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# Home

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## Publication Date: May 1, 2015 <sup>1</sup>

These pages provide a guide to academic requirements, resources and facilities at the University of Wisconsin-Green Bay.

- Students entering in Fall 2015 or Spring 2016 will use this edition (2015-16) to map their academic plans in consultation with faculty and staff advisers.
- Students who are continuing at UW-Green Bay follow the requirements of the annual catalog that was current when they entered. A student may, however, change to a more recent catalog with permission from his or her faculty adviser.

More resources and information can be found on the UW-Green Bay website, <http://www.uwgb.edu>.

<sup>1</sup> At the time of publication, several programs were pending UW System Board of Regents and/or Higher Learning Commission approvals. If these programs gain final approval for 2015-2016, this publication will be updated to include these programs.

# Undergraduate Catalog

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## UW-Green Bay Education

The University of Wisconsin-Green Bay is known for excellence in teaching, its focus on problem solving, its attractive bayshore campus and a friendly, welcoming atmosphere.

## Major Advantage

UW-Green Bay students choose from a wide selection of majors and fields of study.

In every academic program, the curriculum is designed to provide students the tools necessary to evaluate and address real-world problems. There is an expectation that students will be challenged to integrate ideas from different fields, seek connections, consider more ideas rather than fewer, to manage uncertainty rather than fear it, and to always remember there is rarely one answer.

UW-Green Bay's approach is notable in that students choose their majors from traditional disciplines (fields of study) but also from the University's extensive list of "interdisciplinary" majors. Interdisciplinary is a term used by educators to describe programs that bring together the best thinking and thinkers in multiple fields to address complicated, interrelated issues.

An example of an interdisciplinary major is Environmental Science, where a student might apply biology, chemistry, mathematics, geoscience or other disciplines to larger environmental concerns. Other examples of interdisciplinary majors include Human Development, Business Administration, and Democracy and Justice Studies.

Every student completes either an interdisciplinary major or a disciplinary major coupled with an interdisciplinary minor.

## Valuable Skills

In an interdependent world with a growing innovation economy, the future will favor people who are flexible, highly adaptable, entrepreneurial and effective communicators.

UW-Green Bay's top academic leaders talk of the demand they see for "T-shaped individuals" — people with deep intellectual roots and skills in a specific discipline who are able to reach out to link up with individuals having similarly deep roots in other disciplines.

The UW-Green Bay academic approach emphasizes the development of these high-value traits: flexibility for on-the-job learning; ability to work in small, task-oriented teams; capacity to analyze and delineate a clear overview of a problem; strong written and verbal communication skills; technological competence and information literacy; and the ability to collaborate with individuals from diverse backgrounds.

## Connections Outside the Classroom

Students, faculty and staff connect learning to life, every day, through research, internships, paid employment and volunteer involvement in the community.

Green Bay and its surrounding region provide ample opportunity. Long known as a manufacturing, papermaking and food-processing center and the home of the Packers, Green Bay has experienced growth in the healthcare, insurance and tourism sectors of its economy. While the metropolitan population is about 250,000, the city serves as the trade, transportation and cultural heart of an increasingly diverse region of nearly one million residents extending across much of northern Wisconsin and the Upper Peninsula of Michigan. Green Bay is home to excellent museums, parks, theatres and sports-related facilities. It is the gateway to popular Midwest vacation destinations in the scenic Door Peninsula and Wisconsin's northern forests.

## Affirmative Action Policy

In compliance with applicable federal and state regulations, the University of Wisconsin-Green Bay is committed to nondiscrimination, equal opportunity and affirmative action in its educational programs and employment practices. Inquiries concerning the Affirmative Action Policy may be directed to:

Human Resources Office  
University of Wisconsin-Green Bay  
2420 Nicolet Drive  
Green Bay WI 54311-7001  
(920) 465-2390

## Accommodations

UW-Green Bay is committed to providing accommodations for eligible individuals with documented disabilities as defined by federal and state law. In accordance with UW System Board of Regents Policy UWS 22.01, sincerely held religious beliefs shall be reasonably accommodated with respect to all examinations and other academic requirements. Questions about these policies should be directed to:

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University of Wisconsin-Green Bay  
2420 Nicolet Drive  
Green Bay WI 54311-7001  
(920) 465-2152

**This catalog is an informational publication of UW-Green Bay. Its provisions DO NOT constitute a contract between the student and the University.**

## About UW-Green Bay

- At a Glance (<http://www.uwgb.edu/univcomm/about-campus/profile.asp>)
- Degrees and Accreditation (p. 12)
- State Authorization for Distance Education (p. 13)
- UW-Green Bay Education (p. 14)
- UW-Green Bay In-Depth (<http://www.uwgb.edu/univcomm/about-campus/indepth.asp>)

## Degrees and Accreditation

### Degrees

- Bachelor of Applied Studies (B.A.S.)
- Bachelor of Arts (B.A.)
- Bachelor of Science (B.S.)
- Bachelor of Business Administration (B.B.A.)
- Bachelor of Music (B.M.)
- Bachelor of Social Work (B.S.W.)
- Bachelor of Science Nursing (B.S.N.)
- Associate of Arts and Sciences (A.A.S.) degree

### Accreditation

Founded in 1965, UW-Green Bay is one of 13 degree-granting institutions in the highly respected, tradition-rich University of Wisconsin System.

The University holds a full 10-year accreditation from the Higher Learning Commission of the North Central Association of Colleges and Schools  
230 South La Salle Street, Suite 7-500  
Chicago, Illinois 60604-1413

For more information, view the UW-Green Bay affiliated institution profile page ([http://www.ncahlc.org/?option=com\\_directory&Action=ShowBasic&instid=2052](http://www.ncahlc.org/?option=com_directory&Action=ShowBasic&instid=2052)) on the Higher Learning Commission website.

Individual programs with accreditations or approvals:

- Chemistry, American Chemical Society
- Dietetics component of Human Biology, Academy of Nutrition and Dietetics
- Health Information Management and Technology, Commission on Accreditation for Health Informatics and Information Management
- Music, National Association of Schools of Music
- Nursing, Commission on Collegiate Nursing Education
- Social Work, Council on Social Work Education
- Teacher Education, Wisconsin Department of Public Instruction

### Administration

University of Wisconsin System  
Raymond W. Cross – President

## University of Wisconsin System

Board of Regents

- John R. Behling, Eau Claire
- Mark J. Bradley, Wausau
- José Delgado
- Tony Evers, Madison
- Michael J. Falbo, Franklin
- Margaret Farrow, Pewaukee
- Eve Hall
- Nicolas Harsy
- Tim Higgins, Appleton
- Edmund Manydeeds, Eau Claire
- Regina Millner, Madison
- Janice Mueller, Madison
- Drew Petersen, Madison
- Charles Pruitt, Milwaukee
- Anicka Purath
- José F. Vásquez, Wauwatosa
- David G. Walsh, Madison
- Gerald Whitburn, Wausau

## University of Wisconsin-Green Bay

- Gary L. Miller – Chancellor
- Gregory Davis – Interim Provost and Vice Chancellor for Academic Affairs
- Sheryl Van Gruensven – Interim Vice Chancellor for Business and Finance
- Ronald Pfeifer - Associate Chancellor for External Affairs

## State Authorization for Distance Education

### Authorization for Distance Education in States Outside Wisconsin

The University of Wisconsin-Green Bay has nine online degree programs: an Associate Degree (AAS), a Bachelor of Business Administration (BBA), a Bachelor of Science Degree in Nursing (BSN), a Bachelor of Science in Health Information Management Technology (BS-HIMT), a Bachelor of Arts in Integrative Leadership Studies (BA-ILS), a Bachelor of Applied Studies in Integrative Leadership Studies (BAS-ILS), a Master of Science in Data Science (MS-DS), Master of Science in Sustainable Management (MS-SMGT), and Master of Science Degree in Nursing Leadership and Management in Health Systems (MSN).

#### Authorized

The University is authorized to offer its online degree programs in the following states:

Alabama  
Alaska  
Arizona  
California  
Colorado  
Connecticut  
Delaware  
District of Columbia (Washington)  
Georgia  
Idaho  
Illinois  
Iowa  
Kansas  
Louisiana  
Maine  
Massachusetts  
Michigan  
Minnesota  
Missouri  
Mississippi

Montana  
Nebraska  
New Hampshire  
New Jersey  
New Mexico  
New York  
North Carolina  
North Dakota  
Ohio  
Pennsylvania  
Rhode Island  
South Carolina  
South Dakota  
Texas  
Utah  
Vermont  
Virginia  
Washington  
West Virginia  
Wyoming

#### **Seeking Authorization**

The University is seeking authorization to offer its online degree programs in the following states:

Arkansas  
Florida  
Indiana  
Nevada  
Oklahoma  
Oregon  
Washington (state)

#### **Unauthorized**

The University is not authorized to offer its online degree programs in the following states:

Hawaii  
Kentucky  
Tennessee  
Maryland

## **UW-Green Bay Education**

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## General Information

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- Academic Calendar (<http://www.uwgb.edu/registrar/calendar/academic>)
- Academic Rules and Regulations (p. 20)
- Campus Maps (<http://www.uwgb.edu/maps>)
- Emergency and Parental Notification Policy (p. 31)

- University Testing Requirements (p. 32)

## Admissions

- Admission Standards (p. 16)
- Degree-Seeking Students (p. 17)
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- Special Students (non-degree seeking) (p. 19)
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## Admission Standards

**UW-Green Bay Admissions Office website:** [www.uwgb.edu/admissions/](http://www.uwgb.edu/admissions/)

Success at the university level requires proficiency in a number of academic skills areas. Preparation for university study is best achieved by completion of a rigorous high school program. In order to be assured that students are prepared to successfully complete college-level work, UW-Green Bay is guided by a philosophy of personalized admission and comprehensive applicant review.

## High School Coursework

Freshman applicants will typically meet or exceed the following college-preparatory unit standards:

- English, 4 credits
- Science, 3 credits
- Math, 3 credits
- Social Studies, 3 credits
- Academic Electives\*, 2 credits
- Other Electives\*\*, 2 credits
- **Total: 17 credits**

\* From the areas of English, science, math, social studies, or foreign language.

\*\* From the above areas and/or in the fine arts, computer science, business or other areas.

**Please note that most freshmen exceed these standards by a significant amount.**

Consideration for admission is based on a number of factors: cumulative grade point average, GPA trends, GPA in core courses, ACT/SAT scores, strength of college-preparatory curriculum in high school, special talent/circumstances, leadership and extra/co-curricular participation, socio-economic background, the personal statement, and other materials requested as part of the application process.

Locate your ACT composite score along the top of the chart below and your high school GPA in the column on the left. Follow down from your ACT score, and over from your GPA, and the square that you end up in shows the percent of applicants with academic qualifications similar to yours that were admitted to UW-Green Bay for fall 2013.

## Range of High School GPA to Range of ACT Composite Score

Range of High School GPA	ACT <18	ACT 18 to 20	ACT 21 or 22	ACT 23 and above
3.25 and Higher	93%	99%	99+%	99+%
3.00 to 3.24	73%	99+%	99+%	99+%
2.75 to 2.99	33%	66%	94%	99+%
Under 2.75	9%	8%	39%	64%

Criteria may be guided based on enrollment targets, application volume, and institutional capacity.

## Home Schooled Students

The Admissions Review Committee will consider students individually based on the same criteria used for other applicants.

## GED/HSED Applicants

The Admissions Review Committee will consider students who have completed the tests for the General Education Development (GED) or the High School Equivalency Diploma (HSED). Factors considered in these decisions include:



- Review of high school coursework completed
- Review of total GED/HSED score, plus review of individual test scores
- Review of ACT/SAT scores

Students with GED/HSED scores below admissible standards may be considered if additional coursework has been taken to improve ability in that area. Since a GED/HSED test may be taken only once if a passing score is earned, successful additional work may be presented as evidence of ability.

## Transfer Admission Requirements

Students who have attended college after high school graduation may transfer to UW-Green Bay if the college work has been successful. All transfer applications receive a comprehensive review. Admission decisions are based on GPA, number of credits earned, rigor and breadth of curriculum, and other predictors of success. Generally, students with a cumulative transfer GPA of 2.5 or above have the highest likelihood of admission. Based on the comprehensive review, students with less competitive academic records may be placed on a waiting list or may be denied admission.

Extra consideration will be given to students whose most recent college experience is at the UW Colleges and who have earned a UW Colleges Associate Degree.

Admission to UW-Green Bay does not guarantee admission to all majors. A number of majors have competitive program admission requirements. To see if your proposed major has additional admission requirements, refer to the Undergraduate Programs section of this catalog.

## Degree-Seeking Students

**UW-Green Bay Admissions Office website:** [www.uwgb.edu/admissions/](http://www.uwgb.edu/admissions/)

### Application Procedures for Degree-Seeking Students

Degree-seeking students applying to UW-Green Bay should submit the University of Wisconsin undergraduate application. The application can be found online at [apply.wisconsin.edu](http://apply.wisconsin.edu) (<https://apply.wisconsin.edu>). If you prefer a paper application, you can print a PDF from that website.

### Test Scores

Freshman applicants, and transfer applicants who have completed fewer than 15 transferable college credits at the time of application, must submit official ACT/SAT test scores prior to an admission decision being made. Test scores must be transmitted to UW-Green Bay directly from the testing agency. Personal copies, photocopies, or scores recorded on a high school transcript are not considered official.

### Transcripts

New freshmen must request that a copy of the high school transcript be sent directly to the Office of Admissions at UW-Green Bay. Many students are admitted to the University on the basis of grades earned through the junior year in high school, plus a listing of the classes carried in the senior year. In this way, they may be admitted before high school graduation. The University must receive a final copy of the transcript after graduation to verify that the student has, indeed, graduated and has maintained a satisfactory academic record. This must be received prior to the student beginning classes at UW-Green Bay.

Changes on a transcript from what was originally reported (for example, dropped or failed classes or a drop in GPA) may alter the admission decision. A cancellation of admission may result, especially if there is a serious drop in GPA and grades.

Other students may be asked to provide grades through the senior year of high school to assist the Admissions Review Committee in making the best possible evaluation of their potential for achievement.

