutr minor; Chem 103(P) or Chem 501(P) or (C).

435 Nutrition and Disease. 3 cr. U. Explores nutritional, physiological, and biochemical aspects of disease processes, and examines the role of food and nutrition in disease prevention, management, and treatment. Prereq: admis to Nutr major or Nutr minor; grade of C or better in Nutr 350(P) & Nutr 355(P) or (C)

470 Nutrition Internship/Project. 4 cr. U. Supervised internship experience or advanced project(s) typically during the last semester of the undergraduate major. Prereq: sr st & admis to Nutr major; grade of C or better in Nutr 355(P) & Nutr 435(P) or (C); cons internship coord.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakeable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

550 Sports Nutrition. 3 cr. U/G. The integration and application of nutrition and exercise science principles to maximize health, fitness, and sport performance. Counts as repeat of BMS/Kin 590 w/same topic. Prereq: jr st; grade of C or better in Nutr 235(P) or BMS 232(P).

555 Public Health Nutrition and Food Politics. 3 cr. U/G. This course highlights the role of food and nutrition in public health programs and services. Counts as repeat of BMS(Kin) 290 w/same topic. Prereq: jr st; grade of C or better in Nutr 235(P) or BMS 232(P), Nutr 240(P), & Bio Sci 203(P); or cons instr.

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[Joseph J. Zilber School of Public Health](#)

PH Public Health

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[[Peck School of the Arts](#)]
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101 Introduction to Public Health. 3 cr. U. Introduction to history, science and philosophy of Public Health including scientific research, policy development and health education.|Prereq: none.

142 Exploring Global Environmental Health. 3 cr. U. Introduction to the sciences underpinning the study and response to infectious, chemical, and physical environmental threats to human health within a global public health framework.|Prereq: none.

201 (effective 09/04/2018) Public Health from Cells to Society I. 3 cr. U. Introduces public health as a holistic interdisciplinary field spanning cell to society. Emphasizes active learning about current public health problems from multilevel and lifecourse perspectives.|Prerequisites: PH 101(P) or PH 142(P); BioSci 102(C).

202 (effective 09/04/2018) Public Health from Cells to Society II. 3 cr. U. Introduces multilevel societal drivers of health inequities over the lifecourse. Actively explores how social inequality gets under the skin to influence current public health problems.|Prereq: PH 201(P); Kin 270(R) or MthStat 215(R).

206 Child and Adolescent Health. 3 cr. U. Review evidence-based child and adolescent health promotion in school, community, and clinical settings; Adolescent risk behaviors of special interest.|Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

302 (effective 09/04/2018) Health and Disease: Concepts and Contexts. 3 cr. U. Concepts of health and disease across social, historical, political, and cultural contexts, with particular attention to the workings of race, gender, and sexuality.|Prereq: jr st & satisfaction of OWC-Â¿B.

303 Climate Change, the Environment and Human Health. 3 cr. U. Acquire knowledge about and be able to identify ways in which climate change adversely affects human health globally, nationally and locally.|Prereq: soph st; or cons instr.

306 Adolescent Health & Development. 3 cr. U. A public health perspective on adolescent development and health/mental health promotion Readings, assignments and activities focus on drug use, sexuality, obesity, trauma, depression and violence.|Prereq: Psych 101(P) or PH 101(P) or cons instr.

319 Introduction to Health Disparities. 3 cr. U. An introduction to health inequalities as they pertain to racial and ethnic populations in the U.S. and an overview of key determinants of population health.|Prereq: none.

327 Foundations for Action in Public Health. 3 cr. U. History, perspectives, and theoretical foundations of taking action and making change in public health and related disciplines.|Prereq: sophomore standing; PH 101(P); satisfaction of GER OWC Part A.

345 Green fish, green worms & more: animal models and their applications. 3H cr. U. An introduction to the field of applied public health biology where animal models are being utilized to determine how environmental contaminants influence human health.|Prereq: none.

346 (effective 09/04/2018) Environmental Health and Disease. 3 cr. U. Investigates how the environment and/or environmental factors impact human health and population health with an emphasis on the developmental origins of disease.|Prereq: Bio Sci 102(P) & PH 142(P).

355 (effective 09/04/2018) Public Health Research Methods I. 3 cr. U. Introduction to public health qualitative and quantitative research methods and considerations for conducting ethical public health research.|Prereq: KIN 270(P) or MthStat 215(P); HCA 307(P).

375 Topics in Public Health for Undergrads: (Subtitled). 3 cr. U. Topics of current interest in Public Health for undergrads.|May be retaken w/chg in topic. Prereq: none.

699 Independent Study. 1-3 cr. U. Independent study on a topic not available as a regular course.|Prereq: cons instr.

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PRPP Physical Rehab & Perf Psych

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521 (Kin 521) Pathoetiology of Tissue Injury. 3 cr. U/G. Examination of tissue structure, biomechanics, injury, pathology and healing. |Counts as repeat of Kin 590 with similar title. Prereq: jr st; grade of C or better in Kin 320(P); or grad st or cons instr.