Students who hold GED or HSED diplomas must have an official score report for the GED/HSED and a partial transcript from any regular high school attended sent directly to UW-Green Bay by the agency or school.

Transfer students must request that official transcripts be sent directly to UW-Green Bay from all post-secondary schools attended. Transfer students with fewer than 15 completed transferable credits must also have a high school transcript and official ACT/SAT scores sent directly to UW-Green Bay.

All students who have attended nursing, business, and vocational and technical colleges must submit those transcripts as well. (Transcripts from noncollege training schools attended as part of military service are not required.) Students must submit the records whether or not the work was completed and regardless of their desire to request UW-Green Bay credit for the courses.

Credits from Wisconsin Technical College System campuses may be accepted on a limited basis, in the areas of general education, science and math. In addition, many nursing programs have articulation agreements for students entering the UW-Green Bay Nursing Completion Program that may allow for transfer of additional credits. Credit transfer equivalencies between UW campuses and the WTCS campuses can be found at <http://tis.uwsa.edu>.

## Dates

Admission application priority dates are tentative and may change depending upon enrollment capacities. Applications submitted after priority dates will be considered as space permits. Applications typically are accepted after the priority dates listed below. Deadlines can be found for the current application term at [www.uwgb.edu/admissions/deadlines](http://www.uwgb.edu/admissions/deadlines).

### Fall Semester Priority Dates

- **New freshmen:** September 1\* through February 1
- **Transfer and reentry:** September 1\* through February 1

### Spring Semester Priority Dates

- **New freshmen:** August 1 through December 1
- **Transfer and reentry:** August 1 through December 1

### Summer Session Priority Dates

- **New freshmen:** September 1\* through February 1
- **Transfer and reentry:** September 1\* through February 1

\* Note that while we will accept applications on September 1, we comply with the UW System application processing “start date” of September 15. Students applying on September 1 will not be advantaged in any way over students who submit an application on September 15.

## Application Fee

A non-refundable application fee is required of anyone applying for admission as a new freshman and for most transfer students. The fee is \$44. The fee is not required if you last attended a UW Colleges (freshman/sophomore) campus as a degree-seeking student, or if you previously attended UW-Green Bay as a degree-seeking student. The application fee is subject to change based on the actions of the University of Wisconsin System.

## Placement Testing

**UW-Green Bay Admissions Office website:** [www.uwgb.edu/oira/testing/admissions/](http://www.uwgb.edu/oira/testing/admissions/)

### English: ACT or SAT Test Scores

Official ACT or SAT scores are required for:

- all new freshmen;
- all transfer and reentry students who have not satisfactorily completed at least one college-level course in English composition;
- transfer students who have completed fewer than 15 transferable credits at the time of application;
- special (non-degree) students who want to enroll in an English composition course;
- students wishing to be eligible for intercollegiate athletics.

ACT/SAT test scores are used to provide a basis for course level placement in English composition, and to provide benchmark data for assessing verbal and quantitative skills developed by freshmen and sophomores. The test score policy also complies with University of Wisconsin System Regents policy and may be used by the Admissions Office to support a student's admission to the University.

### Mathematics: Wisconsin Mathematics Placement Test

The Wisconsin Mathematics Placement Test (WMPT) is required for:

- all new freshmen;
- all transfer and reentry students who have not satisfactorily completed a college-level mathematics course;
- all special students who want to enroll in a mathematics course.

The WMPT is scheduled throughout the state from April and May through July. Students not able to take a regional test may take one of the residual tests scheduled on campus near the start of each term or during the semester. The test results determine the course level placement for mathematics courses. The test fee will normally be added to the student's initial fee billing.

## Transfer Students

**UW-Green Bay Transfer website:** <http://www.uwgb.edu/transfer/>

## Credit Evaluation

Transfer students will receive an official credit evaluation after admission to UW-Green Bay. The accreditation status of the previous institution(s) attended and the quality of student achievement are factors for determining course and credit transferability.

Credit evaluations will be started after all transcripts have arrived at UW-Green Bay and the student has been admitted. If a student is enrolled at another college when accepted at UW-Green Bay, a tentative evaluation will be completed and sent; the final evaluation will be held until a final transcript showing grades from the last term is received. Credit evaluations will be e-mailed directly to the UW-Green Bay student e-mail address.

## General Education Requirements

A student who transfers to UW-Green Bay must satisfy UW-Green Bay General Education requirements by completing or transferring courses which meet the UW-Green Bay General Education requirements that are in effect at the time of enrollment. Current UW-Green Bay General Education information can be found at <http://www.uwgb.edu/liberal-arts/general-ed/>.

Students who transfer to UW-Green Bay from a University of Wisconsin Colleges two-year campus after earning the Associate of Arts and Sciences degree (degree earned 1991 to present only) will be considered to have fulfilled UW-Green Bay's General Education requirements and will then be required to complete all degree and graduation requirements including the senior capstone requirement.

## Transferable Coursework

In order to be credited as transferable coursework, the course must be successfully ("D" grade or better) completed at an accredited college or university where the accreditation is recognized by the Council for Higher Education Accreditation (CHEA).

## Special Students

### (Students Not Seeking Degrees)

**UW-Green Bay Admissions Office website:** [www.uwgb.edu/admissions/](http://www.uwgb.edu/admissions/)

Students who want to take selected courses for credit but do not have the immediate intention of earning a degree at UW-Green Bay may enroll as special students. A special student is identified as a nonmatriculated student but may earn regular credit, which is permanently recorded for possible future use. Special students should be prudent in course selections and the number of credits accumulated. For example, an excessive number of electives may not apply to degree requirements if the student decides to change to degree-seeking status in the future. Certain opportunities, such as financial aid, for which degree-seeking students may be eligible, are not available to special students. Special students are subject to all normal academic regulations and Regent policies.

Normally, a student must have graduated from high school at least two years prior to the semester for which he or she is seeking special student admission. Exceptions are described in the categories below.

A student who has been, or who is likely to be, denied degree-seeking status for a given semester at UW-Green Bay may not enroll as a special student for that semester, and will be subject to review by the Admissions Review Committee when applying for subsequent semesters. Also, a student not in good standing at another college may be denied special student status at UW-Green Bay.

## Special Student Categories

### Special

Students who have not previously earned a baccalaureate degree and are not currently pursuing a degree at UW-Green Bay, are classified as specials, subject to the admission standards mentioned above.

### Post Baccalaureate or Graduate Special

These are students who have already earned a baccalaureate degree (or higher) and are enrolled in undergraduate-level or graduate-level coursework but are not pursuing a degree at UW-Green Bay.

### High School Special

Superior high school students may enroll for UW-Green Bay coursework while attending high school or during the summer.

High school specials must normally be seniors or juniors in high school and must demonstrate readiness for college-level work. Enrollment in UW-Green Bay courses requires the approval of the high school.

### Summer Session Only

Students enrolled at another college or university and current-year high school graduates who have been admitted to another college or university for the fall session may apply for Summer Session Only admission. Such admission carries no commitment for permission to register for the regular UW-

Green Bay academic year. Students from other colleges or universities must be eligible to continue at their respective institutions and are responsible for determining if their institutions will accept credits earned at UW-Green Bay.

## Application Procedures for Special Students

Nondegree-seeking students applying for admission should submit a Special Student Application, available online at [apply.wisconsin.edu](https://apply.wisconsin.edu) (<https://apply.wisconsin.edu>). (A paper version is available from the Admissions Office.) Often, the completed application is the only information required, but some situations will require the submission of additional records.

**High School Special students** must submit the following materials in addition to the application:

1. an official high school transcript;
2. the high school special student statement form, and;
3. the principal/counselor recommendation form.

(Forms "B" and "C" are available from the Admissions Office.)

**Youth Options students** must submit the items specified above for High School Special students, as well as the Wisconsin Department of Public Instruction Youth Options eligibility form. Those forms are available online at [www.uwgb.edu/admissions/youthoptions/](http://www.uwgb.edu/admissions/youthoptions/).

No application fee is required of special students.

## Other Admission Information

**UW-Green Bay Admissions Office website:** [www.uwgb.edu/admissions/](http://www.uwgb.edu/admissions/)

### Teacher Preparation

Students who expect to seek teaching licensure should review the section on Education in the Undergraduate Programs segment of this catalog.

A student who will earn teaching licensure should apply as a degree-seeking student.

### International Student Admission

UW-Green Bay annually enrolls students from about 30 countries and actively seeks the cultural diversification that international students contribute to the campus.

Admission for international students is based upon scholastic achievement and ability to use the English language. Note: Proof of ability to finance a UW-Green Bay education is also expected as part of the admission process for the purpose of issuing the necessary Certificate of Eligibility (Form I-20).

An international student must have a recognized certificate of completion from a secondary school and provide transcripts for all high school work. Transcripts will also be required from all post-secondary schools attended, if any. Since all UW-Green Bay coursework is conducted in English, each international applicant must provide evidence of English proficiency. For further information about meeting the English proficiency requirements at UW-Green Bay, go to [www.uwgb.edu/admissions/apply/international/](http://www.uwgb.edu/admissions/apply/international/) and click on "How to apply."

International students must be prepared to finance their education. A limited number of partial tuition remission scholarships exist. Because of the difficulty in gaining permission from the U.S. Immigration and Naturalization Service to work off campus, international students should not anticipate financing an education by income from employment. Limited on-campus work opportunities are available.

The Admissions Office at UW-Green Bay will issue the necessary Certificate of Eligibility (Form I-20) to admitted students.

Further information about international student admission is available at [www.uwgb.edu/admissions/apply/international/](http://www.uwgb.edu/admissions/apply/international/).

### Admissions Appeals

A student who has been denied admission may appeal that decision by letter to the director of Admissions. Students may contact the Office of Admissions for additional information.

## Academic Rules and Regulations

### DEFINITIONS

#### Class Standing

Class standing is determined by the number of earned credits a student has completed. In-progress credits do not count toward standing. Class levels are defined as:

Freshman	23 or fewer earned credits
Sophomore	24 to 53 earned credits
Junior	54 to 83 earned credits
Senior	84 or more earned credits

## Credit Hour

A credit hour is an amount of work represented in intended student learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester, or the equivalent amount of work over different amount of time, or the equivalent amount of work for other activities established by the University including but not limited to graduate work, internships, practica, studio work, and other academic work leading toward the awarding of credit hours.

## Credit Load

Total amount of credits a student is enrolled in at a given time in a term, for example, after initial registration or at the end of a semester. All credits, regardless of grading status, count toward credit load for certain purposes.

- **Maximum Credit Load:** A student in good standing may register for a maximum of 18 credits during any regular session of fall or spring semester and may register for a maximum of three credits in the January Interim session. A student who wants to enroll in more than 18 credits in a regular session must obtain written approval in advance from their faculty or academic advisor, using the credit overload petition before the first day of classes. Once approved, course(s) enrollment can be completed. Additional tuition and fees will apply.
- **Minimum Credit Load:** A specific minimum number of credits (excluding audit credits) that a student must carry to be eligible for certain programs and benefits. A student may register for or reduce a program below 12 credits in a semester with the understanding that for certain purposes he or she will be considered a part-time student. A student who reduces the credit load below 12 credits should check with the appropriate offices about the effect on financial aid, government benefits, athletic eligibility, health insurance coverage, and other programs with credit load eligibility limits.

## Educational Status

A **degree-seeking student** is enrolled in a program of study and plans to earn an Associate or Bachelor degree at the undergraduate level. A **special student** is not seeking a degree, but taking courses. Status impacts the admissions process and financial aid eligibility.

## Enrollment Status (full time, part time)

Enrollment status is based on number of credits enrolled. Status impacts financial aid eligibility and tuition/fees.

*Undergraduate level:* **full time** = 12 credits; **part time** = 6-11 credits; **less than part time** = 1-5 credits.

## Student

The University of Wisconsin-Green Bay defines a student as any individual who is currently enrolled, or was enrolled, in a credit bearing course at the University of Wisconsin-Green Bay.

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## Academic Forgiveness

Returning students, who have not earned a baccalaureate degree, and have not enrolled in any courses at UW-Green Bay for a minimum of three consecutive years prior to re-admission are eligible to request academic forgiveness. If *academic forgiveness* is granted, all grades received from courses taken three or more years before readmission will be excluded when calculating the student's cumulative grade point average on their academic transcript. All prior grades and quality points are not excluded in financial aid satisfactory academic progress calculations. Requests can be made through the Office of Academic Advising but must be made within 21 calendar days after the last day of final exams of the first semester after readmission.

## Academic Standing

All students are expected to maintain certain standards of academic achievement while enrolled at the University. The University is concerned about students whose academic achievements indicate that they are not meeting the expectations of their instructors, or who are experiencing other problems that may be interfering with their studies. An academic warning is an advisory notice that a student should take action to improve his or her performance. Probation and strict probation are formal academic actions that document unacceptable performance on the student's official transcript. An academic suspension action is taken when a student's achievement record indicates a need to interrupt enrolled status. Official academic actions on part-time students are withheld until they have attempted at least 12 credits at UW-Green Bay.

## Good Academic Standing

A student is in good academic standing if the student's cumulative resident grade point average is 2.00 or greater. Academic standing is reviewed at the end of each academic term. Every student is expected to maintain at least a 2.00 grade point average on all work carried in every term, including

summer session. Students who fail to maintain this minimum grade point average will face academic warning, probation, strict probation, or suspension, as specified.

### **Academic Probation**

A student in good standing will be placed on academic probation if he/she earns a cumulative grade point average of less than 2.00 but greater than 1.00. Academic probation is an advisory warning and is not subject to appeal.

### **Strict Probation**

A student will be allowed no more than two consecutive academic terms to remove him/herself from probation. If a student is on probation and earns a cumulative grade point average of less than 2.00 at the end of the probationary term, he/she will be placed on strict probation. A student on strict probation must regain good academic standing by the end of the strict probationary term in order to continue at the University.

### **Return to Good Standing**

A student on probation or strict probation will be cleared of probation at the end of any term in which a cumulative grade point average of 2.00 or better is attained.

### **Academic Suspension**

A student will be suspended from the University if he/she fails to achieve a cumulative grade point average of 2.00 at the end of a semester on strict probation or if his/her cumulative grade point average falls below 1.00.

### **Appeals Process**

Academic suspension status may be appealed to the provost's designee. Appeals must be filed within the deadline specified in the official suspension notification. The action of the provost's designee may be appealed to the Academic Actions Committee within the deadline specified in the official suspension notification. The decision of the Academic Actions Committee is final. A student who is allowed to continue as a result of an appeal will be placed on suspension waiver, and is subject to any special conditions that may be designated. An academic suspension provides time for a student to give careful thought to the circumstances that resulted in the suspension action. Suspension appeals must include a clear explanation of the circumstances that resulted in inadequate achievement, and a statement explaining how the student proposes to resolve those circumstances.

Students planning to appeal should consider:

- Are the relevant facts and dates clearly stated and documented?
- Are the extenuating circumstances cited of an unforeseeable nature?
- Are relevant recommendations from instructors included, if appropriate?

### **Readmission Following Academic Suspension**

Students who have been suspended may appeal for continued enrollment (see Appeals Process). For students who do not appeal for continued enrollment, or for whom the appeal is denied, the period of the first suspension shall be one regular semester. A student seeking readmission to the University after the expiration of the suspension must make formal application through the Admissions Office. Readmission cannot be guaranteed. A written request for readmission must accompany formal re-application to the University. A student who is readmitted after suspension will be placed on suspension waiver. If a student is readmitted and fails to regain good academic standing after re-admittance, a second suspension will be incurred. The second suspension shall be for a period of two regular semesters.

## **Grades and Related Policies**

### **Types of Credit**

#### **Attempted**

Number of credits a student originally enrolled in a specific session or term before grades are awarded.

#### **Degree Credits**

Credits earned that count toward the 120 credits required for a bachelor's degree. Academic support courses do not count toward degree completion; they may have a credit value assigned and may be acceptable for enrollment verification.

#### **Earned Credits**

Number of credits (excluding audit credits) where a final grade and quality points have been awarded which are used to calculate grade point average for the term and cumulatively. Courses that are graded with a letter or passing grade are calculated in this total; temporary grades of I = Incomplete or N = Not yet graded, are excluded.

## Grading System and Grade Points

Grade point averages indicate academic and class standing and are a means of measuring the quality of a student's academic work. Grade point averages are computed on a 4.0 basis. See chart for letter grade point values.

### Grade Point Values

Letter Grade		Grade Points Per Credit
A	Excellent	4.0
AB	Very Good	3.5
B	Good	3.0
BC	Above Average	2.5
C	Average	2.0
CD	Below Average	1.5
D	Poor	1.0
F	Unacceptable	0.0
WF	Unofficial Withdrawal	0.0
P	A "C" grade or better for undergraduate courses	No effect
NC	No credit, letter grade of less than "C"	No effect
U	Unsatisfactory Audit	No effect
S	Satisfactory Audit	No effect
N	No acceptable report from instructor – temporary grade	No effect until an acceptable grade submitted
I	Incomplete, temporary grade	No effect until removed
IP	In progress course	0.0
DR	Dropped Course	No effect
W	Withdrew	No effect
T	Exam (Passing grade level for test administered)	No Effect
(Grade assigned)	Academic Forgiveness Applied	No Effect/Example (F)

### Grade Point Average (GPA)

A numerical value derived from dividing the number of grade points earned by the number of credits attempted on a regular grade basis. P-NC, incomplete, grades removed by repeat and audit grades and transfer credits have no effect on grade point average. Only those courses attempted at UW-Green Bay are included in a student's grade point average. Transfer grades may be used to compute eligibility for admission to certain programs/majors.

### Example of GPA for a Semester

Course	Grade	Credits	Grade Points
ART 105	A	3	12
MATH 104	BC	4	10
GERMAN 102	C	4	08
ENG COMP 93	C	4	08
Total		11	30

**(An A is equal to 4 grade points, a B is equal to 3, and so forth. Three credits earning an A grade equals 12 points.)**

**30 divided by 11 equals 2.72 grade point average.**

### Cumulative Grade Point Average

Grade point average for all completed terms at UW-Green Bay. It is calculated by dividing the cumulative total grade points earned by the cumulative total grade point credits earned. Attempted courses where an F grade is received are also included in grade point calculations unless successfully repeated.

### Final Grades

Final grades are posted to the student's transcript and may be accessed via the Student Information System (SIS).

## Grades

Every student receives a grade from the instructor of a course at the end of a semester or session. **Instructors must enter grades on the course roster in SIS for processing by the Registrar's Office no later than 96 hours or four days after the final examination or last date of that individual course.**

## Grade Changes

Missing (N) grades or Incomplete (I) grades must be discussed and submitted via SIS, for permanent change to the student's academic record no later than the last day of classes in the following semester.

## Grade Appeals

Any student who is dissatisfied and wishes to appeal a particular course grade, must first contact the instructor who issued the grade. If the student is still dissatisfied, he or she may appeal further to the department chair. The chairperson, in turn, consults with the course instructor. If a student wishes to appeal further, he or she should contact the appropriate academic dean who will consult with the instructor and the appropriate chairperson.

## Other Grade Options

***Grade change options can only be submitted during the add/drop period of any course. After the add/drop period ends, grade option changes are no longer accepted.***<sup>1</sup>

### Pass/No Credit Enrollment (P/NC grade)

- No letter grade or grade points are earned. Credits taken for pass/no credit grade option may not satisfy certain academic requirements and include:
  - general education courses
  - courses used to fulfill English Composition and Writing Emphasis (WE) requirements
  - major and minor courses except those offered as P-NC only (includes student teaching, some Social Work courses, Business Administration/Accounting internship, etc.)
  - honors in the major (478) projects
  - independent study (298, 498) courses
- P/NC grading option is requested using the **Change Grading Basis** form and must be approved by faculty instructor.
- P/NC grading option is not reversible after add/drop deadline for the respective course.<sup>1</sup> Electives may be taken on a P-NC basis.
- For pass-no credit, grades of A, AB, B, BC, or C, are designated "pass." Grades of CD, D, F or WF are designated as NC or "no credit." An NC does not affect grade point average, nor does it add to earned credits.
- Students considering applying for graduate or professional schools or transferring to another undergraduate campus should keep in mind that P-NC grading may have an adverse effect on admission. Graduate and professional schools generally prefer letter grades because such grades enable them to better judge potential for academic success.

### Audit Enrollment (U/S grade)

- A student may elect to enroll in a course but not receive a letter grade.
- Audit grading option is requested using the **Change Grading Basis** form for degree seeking students and must be approved by faculty instructor.
- Audit grading option, is not reversible after add/drop deadline for the respective course.<sup>1</sup>
- Audit classes do not count toward degree requirements.
- Special student only auditors (course takers) should review and submit the **Audit Permission** form. Several conditions apply to audit only students and are highlighted in detail on the request form or Bursar information page. Click here ([http://www.uwgb.edu/bursar/feeInformation/GenInformation.htm#Audit\\_Student](http://www.uwgb.edu/bursar/feeInformation/GenInformation.htm#Audit_Student)) for more information.
- Students can audit any undergraduate courses except:
  - Independent study
  - Internships
  - Honors projects
  - Professional courses in Education, Nursing, and Social Work
  - Adult Degree courses open to BAS and BA-ILS majors only
  - Graduate-level courses
- **This grading option is not reversible after enrollment.**



- 1 **Add/Drop deadlines vary by length of course.**  
**14 week courses have a two week add period in which a new grading option can be requested and approved using the appropriate forms mentioned above.**  
**Courses of a shorter duration have shorter deadlines. Contact [gboss@uwgb.edu](mailto:gboss@uwgb.edu) if you are not able to find your course dates on the Registration calendar.** (<http://www.uwgb.edu/registrar/calendar/registration>)

## Incomplete grades (I grade)

- A student who is unable to take a final examination or meet other final coursework due to unusual circumstances may request an incomplete.
- The decision to allow an incomplete is entirely at the discretion of the instructor. It is not a right.
- If an incomplete is approved, the student is granted an extension of time to complete course requirements.
- An incomplete form must be submitted to the Registrar's office specifying the terms and conditions of completing the incomplete.
- Incomplete coursework must be finished no later than the end of the subsequent semester.
- If no final grade is awarded or the work is not completed, the temporary grade is lapsed to a final F grade.
- A student may file petition for an extension of the incomplete deadline if bona fide unanticipated extenuating circumstances prevented compliance with the deadline.
  - The student has serious physical or mental health problems which are documented by statements from a physician or professional counselor.
  - The student has had a death or serious illness in the immediate family and this is documented by a physician's statement.
  - The course instructor is on leave during the semester for removal.
- Once an incomplete grade is recorded for a course a student may not, under any circumstances, drop the course.

## Incomplete grades for Graduating Students

Students who complete their coursework in December, January (fall graduates), May (spring graduates) or August (summer graduates) must have all incomplete grades removed within 42 days following the end of the classes to have their degree conferred in that semester.

## Repeating a Course

### Repeating Courses for Credit

Courses can be repeated for credit only if they are officially designated as repeatable due to the nature of the course content. Performance courses in Music, Studio Arts courses or courses designated with differing topics are examples.

Courses that have been repeated for credit are recorded on the student's transcript with the phrase *Course has been Repeated* after the course listing on the transcript.

Faculty members may not grant individual waivers for students to repeat a course for credit when the course is not already designated as repeatable in the college catalog. Creating a repeatable course can be accomplished via the course/curriculum change processes on an annual basis.

### Repeating Courses to Improve a Grade

Courses can also be repeated to improve the grade received. If a course is repeated, the original attempt will still appear on the transcript with the grade earned. However, the grade received after the course is repeated will be used to determine the credit earned; attempted credits, grade points earned, and grade point average both for the term and cumulatively.

If a course is transferred in and then repeated at UW-Green Bay, the grade received when taken at UW-Green Bay will be used to determine the credits earned, attempted credits, grade points earned, and grade point average both for the term and cumulatively. The original transfer course and grade will no longer count toward degree requirements or total credits earned toward a degree. A course can only count once.

If a course is taken at UW-Green Bay, and then repeated at another institution and transferred to UW-Green Bay, the credits earned and grade received for the course taken at UW-Green Bay is still used to calculate the cumulative GPA, cumulative attempted credits, grade points earned and grade point average. The transfer course grade can, however be used to satisfy degree or course prerequisite requirements but the credits earned will not count toward the 120 credits required for a degree.

The University does not guarantee the right to retake any course. Courses may be deactivated, discontinued, or offered on a different schedule.

Based on federal regulations which went into effect July 1, 2011, some repeat coursework may be excluded when evaluating a student's credit load as it relates to federal and/or state financial aid eligibility. If not designated as a repeatable course, students may have aid reduced. In general, for financial aid purposes, students are allowed to repeat a course for which a passing grade was previously received **ONE** additional time, with financial aid eligibility. Students may repeat the course after that, but those attempts would not be eligible for funding by federal or state financial aid programs.

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## Absence and Attendance Policies

### Class Attendance

A student is expected to attend all class sessions. Failure to attend class does not alter academic or financial obligations. If, for any reason, a student is unable to attend classes during the first week of the semester, he or she is responsible for notifying the instructor(s), in writing, of the reason for nonattendance and indicate intentions to complete the course. Failure to attend classes during the first week of the semester may result in an administrative drop by the instructor. Registered students are obligated to pay all fees and penalties as listed on the fee schedule.

### Other Attendance Policies

- Absence due to inclement weather. For more information, see Attendance and the Weather (<http://www.uwgb.edu/provost/policies/storm.asp>).
- Absence for funerals or a death in the family. For more information, see Bereavement Policy ([http://www.uwgb.edu/deanofstudents/policies\\_procedures/students/studentbereavement.html](http://www.uwgb.edu/deanofstudents/policies_procedures/students/studentbereavement.html)).
- Student Religious Beliefs: In accordance with Board of Regents Policy (UWS 22.01), sincerely held religious beliefs shall be reasonably accommodated with respect to all examinations and other academic requirements. Questions should be directed to the Dean of Students; (920) 465-2152 [dosmail@uwgb.edu](mailto:dosmail@uwgb.edu)
- Absence due to Disability: UW-Green Bay is committed to providing accommodations for eligible individuals with documented disabilities as defined by federal and state law. Questions should be directed to Disability Services (920) 465-2481; Disability Services (<http://www.uwgb.edu/ds>)

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## Registration Changes (Cancellation, Add, Drop, Withdrawal)<sup>1, 2</sup>

- <sup>1</sup> A week is defined as 7 calendar days, beginning on the first day of a term or session, for the purposes of adds, drops or withdrawal deadlines.
- <sup>2</sup> Tuition refunds and/or withdrawal fees vary by length of course and date of transaction. Please consult the Fee deadlines ([www.uwgb.edu/bursar/feeinformation/index.htm](http://www.uwgb.edu/bursar/feeinformation/index.htm)) for the appropriate semester on the Bursar website for more details. Please note that financial deadlines are different from academic deadlines.

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## Cancellation

Cancellation of admission or enrollment *prior to the first day of the term*.

- If a student cancels their admission or enrollment they are not eligible to re-enroll in the subsequent semester.
- A student who cancels must re-apply for admission in a subsequent term.

## Course Adds<sup>1</sup>

Add one or more courses to a schedule and/or change course load.

### Course Adds During the First Two Weeks

*Semester-long courses at UW-Green Bay<sup>2</sup>*

Enrolled students are able to add individual regular, 14 week semester-long courses during the first two weeks of the fall/spring semester with no academic grade assigned and no financial penalty. Please check the Registration Calendar (<http://www.uwgb.edu/registrar/calendar/registration>) for these deadline dates.

## Late Course Adds<sup>1</sup>

*Semester-long courses at UW-Green Bay<sup>2</sup>*

- *Week 3 to week 9:* Students must submit a faculty-approved Late Add form. Students will be assessed a late add fee for each course.
- *Week 10 through the end of the term:* Students must submit a Late Add Petition, which must be approved by the Enrollment Review Committee. Petitions are only approved for extenuating circumstances. If approved, a late add fee is assessed for each course added, along with tuition and fees if applicable.