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PUB ADM Public Administration

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243 Public Administration. 3 cr. U. The means used to implement political values with emphasis on problems of administration in modern government. | Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another. Prereq: none.

400 Ethics and Responsibility in Public Administration. 3 cr. U/G. How public administrators make ethically-sound decisions; moral and value systems that shape public administration; temptations that can cause officials to stray from ethical standards. | Counts as repeat of Pol Sci 387 w/ Administrative Ethics & Responsibility subtitle. Prereq: jr st.

452 Administrative Law. 3 cr. U/G. An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory investigatory, and enforcement activities of administrative agencies. | American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another. Prereq: jr st.

461 (Pol Sci 461) Organizational Theory and Practice. 3 cr. U/G. Analysis of the role of organizations in contemporary society, with particular emphasis on governmental organizations that have formal regulation of individual group behavior as their basic functions. | Prereq: jr st.

630 Budgeting and Finance in the Public Sector. 3 cr. U/G. Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing. | Jointly-offered w/& counts as repeat of UrbPlan 630. Prereq: sr st or cons instr.

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RELIGST Religious Studies

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101 Introduction to World Religions. 3 cr. U. Basic concepts of world religions; broad overview of various religious traditions in ancient and modern configurations. | Prereq: none.

106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy. 3 cr. U. Anishinaabe philosophical and religious beliefs incorporating botanical knowledge. | AIS 106 & ReligSt 106 are jointly offered; they count as repeats of one another. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific social science topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. | Retakable to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

225 Society and Religion in the Ancient Mediterranean and Near East. 3 cr. U. Using historical evidence (written texts, material remains) to examine religion and social organization in ancient Mesopotamia, Egypt, Israel/Canaan, Minoan Crete, Mycenaean and archaic Greece. | Prereq: none.

250 Selected Topics in Religious Studies: (Subtitled). 3 cr. U. Focus on a particular religion or religious issue. | Retakable w/chg in topic to 9 cr max. | Prereq: satisfaction of OWC-A.

289 Internship in Religious Studies, Lower Division. 1-6 cr. U. Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One credit for 45 hours research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: acceptance for Study Abroad Program

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.|Retakable w/chg in topic. Prereq: none. Additional prereqs may be assigned to specific topic.

309 Early Christianity. 3 cr. U. The early Christian period: what people believed and why; how Christianity was understood, practiced, and integrated into people's lives. Emergence from, contact with other religious cultures.|No cr for students w/cr in Hist 370 w/same topic. Prereq: jr st.

350 Advanced Topics in Religious Studies: (Subtitled). 3 cr. U. Advanced study of a particular religion or religious issue.|Retakable w/chg in topic to 9 cr max. Prereq: jr st.

351 Anthropological Theories of Religion. 3 cr. U. Anthropological theories of religion covering magic and witchcraft, moral order, sacred and profane, alienation, capitalism, neurosis, ritual, fetishism, fundamentalism, conversion, sacrifice, and healing.|Anthro 351 & ReligSt 351 are jointly offered; they count as repeats of one another. Prereq: jr st.

361 Russian and Slavic Folklore. 3 cr. U. Folk beliefs of the past thousand years, including medieval folk epics, fairy tales, and legends; impact of ancient pagan beliefs on contemporary Slavic cultures. Counts as repeat of Russian 391 w/same topic. ReligSt 361 & Russian 361 are jointly offered; they count as repeats of one another. Prereq: jr st.

395 Seminar in the Study of Religion: Theories of Religion. 3 cr. U. Critical inquiry into the questions of and about religion: what is religion, and how do we study it?|Prereq: jr st.

451 Religious Practices and Values in Local and Global Communities. 3 cr. U. Religious practices and values of six major world religions are examined in order to promote understanding and cooperation within a diverse community.|Prereq: jr st.

489 Internship in Religious Studies, Upper Division. 1-6 cr. U. Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st, add'l prereqs may be assigned to specific topic.

544 Religious Giving in Anthropological Perspective. 3 cr. U. Seminar on religious directives for giving in historical and cross-cultural perspective, including Christian, Hindu, Buddhist, Muslim, and Jewish ideas of charity, philanthropy, and social welfare.|Anthro 544 & ReligSt 544 are jointly offered; they count as repeats of one another. Prereq: jr st.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of ReligSt faculty or academic staff member.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS

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SCNDVST Scandinavian Studies

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101 First-Semester Swedish. 4 cr. U. Introductory course for students who have not studied Swedish previously. Oral practice, grammar, and reading.|Prereq: none.