- <sup>1</sup> Summer sessions, January Interim and courses less than 14 weeks have shorter add deadlines. Please check the Registration Calendar (<http://www.uwgb.edu/registrar/calendar>) for summer or January interim course deadlines.
- <sup>2</sup> Some collaborative programs offered at UW-Green Bay have different start and end dates of the semester which means the add deadlines or financial deadlines may differ than described above.
- <sup>3</sup> If you are in a class with a different semester start date or one of less than 14 weeks please contact GBOSS (Green Bay One Stop Shop) to verify the add deadlines for any of these courses at [gboss@uwgb.edu](mailto:gboss@uwgb.edu) or call 920) 465-2567.

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## Course Drops <sup>1</sup>

Remove one or more courses from a schedule but remained enrolled in at least 1 credit.

### Course Drops During the First Two Weeks

*Semester-long courses at UW-Green Bay*

Enrolled students are able to drop *individual* regular 14 week semester-long courses during the first two weeks of the fall/spring semester with no academic grade assigned or financial penalty. Students in courses that are less than 14 weeks in duration can drop the course with no grade assigned, during the 1st week.

## Late Course Drops <sup>1</sup>

*Semester-long courses at UW-Green Bay*<sup>2</sup>

- *Week 3 to week 6:* Students can drop classes on their own and a DR (drop grade) will appear on the transcript.
- *Week 7 to the end of the term:* Drops are not allowed. Students must submit a Late Drop Petition which must be approved by the Enrollment Review Committee. Petitions are only approved for extenuating circumstances with supporting documentation. If a late drop is granted, students remain responsible for the tuition and fees assessed for the course as they received instruction and held a seat in the course.

*Courses less than 14 weeks in duration*<sup>2</sup>

- From the start of week two up the half the course duration (50%), a student may drop the course, and a DR (drop grade) will appear on the transcript.
- Following one day after half the course duration, a student must submit a Late Drop Petition which must be approved by the Enrollment Review Committee. Petitions are only approved for extenuating circumstances with supporting documentation. If a late drop is granted, students remain responsible for the tuition and fees assessed for the course as they received instruction and held a seat in the course.

Financial adjustments for course drops vary based on the effect on course load and timing of the drop. Consult the Bursar fee information for these dates.

- <sup>1</sup> Summer sessions, January Interim and courses less than 14 weeks have shorter drop deadlines. Please check the Registration Calendar (<http://www.uwgb.edu/registrar/calendar>) for summer or January interim course drop deadlines.
- <sup>2</sup> Some collaborative programs offered at UW-Green Bay have different start and end dates of the semester which means academic drop and financial refund deadline dates will differ than described above.
- <sup>3</sup> If you are in a class with a different semester start date or one of less than 14 weeks please contact GBOSS (Green Bay One Stop Shop) to verify the drop and/or financial deadlines for any of these courses at [gboss@uwgb.edu](mailto:gboss@uwgb.edu) or call 920) 465-2567.

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## Withdrawal From Courses <sup>1</sup>

Officially remove all courses from schedule; student is no longer enrolled.

Course Withdrawal During First Two Weeks:

*Semester-long courses at UW-Green Bay*<sup>2</sup>

Enrolled students are able to drop all their individual regular semester-long courses during the first two weeks of the fall/spring semester with no academic grade assigned. Withdrawal fees apply if a student withdraws from all courses in the first two weeks. See the billing and refund schedule link on the Bursar website for these fees and deadlines. Once a student drops to zero credits of enrollment, the Registrar's office withdraws the student from the semester.

## Late Withdrawal From Courses <sup>1</sup>

*Semester-long courses at UW-Green Bay*<sup>2</sup>

- *Week 3 to week 6:* Students can withdraw by dropping all their courses. DR (drop) grades will appear on the transcript for all courses and signifies that the student officially dropped the courses. If the student contacts the University to withdraw, the transaction will be completed by a staff member and W grades (withdrawal) are assigned for all courses on the transcript. Once a student drops to zero credits of enrollment, the Registrar's office withdraws the student from the semester.
- *Week 7 to week 12:* A student may withdraw (drop all courses) from the institution but must contact the Registrar's office to do so. W grades (withdrawal) will appear on the transcript for all courses and student is withdrawn for the semester.

- Week 13 to the end of the term: Withdrawals are not allowed. A Late Withdrawal Petition must be submitted and approved by the Enrollment Review Committee to withdraw after the deadline. Petitions are only approved for extenuating circumstances with supporting documentation.

#### *Courses less than 14 weeks in duration<sup>2</sup>*

- Start of week two up the half the course duration (50%) a student may drop all courses, and a DR (drop grade) will appear on the transcript for each enrollment, the Registrar's office will withdraw the student for the semester.
- Day after half the course duration, a Late Withdrawal Petition is submitted and must be approved by the Enrollment Review Committee. Petitions are only approved for extenuating circumstances with supporting documentation. If a late withdrawal is granted, students remain responsible for the tuition and fees assessed for the course as they received instruction and held a seat in the course.

The financial ramifications of withdrawal depend on when the withdrawal is done. View the billing and refund schedule for more information. Students who received financial aid for the term should contact UW-Green Bay's Financial Aid office to discuss potential financial aid ramifications.

- <sup>1</sup> Summer sessions, January Interim and courses less than 14 weeks have shorter withdrawal deadlines. Please check the Registration Calendar (<http://www.uwgb.edu/registrar/calendar>) for summer or January interim course withdrawal deadlines.
- <sup>2</sup> Some collaborative programs offered at UW-Green Bay have different start and end dates of the semester which means academic withdrawal and financial refund deadline dates will differ than described above.
- <sup>3</sup> If you are in a class with a different semester start date or one of less than 14 weeks please contact GBOSS (Green Bay One Stop Shop) to verify the withdrawal and/or financial deadlines for any of these courses at [gboss@uwgb.edu](mailto:gboss@uwgb.edu) or call 920) 465-2567.

## Petition Process for Late Drop or Withdrawal

- Petitions for late drops or withdrawals may be approved if one of these extenuating circumstances occurs and can be documented. The extenuating circumstance must occur within the semester the drop or withdrawal is being requested.
  - The student has serious mental or physical health problems verified by a statement from a physician or professional counselor.
  - There is a death or prolonged serious illness in the immediate family, verified by an obituary, a physician's statement, or other independent, official source.
  - The student receives orders being called to military service and cannot return for the semester. Supporting documentation is required.
- A student who attended any course in a given term for any length of time may not petition to drop a course or completely withdraw from the University under any circumstances after the end date of the semester.
- Petitions can be submitted online or in person to the Registrar's Office. All petitions with appropriate documentation will be evaluated and acted on in a timely manner by the Enrollment Review Committee.

## Courses and Related Policies

### Course-Related Policies

- **Course requisites:** Requisites indicate the minimum level of proficiency or background knowledge needed to successfully achieve course objectives. Requisites are enforced, included in the course descriptions and are indicated in the Schedule of Classes by the designation P.
- **Recommended courses:** Recommended courses are typically lower-level courses that students are advised to complete prior to enrolling in a course. They are advisory (i.e., not enforced), so students may enroll without completing prior recommended courses, but they do so at their own risk. Recommended prior courses are indicated in the course descriptions by the designation REC.
- **Course registration restrictions (other than requisites):** Course can have other restrictions preventing enrollment.
  - **Closed course:** no seats are available
  - **Reserves:** seats are held for a certain period of time for students in a certain class level or major/minor
  - **Time conflict:** two courses delivered at the same time
  - **Consent:** student must gain instructor or department consent to enroll

### Auditions

In performance courses requiring an audition, students are responsible for making their own arrangements for the audition before classes begin.

## Guidelines for Instructor-Approved Individualized Course Instruction

### Universal Expectations (for all experiences)

- Faculty approval is needed for courses that are individualized or coordinated by the student for a specific learning experience.
- Regular semester add and drop deadlines apply to these learning experiences.

- Approved forms must be submitted in the semester the learning experiences are taking place; students will not be retroactively added into these courses.
- Faculty must file syllabi and include appropriate information such as student learning outcomes, time commitments for work, additional requirements for placement including but not limited to criminal background checks, medical testing (such as a tuberculosis test) or other requirements outlined by a third party human resources department or site supervisor.
- The title and content of these individualized courses should not duplicate the title and content of existing courses.
- For each credit earned, 45 hours is the minimum number of hours to be dedicated to the learning experience over the course of the semester.
- A freshman or sophomore must have a minimum cumulative grade point average of 2.500 and a junior or senior must have a minimum of 2.000 to enroll in an independent study.
- Faculty members have the ability to override this GPA requirement and indicate as such on the approval form.

**Specific conditions or limitations apply to the type of learning experience in addition to the universal expectations.**

## **Honors in the Major (numbered XXX-478, 3 credits) <sup>1</sup>**

- Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
- The Honors in the Major project should be planned during the junior year.
- Students should enroll for Honors in the Major study during the first semester of registration with senior standing (84 or more degree credits) to ensure adequate time to complete it by graduation. Students should consult with sponsoring faculty during the junior year to determine possible special needs for library resources, equipment, supplies or field research.
- Eligibility requirements for Honors in the Major are:
  - Minimum grade point average of 3.500 for all courses required for the major, as indicated on the degree audit.
  - Minimum grade point average of 3.750 for all upper-level courses required for the major, as indicated on the degree audit.
  - Successful completion of the Honors in the Major project requirements.
- An Honor in the Major is different from All-University Honors. Rather than a required, cumulative grade point average, the grade point average is calculated on courses required for the major only and there is no residence requirement as with All-University Honors. An honor in the major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
- There is no residency requirement for Honors in the Major.
- Regular semester/session add and drop deadlines apply; no P-NC grading is permitted.

## **Independent Study**

(numbered XXX-298; XXX-498; XXX-798, variable 1-4 credits)

- Students can complete independent study courses at the lower or upper level.
- The student must prepare a statement of objectives and a list of readings and/or research projects that will fulfill the objectives.
- Independent study cannot be elected on audit or pass-no credit basis.
- Independent study may be taken only with a UW-Green Bay faculty member, instructional academic staff member (e.g., Lecturer), or visiting scholar.

## **Internship/Co-op**

(numbered XXX-497; XXX-797, variable 1-12 credits)

- Students will have a site supervisor and faculty supervisor for the work performed.
- All parties—student, faculty member, and site supervisor—should discuss and set expectations regarding the hours worked and performance feedback before the work begins. All parties must sign the internship proposal form.
- All additional requirements for employment (if any) should be identified prior to enrollment and an outline of how these will be met explained to the student intern.

## **Project/Research Assistantship**

(numbered XXX-496, variable 1-6 credits)

- The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term.

## **Teaching Assistantship**

(numbered XXX-495, 1-6 credits)

- The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives.

- Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship.

<sup>1</sup> A student who has met the All-University Honors Magna Cum Laude requirements (residency of 48 regularly graded credits taken at UW-Green Bay, and cumulative grade point average from 3.75 to 3.849) may qualify for Summa Cum Laude distinction and notation in the commencement program, diploma, and academic transcript if they also meet the criteria for the Honors in the Major. A student must have both in order to qualify. Honors in the major can be rescinded if the cumulative GPA calculations fall below defined parameters at the conclusion of the final semester.

## All-University Academic Honors

Acknowledgment of overall academic excellence at the university level upon completion of a degree and completing 48 regularly graded (not P-NC or audit graded courses or course grade points removed via Academic Forgiveness appeals process) credits taken in residence at UW-Green Bay.

Honors requirements for students who earn baccalaureate degrees are:

- Cum Laude designation requires a cumulative grade point average from 3.500 to 3.749;
- Magna Cum Laude designation requires a cumulative grade point average from 3.750 to 3.849;
- Summa Cum Laude designation requires a cumulative grade point average of 3.850 or higher; or a cumulative grade point average of 3.750 to 3.849 and eligibility for and successful completion of an honors in the major project.

Honors cords are issued and honors designation earned is denoted on the commencement program based on cumulative GPA earned in the semester prior to commencement ceremony.

Final honors designation is transcribed on the diploma issued and academic transcript record once all outstanding grades are issued.

There are no exceptions to these rules.

## Honors Recognition at Commencement

Students will be recognized at the commencement ceremony and honors cords provided if these two requirements are met: (1) the student's cumulative grade point average meets the minimum requirements at the end of the semester preceding their final term; and (2) graded credits in residence, including credits in progress during her/his final term at UW-Green Bay, total a minimum of 48.

## Dean's List

(also known as Semester Honors)

- Acknowledgement of academic excellence for a semester and awarded by the academic Dean.
- Dean's List semester honors are awarded on a semester basis.
- Semester Honors are denoted on the academic transcript in the specific semester awarded.
- Students are eligible to earn semester honors if they are enrolled in a minimum of 12 graded credits for the semester. If any courses of the 12 total credits are graded as pass/fail or audited basis a student would not be eligible for this designation.

## Official University Calendars

- **Academic Calendar:** Official calendar of activity for the school year (term dates, registration dates, breaks and holidays, etc.)
- **Administrative Calendar:** Calendar relating to curricular change, timetable, and personnel evaluations
- **Registration Calendars (Fall/January Interim/Spring/Summer):** Calendar of specific registration/academic action deadlines (add/drop/withdrawals, late registration, and fee implications of selected academic actions)
- **Final Exam Calendar:** Final exam schedule for the semester in session

## Earning a Second Bachelor's Degree at UW-Green Bay

Currently, UW-Green Bay has no dual degree programs. Students who have earned a first baccalaureate degree from UW-Green Bay may earn a second, distinct baccalaureate degree by completing a minimum of 30 additional undergraduate credits in residence subsequent to the awarding of the first degree and by satisfying all major requirements for the second degree, including a second minor if it required as part of the subsequent degree. Prior minors earned may not be used to satisfy this requirement. This 30 credit requirement includes a minimum of 15 credits that are used to satisfy the requirements for the major or minor declared as part of the second degree. The two bachelor's degrees earned must have different degree designations (e.g., BS, BA, BAS, BBA, BSN, BSW).

## Students with Two or More Majors

Students who declare two or more majors at the same time are granted only one baccalaureate degree and receive only one diploma upon graduation. If the majors declared have different degree designations, then the student must choose which degree they want to receive. All successfully completed majors are recorded on the student's academic transcript.

## Certificates

The Registrar's office transcribes certificates earned on an academic record when a student completes a degree. The Registrar's office does not transcribe a certificate on the academic record for students who do not earn a degree, but who complete a series of classes that are a part of a certificate program. Typically academic departments are responsible for printing and awarding a certificate of completion.

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## Other Fee-Related Policy Information

### Tuition Appeals

- Students who wish to appeal institutional charges may do so via the tuition appeal process.
- Students must pay for completed coursework (i.e., grades that are earned and are part of the academic record). Students appealing institutional charges for coursework for which grades have already been earned must first complete a late drop/withdrawal appeal. Tuition appeals are not reviewed unless the grade earned has been removed.

### 165 Credit Rule

- All resident undergraduate students who have accumulated 165 credits (or 30 credits more than required by their degree programs, whichever is greater) will be charged a surcharge, equal to 100 percent of the regular resident tuition, on credits beyond that level. For more information see Tuition Payment for Students Exceeding 165 Degree Credits. The Tuition Surcharge Waiver Form can be found on the Registrar's website.

## Emergency and Parental Notification Policy

University of Wisconsin-Green Bay faculty, staff and administrators are regularly asked to balance the interests of safety and privacy for individual students. While the Family Educational Rights and Privacy Act (FERPA) generally requires UWGB to ask for written consent or proof that the student is a tax dependent of the parents [and then disclosure may only be made to the parent(s)] before disclosing a student's personally identifiable information, it also allows colleges and universities to take key steps to maintain campus safety. UWGB may disclose information to appropriate individuals (e.g., parents/guardians, spouses, housing staff, health care personnel, police, etc.) without the student's consent, where disclosure is in connection with a health or safety emergency and knowledge of such information is necessary to protect the health or safety of the student or other individuals. Disclosures are also allowed among university employees where there is a "need to know," such as conducting transactions or sharing updates between departments with whom the student interacts.

### Health or Safety Emergency

In an emergency, FERPA permits UWGB officials to disclose, without student consent, education records which may include personally identifiable information from those records, to protect the health or safety of students or other individuals. At such times, records and information may be released to appropriate parties such as law enforcement officials, public health officials, and trained medical personnel. See <http://www.ed.gov/legislation/FedRegister/finrule/2008-4/120908a.pdf>. [34CFR part 99, 99.36(a)]. This exception to FERPA's general consent rule does not allow for a blanket release of personally identifiable information from a student's educational records. In addition, the Department of Education interprets FERPA to permit institutions to disclose information from education records to parents if a health or safety emergency involves their son or daughter.

### Disciplinary Records

While student disciplinary records are protected as education records under FERPA, there are certain circumstances in which disciplinary records may be disclosed without the student's consent. UWGB may disclose to an alleged victim of any crime of violence or non-forcible sex offense, if requested in writing, the final results of a disciplinary proceeding conducted by the institution against the alleged perpetrator of that crime, regardless of whether the institution concluded a violation was committed. UWGB may disclose to anyone — not just the victim — the final results of a disciplinary proceeding, if it determines that the student is an alleged perpetrator of a crime of violence or non-forcible sex offense, and with respect to the allegation made against him or her, the student has committed a violation of the UWGB's rules or policies. See <http://www.ed.gov/legislation/FedRegister/finrule/2008-4/120908a.pdf>. [34CFR part 99, 99.31(14)(i)(A)].

### Annual Security Report

The University of Wisconsin-Green Bay's annual security report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by UW-Green Bay; and on public property within, or immediately adjacent to and accessible from, the campus. This report also includes institutional policies concerning campus security, such as policies concerning sexual assault, and other matters. Fire safety statistics for student housing are included. You can obtain a copy of this report by contacting the Office of Public Safety or by accessing the following website: <http://www.uwgb.edu/publicsafety/documents/AnnualSecurityReport.pdf>

## Law Enforcement Unit Records

Police investigative reports created and maintained by UWGB Police and Public Safety are not considered education records subject to FERPA. Accordingly, UWGB may disclose information from law enforcement unit records to anyone, including outside law enforcement authorities, without student consent, and once an investigation is complete.

## Disclosure to Parents

When a student enters UWGB, including those less than 18 years of age, all rights afforded to parents under FERPA will transfer to the student. However, FERPA also provides ways in which UWGB may share information with parents without the student's consent. For example:

- UWGB may disclose education records to parents if the student is a dependent for income tax purposes. Parents must provide tax returns or other information sufficient to show dependency for tax purposes.
- UWGB may disclose education records to parents if a health or safety concern involves their son or daughter.
- UWGB may inform parents if the student who is under age 21 has violated any law or its policy concerning the use or possession of alcohol or a controlled substance.
- A UWGB official may generally share with a parent, information that is based on that official's personal knowledge or observation of the student (e.g., a faculty or staff member's observation of a student's behavior).

## FERPA and Student Health Information

The UWGB Counseling and Health Center may share student medical treatment records with parents and/or others under the health and safety circumstances described above. These records may otherwise be protected by other federal and state medical records privacy laws and can only be shared once a medical release form is signed by the student.

## FERPA and Student and Exchange Visitor Information System (SEVIS)

FERPA permits UWGB to comply with information requests from the Department of Homeland Security (DHS) and its Immigration and Customs Enforcement Bureau (ICE) in order to comply with the requirements of SEVIS.

## Transfer of Education Records

Finally, FERPA permits UWGB officials to disclose any and all education records, including disciplinary records, to another institution at which the student, seeks or intends to enroll or is currently enrolled.

## Contact Information

For further information about FERPA, please contact the UWGB FERPA website at <http://www.uwgb.edu/ferpa/>.

### More information regarding FERPA can be obtained from the:

Family Policy Compliance Office -  
U.S. Department of Education  
400 Maryland Ave. S.W.  
Washington, DC 20202-5920  
202-260-3887  
<http://www.ed.gov/policy/gen/guid/fpc/>

# University Testing Requirements

## English and Mathematics Course Placement

In order to determine mathematics and English competency and appropriate course placement for students, the University uses the Wisconsin Mathematics Placement Test (WMPT) and the English portion of the American College Testing Program (ACT) or the Verbal/Critical Reading portion of the SAT.

The following students are required to complete the WMPT and ACT or SAT requirement:

- all new freshmen;
- all transfers and re-entry students who have not satisfactorily completed a college-level course in English or mathematics;
- special students wishing to enroll in English or mathematics courses;
- students wishing to be eligible for intercollegiate athletics (only the ACT is needed).

UW-Green Bay also requires official ACT or SAT scores to comply with UW System Board of Regents policy and to provide admissions information on new freshmen.



## ACT Registration

Potential students interested in taking the ACT test should visit the ACT website at <http://www.actstudent.org/>.

UW-Green Bay is not a test site location; please check the website for test center locations nearest to your community. **Be sure you indicate UW-Green Bay (code number 4688) as an institution to receive your score report.** Materials to help review and prepare for the ACT test may be purchased in the Phoenix Bookstore on campus and elsewhere. For more information, call ACT at (319) 337-1270.

## English Placement

ACT English scores or SAT Verbal/Critical Reading scores are used to determine if a student has satisfied UW-Green Bay's English competency requirement. The following cut-off scores are used to place students in the most appropriate course based on their current level of English performance.

International students with TOEFL scores of 600 or above (paper-based), 250 or above (computer-based) or 100 or above (internet-based) are exempted from English as a Second Language (ESL) placement testing at UW-Green Bay and may be placed in ENG COMP 100. International students admitted with lower TOEFL scores will take the Wisconsin English Placement Test upon their arrival; they will then be placed in appropriate English courses based on their English test scores.

**ACT English score: 16 or lower**

**OR**

**SAT Verbal/Critical Reading score: 440 or lower**

The student must take ENG COMP 93 followed by ENG COMP 100. Both courses are required and must be successfully completed by the end of the second semester at UW-Green Bay. NOTE: ENG COMP 93 is a remedial course and may not count as degree credits. It is graded on a Pass-No Credit (P-NC) basis. Students referred to ENG COMP 93 who feel they have been improperly placed may retake the ACT test.

**ACT English score: 17-24**

**OR**

**SAT Verbal/Critical Reading score: 450-580**

The student must take ENG COMP 100 by the end of the second semester at UW-Green Bay. Students referred to ENG COMP 100 who feel they have been improperly placed have an additional option: the College Level Examination Program (CLEP) College Composition. Registration for CLEP exams can be made through Testing Services at UW-Green Bay. A passing score on the College Composition exam will satisfy the English competency requirements and earn three degree credits.

**ACT English score: 25-31**

**OR**

**SAT Verbal/Critical Reading score: 590-750**

These scores satisfy UW-Green Bay's English competency requirement. The student is eligible to enroll in ENG COMP 105. (Some majors and minors require ENG COMP 105 or its equivalent.)

**ACT English score: 32 or higher**

**OR**

**SAT Verbal/Critical Reading score: 760 or higher**

These scores satisfy UW-Green Bay's English competency requirement. These scores also satisfy the ENG COMP 105 requirement for some majors and minors.

## Math Placement

The Wisconsin Mathematics Placement Test (WMPT) serves as the primary instrument for determining both mathematics competency and appropriate course placement for new freshmen and transfer students who have not successfully completed a college-level mathematics course. Information on costs, testing dates and sites is available from the Office of Testing Services.

Students must meet with an adviser to learn their WMPT score and course placement. New freshmen will be advised at the time of their Registration and Resources session. Continuing, re-entry and transfer students should seek assistance from the Academic Advising Office.

Students classified as new freshmen who do not complete the WMPT will not be allowed to register for mathematics classes, or for courses with college-level mathematics as a prerequisite, during their first semester.

Students must complete the UW-Green Bay Mathematics Competency before the completion of 30 earned and in progress credits. Students who fail to complete the Mathematics Competency by this point will have any future enrollments cancelled until proof is submitted that the competency is completed. The MATH 94 course does not count as degree credits. It is graded on a Pass-No Credit (P-NC) basis.

Students who have not taken the WMPT and have not satisfactorily completed and transferred in a college-level course in mathematics have the prerogative of enrolling in MATH 94.

## **UW-Green Bay General Education Assessment Program**

UW-Green Bay is launching a new General Education Program in 2014 and will be developing a new system of assessment for it. That system should be in place by Fall 2014.

### **Assessment of the Major Program**

All students are required to participate in the assessment of their major program of study. The assessment may take the form of a comprehensive exam, in-course assignment, portfolio, survey, interview, or any other specified means of evaluating the quality and effectiveness of the academic program.

## **Planning an Academic Program**

- Planning an Undergraduate Academic Program (p. 34)
- Components of a Degree (p. 35)
- General Education Program (p. 38)
- Interdisciplinary Majors, Minors, and Areas of Emphasis (p. 58)
- Disciplinary Majors, Minors, and Areas of Emphasis (p. 60)

## **Planning an Undergraduate Academic Program**

### **Degree Residency Requirement**

- A minimum of 30 credits must be earned at UW-Green Bay.
- The minimum credit residency requirement for a major is 15 credits.
- The minimum credit residency requirement for a minor is 9 credits.
- One half of the upper-level requirements for any major, minor, etc., must be earned at UW-Green Bay.

A student who has completed the junior year and meets the residency requirement, but cannot complete the senior year in residence for reasons of employment transfer, marriage, or other cause, can graduate from UW-Green Bay. Appropriate courses taken at another university as a substitute for senior year residence at UW-Green Bay can be selected with an adviser. Selected courses must then be approved by the chairperson of the student's major and, if necessary, by the appropriate academic dean.

**Note:** Credits earned at the undergraduate and graduate level through the Credit for Prior Learning process (e.g., standardized examinations, challenge exams, portfolio development) may not be used to satisfy UW-Green Bay Degree Residency Requirements for degrees, major and minors.

### **Guidelines for Majors and Minors**

- Majors will consist of a minimum of 30 credits with at least 24 credits at the upper level.
- Minors will consist of a minimum of 18 credits with at least 12 credits at the upper level. The three exceptions are Music, Art, and Theatre.
- The official transcript will include only type of degree and date earned; major(s), minor(s), and All-University Honors, Honors in the Major and any Semester Honors achieved. Certificates are only transcribed if a degree is earned.
- Diplomas will carry only the degree (B.A., B.S., etc.) and All-University Honors if achieved.
- Overlapping of requirements for majors, minors, and professional programs with the general education requirements is permitted.
- Majors, minors and professional programs may declare that their requirements are valid for a maximum period of five years following the final approval of a student's academic plan.

### **Earning a Second Bachelor's Degree at UW-Green Bay**

Currently, UW-Green Bay has no dual degree programs. Students who have earned a first baccalaureate degree from UW-Green Bay may earn a second, distinct baccalaureate degree by completing a minimum of 30 additional undergraduate credits in residence subsequent to the awarding of the first degree and by satisfying all major (and minor if required of the second degree/major program) requirements for the second degree. This 30-credit requirement includes a minimum of 15 credits that are used to satisfy the requirements for the major and minor (if required) as part of the second degree. The two bachelor's degrees earned must have different degree designations (e.g., BS, BA, BAS, BBA, BSN, BSW).

### **Students with Two or More Majors**

Students who declare two or more majors at the same time are granted only one baccalaureate degree and receive only one diploma upon graduation. If the majors declared have different degree designations, then the student must choose which degree they want to receive. All successfully completed majors are recorded on the student's academic transcript.

## Certificates

The Registrar's Office transcribes certificates earned on an academic record when a student completes a degree. The Registrar's Office does not transcribe a certificate on the academic record for students who do not earn a degree, but who complete a series of classes that are a part of a certificate program. Typically academic departments are responsible for printing and awarding a certificate of completion.

## Components of a Degree

### Component I

#### General Education, Competency and Graduation Requirements

39 – 48 credits

#### Requirements

0 – 6 credits of English competency

0 – 3 credits of mathematics competency

Four course writing emphasis

1-4 credits of a Capstone course (may also be required in major/minor) which is taken in Senior year or in the last semester

36 credits of breadth (plus a minimum of a 3 credit Capstone course):

- 3 credits of first year seminar
- 3 credits of fine arts
- 6 credits of humanities
- 6 credits of social sciences
- 3 credits of biological sciences
- 3 credits of natural sciences
- 3 credits of quantitative literacy
- 3 credits of sustainability perspective
- 3 credits of ethnic studies perspective
- 3 credits of global culture

### Component II

#### Supporting Courses

*Credits vary with major; they are included in the credit total of Component III*

Preparatory and methods courses appropriate to the major (usually supporting courses).