102 Second-Semester Swedish. 4 cr. U. Continuation of ScndvSt 101 (German 180).|Prereq: ScndvSt 101(German 180)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.|May be retaken to 6 cr max. Prereq: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

203 Third-Semester Swedish. 3 cr. U. Continuation of ScndvSt 102 (German 181).|Prereq: ScndvSt 102(German 181)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

204 Fourth-Semester Swedish. 3 cr. U. Continuation of ScndvSt 203 (German 280).|Prereq: ScndvSt 203(German 280)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

289 Internship in Scandinavian Studies, Lower Division. 1-6 cr. U. Application of basic knowledge of Scandinavian Studies in business, organizational, educational, political or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.|May be retaken to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hours research.|May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course levels, content, and credits are determined and/or in specially prepared program course work.|May be retaken w/chg in topic. Prereq: acceptance for Study Abroad Program.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires

only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester. | May be retaken w/chg in topic. Prereq: none; additional prereqs may be assigned to specific topic.

331 Intermediate Swedish Grammar and Writing. 3 cr. U. Review of major structures in Swedish grammar; application of those structures through writing and speaking. Emphasis on written accuracy and proficiency for academic/non-academic purposes. | Prereq: ScndvSt 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

332 Analysis of Swedish Texts. 3 cr. U. Authentic Swedish texts of different types with varied content and viewpoints. Overview of basic textual analysis skills; reading strategies; vocabulary and language skills. | Prereq: ScndvSt 204(P) or equiv; ScndvSt 331(R). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

426 Introduction to Translation: Swedish to English. 3 cr. U. Basic skills for Swedish to English translation using authentic texts from a variety of fields; translation strategies and tools; issues in grammar and style. | Prereq: jr st; ScndvSt 204(P) or cons instr.

489 Internship in Scandinavian Studies, Upper Division. 1-6 cr. U. Application of basic knowledge of Scandinavian Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. | May be retaken to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course level, content, and credits are determined and/or in specially prepared program course work. | May be retaken w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester. | May be retaken w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of ScndvSt faculty or academic staff member. | May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

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TRNSLTN Translation & Interpreting

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201 Introduction to Translation and Interpreting Studies. 3 cr. U. Linguistic and cultural aspects of globalization analyzed alongside emerging practices in various language service professions/specializations; prevailing modes of multilingual communication and cross-cultural interaction.|Prereq: none.

400 Consecutive Interpreting. 3 cr. U. Professional protocols and practices of different modalities of consecutive interpreting; exercises for improvement of split-attention, short-term memory and information organization; ethical principles of interpreting profession.|Prereq: jr st; sixth semester of a foreign language.

409 Seminar in Literary and Cultural Translation. 3 cr. U. Study and practice of literary translation in its cultural setting. Discussion of essays, analysis of published translations, translation practice, and collegial discussion of students' work.|Prereq: jr st; sixth-semester or equiv of a foreign language.

410 Comparative Systems for Translation. 3 cr. U. Comparative systems in society; how those systems relate to the field of translation; how to make informed translation choices based on subtle differences in systems.|Prereq: jr st; satisfaction of Oral and Written Communication Part A GER.

411 Ethics and Procedures in Interpreting. 3 cr. U. Fundamentals of providing spoken language interpreting services in various settings.|Prereq: sixth sem of any lang or cons instr.

422 Simultaneous Interpreting. 3 cr. U. The field and practice of simultaneous interpretation, covering the historical development, cognitive processes and how SIMS is used in other contexts.|Counts as repeat of Global 499 w/same topic. Prereq: jr st; cons instr

427 Project Management in Translation. 3 cr. U. Principles of project management and quality assurance in translation industry standards and techniques of effective project management for a variety of language service projects.|Prereq: jr st.

428 Editing for Translation. 3 cr. U. Translation industry standards and best practices for quality assurance. Students edit texts in English, applying style guides and implementing effective research techniques.|Prereq: jr st; cons Trnslt Prog dir.

430 Internship in Translation. 3 cr. U. Internship offering on-the-job experience to students with a background in translation.|Prereq: jr st; cons Trnslt Prog dir.

465 Introduction to Translation: English to French. 3 cr. U/G. Translation of texts from English into French. Comparative study of French and English syntax and comparative culture.|French 465 & Trnsln 465 are jointly offered; they count as repeats of one another. Counts as repeat of French 499 with Intro to English to French Translation topic. Prereq: jr st; grade of B or better in French 325(P); French 427(P) or cons instr.

530 Business and Professional Aspects of Translation. 3 cr. U/G. Practical knowledge needed to succeed as free-lance or in-house translators; marketing, advertising, negotiating as well as legal and tax issues.|Prereq: jr st; French 415(425)(P), or German 425(P), or Spanish 347(P) or 707(P), or Trnsln 415(P), 425(P), or 707(P).

550 Advanced Modes of Interpreting. 3 cr. U. Practice of simultaneous & consecutive interpreting; sight translation; note-taking; technology in interpreting.|Counts as repeat of Global 499 w/same topic. Prereq: jr st; cons instr

699 Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a faculty or instructional academic staff member. Student must submit a study proposal. For further information, consult program coord.|May be retaken w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

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