### Component III

#### Major

30-48 credits minimum

Students choose one of these:

- Interdisciplinary major (minimum of 30 credits in the major; 24 of these credits must be at the upper level)  
**OR**
- Disciplinary major (minimum of 30 credits in the major; 24 of these credits must be at the upper level)  
plus  
Interdisciplinary minor (minimum of 18 credits; 12 of these credits must be at the upper level)  
**OR**
- Professional degree (either Bachelor of Science Nursing, Bachelor of Social Work, or Bachelor of Music)

## Component IV

### Other Options

*Credits vary, depending on the number of credits earned in Components I, II and III*

Courses to bring total credits to minimum of 120 degree credits required for graduation such as:

- Minor or additional minor in disciplinary or interdisciplinary program
- Other specific professional program
- Electives
- Other possibilities to be designed with an adviser

### Minimum Requirement

*120 degree credits*

Students must have a cumulative 2.0 grade point average on UW-Green Bay courses and a 2.0 grade point average for each major and/or minor. Certain majors, minors, and professional programs may have higher minimum grade point graduation requirements.

### The Major and Minor

UW-Green Bay offers both disciplinary (p. 60) and interdisciplinary (p. 58) majors. A more thorough explanation of these terms can be found in A UW-Green Bay Education. (p. 14)

The choice of major determines whether a minor is required. For example, the field of Environmental Policy and Planning is an interdisciplinary major. It has two areas of emphasis: public policy and planning. The University's academic program emphasizes the importance of interdisciplinary learning, and requires students to choose either an interdisciplinary major or minor. Since the Environmental Policy and Planning major is interdisciplinary, the student will have fulfilled the requirement of interdisciplinary study. A minor is then optional, rather than required.

The student who has chosen a disciplinary major – for example, Chemistry – follows a different path. With a major in a discipline, he or she is required to choose a minor in a program that is interdisciplinary – for example, in Human Biology.

There are exceptions. These include programs that are offered only as majors or only as minors and professional studies such as Business Administration and Education which have distinctive structures. The student will want to carefully study the individual program descriptions.

### Areas of Emphasis

Students can develop significant specializations by choosing areas of emphasis offered by many UW-Green Bay majors and minors. These can lead to specific and productive career fields. Examples of areas of emphasis include gallery/museum practices, nutritional sciences/dietetics, law and justice studies, and photography. Students can learn about other areas of emphasis by reading descriptions of related majors and minors in this catalog, and by consulting advisers.

### Teacher Preparation

The University offers an interdisciplinary major in Education for students seeking pre-school and elementary-level teaching licensure and an interdisciplinary minor in Education for students who desire licensure at the secondary level. Teacher preparation is offered for the following age levels:

- Early Childhood (Ages 0-8)
- Early Childhood through Middle Childhood (ages 0-11)
- Middle Childhood through Early Adolescence (Ages 6-12/13)
- Early Adolescence through Adolescence (Ages 10-21)
- Early Childhood through Adolescence (All Ages)

### Preprofessional Programs

The University offers a wide variety of preprofessional programs. Some programs may be completed within one or two years while others require the completion of a four-year baccalaureate program prior to transfer to the professional school. For information, contact the Academic Advising Office. The preprofessional programs are:

- Chiropractic (p. 241)
- Dentistry (p. 241)
- Dietetics (p. 237)
- Engineering (p. 239)

- Law (p. 242)
- Medicine (p. 241)
- Nursing (p. 243)
- Optometry (p. 241)
- Pharmacy (p. 243)
- Physical Therapy (p. 241)
- Physician Assistant (p. 241)
- Veterinary Medicine (p. 246)

## Cooperative Program

- Engineering (p. 238) (cooperative program with UW-Milwaukee)

## Certificates and Other Programs

- Coaching (Athletics) (p. 244)
- Emergency Management (<http://catalog.uwgb.edu/undergraduate/preprofessional-programs-certificates/emergencymanagement>)
- Environmental Sustainability and Business (p. 240)
- Military Science (ROTC) (p. 242)
- Nonprofit Management (p. 242)
- Professional Accounting (p. 244)
- Teaching English as a Second Language (p. 245)

## Associate of Arts and Sciences Degree

UW-Green Bay offers a two-year program of study leading to an associate of arts and sciences (AAS) degree. Requirements for the degree include completion of:

- most of the general education requirements for the baccalaureate degree (student does not complete two upper-level writing or Capstone courses);
- the math and English proficiency and competency requirements;
- 33 credits of “breadth” courses which includes the general education requirements;
- a 12-credit area of study as defined by an academic adviser;
- 60 degree credits (AAS candidates are not eligible for honors programs);
- 15 credits earned “in residence”;
- a minimum grade point average of 2.0.

Students should contact the Academic Advising Office as early as possible for assistance in planning their programs to assure that all degree requirements are fulfilled.

## Academic Advising

The academic advising process at UW-Green Bay is designed to maximize students' educational potential through communication and information exchanges with an adviser; these exchanges are ongoing, individualized, multifaceted, and the responsibility of both student and adviser. Advising is assumed to be a developmental, decision-making process that assists students in the clarification of their life/career goals and the completion of educational plans for the realization of those goals. The adviser serves as a facilitator and coordinator of student learning through educational planning and academic progress review, and an agent of referral to other campus programs and services as necessary. Academic advising is a joint effort of Academic Affairs and Student Affairs.

All first year students, new transfer students and undeclared students will be assigned to a professional adviser in the Office of Academic Advising until the point in which the student officially declares the major. Upon official declaration of the major, the student will be assigned to a faculty adviser for that major. The student's assigned adviser and contact information is available in the student's SIS (Student Information System) account.

Contact the Office of Academic Advising (<http://www.uwgb.edu/advising>) for more information about academic advisers and the advising process.

## Declaration of Major

All students are encouraged to discuss a major with faculty representatives as early as possible in their undergraduate career. All students are required to have a complete academic plan (e.g., interdisciplinary major or minor, area of emphasis) on file with the Registrar's Office by the time they have a total of 45 credits earned. The academic plan form is available online at <http://www.uwgb.edu/registrar>.

## General Education Program

***Courses that are listed in two or more general education designations will only count in one requirement area. (e.g., ANTHRO 100 is listed as being approved as Global Culture (GC) and Social Sciences (SOC), however it will only count once, as GC or SOC. If questions contact gboss@uwgb.edu***

### Purpose

The UWGB General Education Program supports the University's Select Mission by providing an interdisciplinary, problem-focused educational experience that prepares students to think critically and address complex issues in a multicultural and evolving world.

To that end, the UWGB General Education Program will help to develop liberally educated students and facilitate their living in an ever changing world by:

1. Introducing students to interdisciplinary education;
2. Providing knowledge that includes disciplinary breadth;
3. Working with students to develop an understanding of critical social problems;
4. Supporting the development of important academic skills including communication, critical thinking, problem solving and quantitative and information literacy.

The general education program gives students an opportunity to strengthen academic skills, broaden intellectual horizons, develop and explore new academic interests, reflect on personal values, and build a foundation of knowledge for future course work and lifelong learning.

### Learning Outcomes

All students who graduate from UW-Green Bay should achieve the following content and skill-based learning outcomes listed here.

Students will:

- have an understanding of the importance of interdisciplinary thinking and why it can be a more effective way to understand and address problems and issues. Students will develop the ability to think in an interdisciplinary way with the ability to incorporate two or more disciplinary perspectives when addressing a problem particular within the context of their major/minor program.
- have the ability to exercise problem solving skills such as problem identification and analysis, solution formulation and implementation, and assessment.
- determine the nature and extent of the information needed; access needed information effectively and efficiently; evaluate information and its sources critically; use information effectively to accomplish a specific purpose; and understand the many economic, legal, and social issues surrounding the use of information and access and use information ethically and legally.
- have the ability to communicate effectively through listening, speaking, reading, and writing.
- understand the role quantitative thinking plays in solving communicating information about real world problems and relationships such as interpreting and communicating quantitative information from graphs, tables, schematics, etc.
- have a fundamental understanding of the causes and effects of stereotyping and racism and an appreciation of cultural diversity in the United States.
- have a fundamental understanding of contemporary global issues and problems related to multiculturalism and ethnocentrism, through the study of beliefs, values, and ways of life in a country other than the United States.
- be able to critically analyze the concept of sustainability and its three pillars (economic security, social equity, and ecological responsibility) and the way this concept is applied and used (adopted from UW-Oshkosh).
- have a fundamental understanding of one or more of the fine arts including an understanding of the nature and functions of art and ways of evaluating art.
- become familiar with the humanities' unique ways of understanding major events and movements in Western and world civilizations by critically examining a range of literary, philosophical, and other cultural texts produced by those movements, thereby helping to clarify individual and social values within cultures and the implications of decisions made on the basis of those values. Students' understanding will be demonstrated by their ability to analyze and produce complex forms of expression.
- have a fundamental understanding of natural/physical and biological sciences including major concepts, principles and theories as well as an understanding of the natural/biological sciences' unique ways of knowing.
- have a fundamental understanding of the unique ways of knowing within the social sciences as well as major concepts, impacts, and values of at least two of the designated social sciences.

### General Education Requirements <sup>1</sup>

All students must complete the general education requirements. Depending upon the courses chosen, as well as the need to reach competency in mathematics and writing, students may take between 37-47 general education credits and additional math or writing credits if needed to meet

competency or major requirements. Courses taken to fulfill general education requirements may also be used simultaneously to fulfill requirements in the major, minor or certificate programs.

**Students who enter UW-Green Bay with 15 or more transfer credits will be following a different set of General Education Requirements. Please refer to these requirements here** ([http://www.uwgb.edu/catalog/undrgrad/2013\\_14/planning/general-education](http://www.uwgb.edu/catalog/undrgrad/2013_14/planning/general-education)).

<b>First Year Seminar</b>	3
<b>Fine Arts</b>	3
<b>Social Sciences</b>	6
<b>Humanities</b>	6
<b>Biological Sciences</b>	3
<b>Natural Sciences</b>	3-5
<b>Sustainability Perspective</b>	3-4
<b>Ethnic Studies Perspective</b>	3
<b>Global Culture</b>	3
<b>Quantitative Literacy</b>	3-7
<b>Capstone (taken in last semester as part of degree completion)</b>	1-4
Total Credits	37-47

## Graduation Requirements

### Capstone Experience (1-4 credits) <sup>2</sup>

This could be either a classroom seminar experience or another integrative/culminating experience such as an internship/field experience/honors project that again addresses the campus' interdisciplinary perspective and also has a problem focus. By its very nature, the experience will also have an important communication element. They will all address:

- Communication
- Interdisciplinarity

### Mathematical and English Competency Requirement: 0-9 credits

All students must demonstrate competency in mathematics and written English. The University uses the Wisconsin Mathematics Placement Test (WMPT) and the English portion of the ACT or the verbal portion of the SAT to assess these competencies. Students may need to take additional courses to satisfy this general education requirement.

### Writing Emphasis Requirement: 4 courses

All students must complete four Writing Emphasis courses. At least two of these courses must be at the upper level. Courses taken to fulfill the Writing Emphasis may also be used, simultaneously, to fulfill any other requirements.

### UW System Ethnic Studies Requirement: 3 credits

Ethnic Studies is a UW System requirement for all students. Course acceptable for use in UWGB General Education Ethnic Studies Requirement.

- <sup>1</sup> Contact the Office of Academic Advising for information or assistance on all matters pertaining to general education requirements, including advising. See [www.uwgb.edu/lasdean/gened/](http://www.uwgb.edu/lasdean/gened/) for general education information and petitions.
- <sup>2</sup> Students who enter the institution meeting the general education requirements are not exempt from completing the Capstone course requirement. This course is required to be completed at the end of your academic major program.

## Biological Sciences - Complete one course

### Learning Outcomes

- Explain central principles and theories of biological sciences.
- Describe the inquiry process through which the sciences approach the development of understanding of the physical world.

#### Biological Sciences

3

BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes
BIOLOGY 203	Principles of Biology: Organisms, Ecology, and Evolution
GEOSCI 203	Geologic Evolution of the Earth
HUM BIOL 102	Introduction to Human Biology

HUM BIOL/WOST 206	Fertility, Reproduction, and Family Planning
HUM BIOL 217	Human Disease and Society
HUM BIOL 405	Biotechnology and Ethics
NUT SCI 242	Food and Nutritional Health
NUT SCI 260	Childhood Obesity: Challenges and Solutions

## Capstone - complete one course

Capstone courses are taken in the last semester as part of the degree completion requirements at UW Green Bay. The capstone course is not waived for students entering with an earned block of credit, articulation agreement or for earning a prior degree.

## Learning Outcomes

- This could be either a classroom seminar experience or another integrative/culminating experience such as an internship/field experience/honors project that again addresses the campus' interdisciplinary perspective and also has a problem focus. By its very nature, the experience will also have an important communication element. They will all address:
  - Interdisciplinarity
  - Problem-focused
  - Communication

### Capstone

1-4

CHEM 331	Biochemistry Laboratory
COMM 477	Social Media Strategies
ENV SCI 467	Capstone in Environmental Science
ET 400	Co-op/Internship in Engineering Technology
ET 410	Capstone Project
HISTORY 480	Seminar in History
ILS 400	Capstone: Synthesis and Assessment of Learning
MUSIC 480	Capstone Project
NURSING 490	Synthesis for Nursing Practice
POL SCI 480	Senior Seminar/Capstone in Political Science
PSYCH 494	Senior Capstone in Psychology
PU EN AF 430	Seminar in Ethics and Public Action

## Ethnic Studies Perspective - complete 3 credits

### Learning Outcome

Within the context of the United States:

- Identify ethnic, racial, and cultural contrasts and similarities.
- Describe ethnic/racial relations from multiple perspectives.
- Articulate causes and effects of stereotyping and racism.

### Ethnic Studies Perspective

3

EDUC 206	Cultural Images in Materials for Children and Adolescents
ENGLISH/FNS 336	American Ethnic Literature
ENGLISH 344	African American Literature
FNS 210	American Indians In Film
FNS 211	First Nations Service Learning
FNS 216/UR RE ST 216	Native American Landscapes:Imagined and Lived Spaces
FNS 224	First Nations and The Sacred
FNS 225	Introduction to First Nations Studies: The Tribal World
FNS 226	Introduction to First Nations Studies: Social Justice
FNS 301	Oneida Language I
FNS 302	Oneida Language II
FNS 303	Oneida Language III
FNS 304	Oneida Language IV



FNS 305	Oneida Language V
FNS 306	Oneida Language VI
FNS/WOST 360	Women and Gender in First Nations Communities
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory
FNS 393	First Nations and Education Policy
HISTORY 207	Introduction to African-American History
HISTORY 309	United States Immigration History
HISTORY 340	Topics in African American History
HMONG 200	Introduction to Hmong Culture
HMONG 250	Hmong Community Research
HUM DEV 346	Culture, Development and Health
HUM STUD 213	Ethnic Diversity and Human Values
HUM STUD 351	Interdisciplinary Themes in Humanistic Studies
MUSIC 363	Jazz History
NURSING 492	Special Topics in Nursing (Topic #9 only)
NUT SCI 302	Ethnic Influences on Nutrition
PSYCH 305	Psychology of Stereotyping and Prejudice
PSYCH 440	Multicultural Counseling and Mental Health
SOC WORK 330	Understanding Diversity, Challenging Oppression: A Service Learning Course for Helping Professionals
SOC WORK 380	Cross Cultural Diversity and the Helping Professions
SOCIOL 203	Ethnic and Racial Identities
UR RE ST 323	Asian American Communities in the United States
UR RE ST 324	Latino Communities in the United States

## Fine Arts - complete 3 credits

### Learning Outcomes

- Demonstrate technical skills and knowledge necessary to create or perform artistic functions, or understand the historical and cultural sources of an art form.
- Develop historical, stylistic and cultural and aesthetic knowledge necessary to create art or performance in diverse styles within the genre of the course or demonstrate knowledge of terminology and techniques used in an art form to be conversant about such issues.
- Synthesize skills and contextual knowledge in performance/creation of artistic works and knowledge of societal influences on art, or demonstrate knowledge of art as an agent of cultural expression and societal change and to use appropriate methods to evaluate quality of an art form.

#### Fine Arts

3

ART 102	History of the Visual Arts: Ancient to Medieval
ART 103	History of the Visual Arts II: Renaissance to Modern
ART 106	Design Methods
ART 107	Two-Dimensional Design
ART 202	Concepts and Issues of Modern Art
ART 230	Introduction to Ceramics
ART 260	Introduction to Jewelry/Metals
ART 320	Art and Ideas
ART 376	Modern American Culture
ART 378	World Art
ART/WOST 379	Women, Art and Image
ART 380	History of Photography
ARTS MGT 256	Understanding the Arts
MUS APP 127	Instrumental Lessons 1
MUS APP 128	Instrumental Lessons 2
MUS APP 227	Instrumental Lessons 3
MUS APP 228	Instrumental Lessons 4
MUS APP 327	Instrumental Lessons 5

MUS APP 328	Instrumental Lessons 6
MUS APP 427	Instrumental Lessons 7
MUS APP 428	Instrumental Lessons 8
MUSIC 121	Survey of Western Music
MUSIC 224	Popular Music Since 1955
MUSIC/WOST 272	Women in the Performing Arts
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC/THEATRE 364	Musical Theatre History
MUS ENS 142	Jazz Combo
MUS ENS 143	Jazz Ensemble
MUS ENS 144	Woodwind Ensemble
MUS ENS 145	Brass Ensemble
MUS ENS 146	Contemporary Percussion Ensemble
MUS ENS 150	New Music Ensemble
MUS ENS 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera Studio
MUS ENS 188	Hand Drumming Ensemble
MUS ENS 241	Concert Band
MUS ENS 261	Concert Choir
MUS ENS 262	Chorale
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Studio
MUS ENS 388	Hand Drumming Ensemble
MUS ENS 441	Concert Band
MUS ENS 461	Concert Choir
MUS ENS 462	Chorale
THEATRE 110	Introduction to Theatre Arts
THEATRE 128	Jazz Dance I <sup>2</sup>
THEATRE 131	Acting I
THEATRE 137	Ballet I <sup>2</sup>
THEATRE 141	Period Dance Styles <sup>2</sup>
THEATRE 142	American Musical Theatre Dance <sup>2</sup>
THEATRE 145	Modern Dance I <sup>2</sup>
THEATRE 161	Tap Dance I <sup>2</sup>
THEATRE 190	First Year Applied Musical Theatre Voice
THEATRE 219	UWGB Meets NYC: New York Theatre Trip
THEATRE 228	Jazz Dance II <sup>2</sup>
THEATRE 261	Tap Dance II <sup>2</sup>
THEATRE 309	Theatre History I: Greek to Elizabethan
THEATRE 310	Theatre History II: 17th Century to Realism
THEATRE 311	Theatre History III: 20th Century and Contemporary

THEATRE 335	Production Practicum: Crews <sup>2</sup>
THEATRE 336	Production Practicum: Performance <sup>2</sup>
THEATRE 338	Production Practicum: Scene Shop <sup>2</sup>
THEATRE 339	Production Practicum: Costume Shop <sup>2</sup>
THEATRE 340	Dance History

- <sup>1</sup> Ensembles (University Chorus, Concert Choir, Collegium Musicum, Chorale, Symphonic Band, Jazz Combo, Wind Ensembles, New Music, Jazz, Vocal, Vocal Jazz, Woodwind, Brass, Guitar, Hand Drumming, and Contemporary Percussion)
- <sup>2</sup> Repeatable courses. For purposes of general education, each course may be repeated for a total of 3 credits.

## First Year Seminar - complete 3 credits

### Learning Outcomes

- This class provides an “on ramp” to the University and its interdisciplinary mission. It is a content-based class that incorporates communication skills (written and oral) as part of the learning pedagogy. While the content of these courses will vary, they must all address at an introductory level:
  - Interdisciplinarity
  - Communication
  - Information Literacy

### First Year Seminar <sup>1</sup>

3

ART 198	First Year Seminar
COMM 198	First Year Seminar
COMM SCI 198	First Year Seminar
DJS 198	First Year Seminar
EDUC 198	First Year Seminar
ENV SCI 198	First Year Seminar
FNS 198	First Year Seminar
GEOSCI 198	First Year Seminar
HUM BIOL 198	First Year Seminar
HUM DEV 198	First Year Seminar
HUM STUD 198	First Year Seminar
ILS 198	Integrative Leadership Seminar I
INFO SCI 198	First Year Seminar
MUSIC 198	First Year Seminar
NUT SCI 198	First Year Seminar
PHYSICS 198	First Year Seminar
POL SCI 198	First Year Seminar
PSYCH 198	First Year Seminar
PU EN AF 198	First Year Seminar
THEATRE 198	First Year Seminar
UR RE ST 198	First Year Seminar

- <sup>1</sup> Occasionally other courses in the catalog are scheduled and offered with additional content to meet the learning outcomes of the first year seminar - these specific class sections are eligible to meet this category

## Global Culture - complete 3 credits

### Learning Outcomes

- Demonstrate an understanding of individual and cultural differences outside the United States.
- Explore issues that cross geographic, political, economic and/or socio-cultural boundaries outside the United States.
- Engage in informed judgments about global issues and problems as a socially responsible citizen.

### Global Culture

3

ANTHRO 100	Varieties of World Culture
ANTHRO 304	Family, Kin, and Community

ANTHRO 320	Myth, Ritual, Symbol and Religion
ART 378	World Art
BUS ADM 421	International Marketing
ENGLISH 218	World Literatures I
ENGLISH 219	World Literatures II
ENGLISH/WOST 338	World Literatures
FRENCH 202	Intermediate French Language II
FRENCH 225	Intermediate French Conversation and Composition
FRENCH 325	Advanced French Conversation and Composition
FRENCH 329	Representative French Authors
GEOG 102/UR RE ST 102	World Regions and Concepts: A Geographic Analysis
GERMAN 202	Intermediate German Language II
GERMAN 225	Intermediate German Conversation and Composition
GERMAN 325	Advanced German Conversation and Composition
GERMAN 329	Representative German Authors
HUM BIOL 217	Human Disease and Society
HUM BIOL 331	Science and Religion: Spirit of Inquiry
HUM DEV 342	Cross Cultural Human Development
HUM STUD/HISTORY 103	World Civilizations I
HUM STUD/HISTORY 104	World Civilizations II
HUM STUD 326	Non-Western Religions
HUM STUD/GERMAN 356	German Culture
HUM STUD/GERMAN 357	German Cinema
HUM STUD 360	Globalization and Cultural Conflict
HUM STUD 383	Perspectives on Human Values: The Contemporary World
HUM STUD 384	Perspectives on Human Values in Other Cultures
MUSIC 362	World Music
NURSING 492	Special Topics in Nursing
	Topic: Global Health Ethics and Human Rights
	Topic: Global Aspects of Healthcare
	Topic: Nursing Diagnosis Across the Globe
NUT SCI 250	World Food and Population Issues
PHILOS 216	Introduction to Asian Philosophy
PHILOS 351	Happiness and the Good Life
POL SCI 100	Global Politics and Society
POL SCI 351	Comparative Politics
POL SCI 353	Politics of Developing Areas
PSYCH 350	Psychology and Culture
PU EN AF 102	Environment and Society
SPANISH 202	Intermediate Spanish Language II
SPANISH 225	Composition and Conversation I
SPANISH 226	Composition and Conversation II
SPANISH 328	Introduction to Cultural Studies in Spanish
SPANISH 329	Representative Spanish and Latin American Authors
UR RE ST 201	City Life and Globalization
UR RE ST 320	Cities in Cinema
XXX 299 Travel Course	
XXX 499 Travel Course	

**One of the following will also fulfill the Global Culture Requirement:**

- Completion of a second year (fourth semester) of a foreign language at the college level or any upper-level foreign language course. Courses with variable content (course numbers 498, 497, and 478) may be approved for the Global Culture Requirement by use of a special petition.

- Completion of any approved UW-Green Bay trip outside the United States (XXX-499), or study abroad programs, or student exchange programs outside the United States. Students should contact the Office of International Education for information on opportunities in international education.
- Substantial living experience outside the United States. The Associate Dean of the College of Liberal Arts and Sciences or a designate may grant a waiver of the Global Culture Requirement to students based on documented prior experience living in a foreign country.
- Students who are not residents of the United States will satisfy the requirement by residence and course work at UW-Green Bay.

## Humanities - complete 6 credits

### Learning Outcomes

- Describe the humanities unique ways of understanding major events and movements in Western and world civilizations.
- Critically examine a range of literary, philosophical, and other cultural texts produced by those movements.
- Articulate individual and social values within cultures and the implications of decisions made on the basis of those values.
- Analyze and produce complex forms of expression.

#### Humanities <sup>1</sup>

6

ENGLISH 101	Introduction to Film
ENGLISH 104	Introduction to Literature
ENGLISH 212	Introduction to Creative Writing
ENGLISH 214	Introduction to English Literature I
ENGLISH 215	Introduction to English Literature II
ENGLISH 216	Introduction to American Literature I
ENGLISH 217	Introduction to American Literature II
ENGLISH 218	World Literatures I
ENGLISH 219	World Literatures II
ENGLISH 333	Literary Themes
FNS 210	American Indians In Film
FNS 224	First Nations and The Sacred
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory
FNS/HUM STUD 385	Perspectives on Human Values: First Nations
FNS 391	First Nations Studies Seminar
FNS 392	First Nations Justice and Tribal Governments
FNS 393	First Nations and Education Policy
HISTORY 205	American History to 1865
HISTORY 206	History of the United States from 1865 to the Present
HISTORY 207	Introduction to African-American History
HISTORY/HUM STUD 101	Foundations of Western Culture I
HISTORY/HUM STUD 102	Foundations of Western Culture II
HISTORY/HUM STUD 103	World Civilizations I
HISTORY/HUM STUD 104	World Civilizations II
HUM STUD 201	Introduction to the Humanities I
HUM STUD 202	Introduction to the Humanities II
HUM STUD 340	Science Fiction & Fantasy
HUM STUD 341	Science Fiction Film
HUM STUD 351	Interdisciplinary Themes in Humanistic Studies
HUM STUD 360	Globalization and Cultural Conflict
HUM STUD 383	Perspectives on Human Values: The Contemporary World
PHILOS 101	Introduction to Philosophy
PHILOS 102	Contemporary Ethical Issues
PHILOS 103	Logic and Reasoning
PHILOS 212	Philosophy, Religion, and Science
PHILOS 213	Ancient Philosophy
PHILOS 214	Early Modern Philosophy

PHILOS 216	Introduction to Asian Philosophy
PHILOS 217	Introduction to the Philosophy of Religion
PHILOS 220	Environmental Ethics
PHILOS 351	Happiness and the Good Life
PHILOS 401	Plato and Aristotle
WOST 205/ENGLISH 206	Women in Literature

<sup>1</sup> Complete two courses (6 credits) in at least two different course prefixes

## Natural Sciences - complete one course

### Learning Outcomes

- Explain central principles and theories of physical sciences.
- Describe the inquiry process through which the sciences approach the development of understanding of the physical world.

#### Natural Sciences

3-5

CHEM 102	Why There is Antifreeze In Your Toothpaste
CHEM 211	Principles of Chemistry I
ENV SCI 102	Introduction to Environmental Sciences
ENV SCI/PHYSICS 141	Astronomy
GEOSCI 102	Natural Hazards
GEOSCI 202	Physical Geology
GEOSCI/GEOG 222	Ocean of Air: Weather and Climate
INFO SCI 201	Information, Computers and Society
PHYSICS 103	Fundamentals of Physics I
PHYSICS 180	Concepts of Physics
PHYSICS 201	Principles of Physics I

## Quantitative Literacy - complete one course

### Learning Outcomes

- Demonstrate competence in performing quantitative operations.
- Communicate and validate quantitative information based on various contexts.
- Apply analytical concepts and operations to aid in problem-solving, decision-making, and other real-world problems.
- Interpret models such as formulas, graphs, tables, or schematics, and draw inferences from them.

#### Quantitative Literacy

3-7

ACCTG 300	Introductory Accounting
BUS ADM 216	Business Statistics
CHEM 211	Principles of Chemistry I
COMM SCI 205	Social Science Statistics
ECON 203	Micro Economic Analysis
GEOG 210	Human Geography and Concepts
HIMT 350	Statistics for Healthcare
MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
MATH 260	Introductory Statistics
PHILOS 103	Logic and Reasoning
PHYSICS 103	Fundamentals of Physics I
PHYSICS 201	Principles of Physics I
POL SCI 318	Political Behavior
POL SCI 480	Senior Seminar/Capstone in Political Science
THEATRE 221	Stagecraft
THEATRE 223	Computer Applications for Theatre

THEATRE 323	Stage Lighting
MUSIC 116 & MUSIC 253 & MUSIC 254	Ear Training and Sight Singing II and Music Theory III and Music Theory IV

## Social Sciences - complete 6 credits

### Learning Outcomes

- Explain how social scientists practice critical thinking.
- Demonstrate the ability to address problems using tools and methods exemplary of the social sciences.
- Demonstrate an understanding of appropriate content in two different social sciences.

#### Social Sciences <sup>1</sup>

6

ANTHRO 100	Varieties of World Culture
ANTHRO 304	Family, Kin, and Community
ANTHRO 320	Myth, Ritual, Symbol and Religion
BUS ADM 202	Business and Its Environment
BUS ADM 206	Law and the Individual
COMM SCI 301	Foundations for Social Research
DJS 101	Introduction to Democracy and Justice Studies
DJS 204	Freedom and Social Control
DJS/WOST 241	Introduction to Women's & Gender Studies
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
ECON/DJS 307	History of Economic Thought
EDUC 206	Cultural Images in Materials for Children and Adolescents
GEOG 102/UR RE ST 102	World Regions and Concepts: A Geographic Analysis
GEOG 210	Human Geography and Concepts
HUM DEV 102	Introduction to Human Development
POL SCI 100	Global Politics and Society
POL SCI 101	American Government and Politics
POL SCI 202/PU EN AF 202	Introduction to Public Policy
POL SCI 301/PU EN AF 301	Environmental Politics and Policy
POL SCI 353	Politics of Developing Areas
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy
POL SCI 480	Senior Seminar/Capstone in Political Science
PSYCH 102	Introduction to Psychology
PU EN AF 102	Environment and Society
PU EN AF 215	Introduction to Public Administration
SOC WORK 250	You and Your Future: Living and Working in an Aging Society
SOC WORK 275	Foundations of Social Welfare Policy
SOC WORK 375	Family Principles and Patterns
SOCIOL 202	Introduction to Sociology
SOCIOL 203	Ethnic and Racial Identities
UR RE ST 100	Introduction to Urban Studies
UR RE ST 201	City Life and Globalization
UR RE ST 205	Urban Social Problems
UR RE ST 320	Cities in Cinema
UR RE ST 324	Latino Communities in the United States

<sup>1</sup> Complete two courses (6 credits) in at least two different course prefixes

## Sustainability Perspective - complete one course

### Learning Outcomes

- Think critically regarding the array and implications of alternative sustainability definitions.
- Discuss sustainability within the context of ethical decision-making on earth.
- Describe why actions to achieve sustainability are complex and contentious.
- Express how failure to achieve sustainability has implications for human survival and planetary life quality over time.
- Engage in informed judgments about sustainability and problems as socially responsible citizens.

### Sustainability Perspective

3-4

ENGLISH 333	Literary Themes
ENV SCI 260	Energy and Society
ENV SCI 301	Radioactivity: Past, Present, and Future
ENV SCI 303	Environmental Sustainability
ENV SCI/ET 334	Solid Waste Management
ENV SCI 460	Resource Management Strategy
ENV SCI 469	Conservation Biology
ET 420	Lean Processes
FNS 210	American Indians In Film
FNS 216/UR RE ST 216	Native American Landscapes:Imagined and Lived Spaces
FNS 224	First Nations and The Sacred
FNS 225	Introduction to First Nations Studies: The Tribal World
FNS 226	Introduction to First Nations Studies: Social Justice
FNS 301	Oneida Language I
FNS 302	Oneida Language II
FNS 303	Oneida Language III
FNS 304	Oneida Language IV
FNS 305	Oneida Language V
FNS 306	Oneida Language VI
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory
FNS/HUM STUD 385	Perspectives on Human Values: First Nations
FNS 391	First Nations Studies Seminar
FNS 392	First Nations Justice and Tribal Governments
FNS 393	First Nations and Education Policy
HISTORY 220	American Environmental History
HUM BIOL/WOST 206	Fertility, Reproduction, and Family Planning
HUM BIOL 217	Human Disease and Society
HUM BIOL 405	Biotechnology and Ethics
NUT SCI 250	World Food and Population Issues
PHILOS 220	Environmental Ethics
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy
PSYCH 380	Conservation Psychology
PSYCH 390	Environmental Psychology
PU EN AF 102	Environment and Society
PU EN AF 323	Sustainable Land Use
PU EN AF 324	Transitioning to Sustainable Communities



# Biological Sciences

## Biological Sciences - Complete one course

### Learning Outcomes

- Explain central principles and theories of biological sciences.
- Describe the inquiry process through which the sciences approach the development of understanding of the physical world.

#### Biological Sciences

3

BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes
BIOLOGY 203	Principles of Biology: Organisms, Ecology, and Evolution
GEOSCI 203	Geologic Evolution of the Earth
HUM BIOL 102	Introduction to Human Biology
HUM BIOL/WOST 206	Fertility, Reproduction, and Family Planning
HUM BIOL 217	Human Disease and Society
HUM BIOL 405	Biotechnology and Ethics
NUT SCI 242	Food and Nutritional Health
NUT SCI 260	Childhood Obesity: Challenges and Solutions

# Capstone

## Capstone - complete one course

Capstone courses are taken in the last semester as part of the degree completion requirements at UW Green Bay. The capstone course is not waived for students entering with an earned block of credit, articulation agreement or for earning a prior degree.

### Learning Outcomes

- This could be either a classroom seminar experience or another integrative/culminating experience such as an internship/field experience/honors project that again addresses the campus' interdisciplinary perspective and also has a problem focus. By its very nature, the experience will also have an important communication element. They will all address:
  - Interdisciplinarity
  - Problem-focused
  - Communication

#### Capstone

1-4

CHEM 331	Biochemistry Laboratory
COMM 477	Social Media Strategies
ENV SCI 467	Capstone in Environmental Science
ET 400	Co-op/Internship in Engineering Technology
ET 410	Capstone Project
HISTORY 480	Seminar in History
ILS 400	Capstone: Synthesis and Assessment of Learning
MUSIC 480	Capstone Project
NURSING 490	Synthesis for Nursing Practice
POL SCI 480	Senior Seminar/Capstone in Political Science
PSYCH 494	Senior Capstone in Psychology
PU EN AF 430	Seminar in Ethics and Public Action

# Ethnic Studies Perspective

## Ethnic Studies Perspective - complete 3 credits

### Learning Outcome

Within the context of the United States:

- Identify ethnic, racial, and cultural contrasts and similarities.
- Describe ethnic/racial relations from multiple perspectives.
- Articulate causes and effects of stereotyping and racism.

**Ethnic Studies Perspective**

3

EDUC 206	Cultural Images in Materials for Children and Adolescents
ENGLISH/FNS 336	American Ethnic Literature
ENGLISH 344	African American Literature
FNS 210	American Indians In Film
FNS 211	First Nations Service Learning
FNS 216/UR RE ST 216	Native American Landscapes:Imagined and Lived Spaces
FNS 224	First Nations and The Sacred
FNS 225	Introduction to First Nations Studies: The Tribal World
FNS 226	Introduction to First Nations Studies: Social Justice
FNS 301	Oneida Language I
FNS 302	Oneida Language II
FNS 303	Oneida Language III
FNS 304	Oneida Language IV
FNS 305	Oneida Language V
FNS 306	Oneida Language VI
FNS/WOST 360	Women and Gender in First Nations Communities
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory
FNS 393	First Nations and Education Policy
HISTORY 207	Introduction to African-American History
HISTORY 309	United States Immigration History
HISTORY 340	Topics in African American History
HMONG 200	Introduction to Hmong Culture
HMONG 250	Hmong Community Research
HUM DEV 346	Culture, Development and Health
HUM STUD 213	Ethnic Diversity and Human Values
HUM STUD 351	Interdisciplinary Themes in Humanistic Studies
MUSIC 363	Jazz History
NURSING 492	Special Topics in Nursing (Topic #9 only)
NUT SCI 302	Ethnic Influences on Nutrition
PSYCH 305	Psychology of Stereotyping and Prejudice
PSYCH 440	Multicultural Counseling and Mental Health
SOC WORK 330	Understanding Diversity, Challenging Oppression: A Service Learning Course for Helping Professionals
SOC WORK 380	Cross Cultural Diversity and the Helping Professions
SOCIOL 203	Ethnic and Racial Identities
UR RE ST 323	Asian American Communities in the United States
UR RE ST 324	Latino Communities in the United States

## Fine Arts

### Fine Arts - complete 3 credits

#### Learning Outcomes

- Demonstrate technical skills and knowledge necessary to create or perform artistic functions, or understand the historical and cultural sources of an art form.
- Develop historical, stylistic and cultural and aesthetic knowledge necessary to create art or performance in diverse styles within the genre of the course or demonstrate knowledge of terminology and techniques used in an art form to be conversant about such issues.
- Synthesize skills and contextual knowledge in performance/creation of artistic works and knowledge of societal influences on art, or demonstrate knowledge of art as an agent of cultural expression and societal change and to use appropriate methods to evaluate quality of an art form.

**Fine Arts**

3

ART 102	History of the Visual Arts: Ancient to Medieval
ART 103	History of the Visual Arts II: Renaissance to Modern
ART 106	Design Methods
ART 107	Two-Dimensional Design
ART 202	Concepts and Issues of Modern Art
ART 230	Introduction to Ceramics
ART 260	Introduction to Jewelry/Metals
ART 320	Art and Ideas
ART 376	Modern American Culture
ART 378	World Art
ART/WOST 379	Women, Art and Image
ART 380	History of Photography
ARTS MGT 256	Understanding the Arts
MUS APP 127	Instrumental Lessons 1
MUS APP 128	Instrumental Lessons 2
MUS APP 227	Instrumental Lessons 3
MUS APP 228	Instrumental Lessons 4
MUS APP 327	Instrumental Lessons 5
MUS APP 328	Instrumental Lessons 6
MUS APP 427	Instrumental Lessons 7
MUS APP 428	Instrumental Lessons 8
MUSIC 121	Survey of Western Music
MUSIC 224	Popular Music Since 1955
MUSIC/WOST 272	Women in the Performing Arts
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC/THEATRE 364	Musical Theatre History
MUS ENS 142	Jazz Combo
MUS ENS 143	Jazz Ensemble
MUS ENS 144	Woodwind Ensemble
MUS ENS 145	Brass Ensemble
MUS ENS 146	Contemporary Percussion Ensemble
MUS ENS 150	New Music Ensemble
MUS ENS 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera Studio
MUS ENS 188	Hand Drumming Ensemble
MUS ENS 241	Concert Band
MUS ENS 261	Concert Choir
MUS ENS 262	Chorale
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Studio
MUS ENS 388	Hand Drumming Ensemble
MUS ENS 441	Concert Band

MUS ENS 461	Concert Choir
MUS ENS 462	Chorale
THEATRE 110	Introduction to Theatre Arts
THEATRE 128	Jazz Dance I <sup>2</sup>
THEATRE 131	Acting I
THEATRE 137	Ballet I <sup>2</sup>
THEATRE 141	Period Dance Styles <sup>2</sup>
THEATRE 142	American Musical Theatre Dance <sup>2</sup>
THEATRE 145	Modern Dance I <sup>2</sup>
THEATRE 161	Tap Dance I <sup>2</sup>
THEATRE 190	First Year Applied Musical Theatre Voice
THEATRE 219	UWGB Meets NYC: New York Theatre Trip
THEATRE 228	Jazz Dance II <sup>2</sup>
THEATRE 261	Tap Dance II <sup>2</sup>
THEATRE 309	Theatre History I:Greek to Elizabethan
THEATRE 310	Theatre History II: 17th Century to Realism
THEATRE 311	Theatre History III: 20th Century and Contemporary
THEATRE 335	Production Practicum: Crews <sup>2</sup>
THEATRE 336	Production Practicum: Performance <sup>2</sup>
THEATRE 338	Production Practicum: Scene Shop <sup>2</sup>
THEATRE 339	Production Practicum: Costume Shop <sup>2</sup>
THEATRE 340	Dance History

<sup>1</sup> Ensembles (University Chorus, Concert Choir, Collegium Musicum, Chorale, Symphonic Band, Jazz Combo, Wind Ensembles, New Music, Jazz, Vocal, Vocal Jazz, Woodwind, Brass, Guitar, Hand Drumming, and Contemporary Percussion)

<sup>2</sup> Repeatable courses. For purposes of general education, each course may be repeated for a total of 3 credits.

## First Year Seminar

### First Year Seminar - complete 3 credits

#### Learning Outcomes

- This class provides an “on ramp” to the University and its interdisciplinary mission. It is a content-based class that incorporates communication skills (written and oral) as part of the learning pedagogy. While the content of these courses will vary, they must all address at an introductory level:
  - Interdisciplinarity
  - Communication
  - Information Literacy

#### First Year Seminar <sup>1</sup>

3

ART 198	First Year Seminar
COMM 198	First Year Seminar
COMM SCI 198	First Year Seminar
DJS 198	First Year Seminar
EDUC 198	First Year Seminar
ENV SCI 198	First Year Seminar
FNS 198	First Year Seminar
GEOSCI 198	First Year Seminar
HUM BIOL 198	First Year Seminar
HUM DEV 198	First Year Seminar
HUM STUD 198	First Year Seminar
ILS 198	Integrative Leadership Seminar I

INFO SCI 198	First Year Seminar
MUSIC 198	First Year Seminar
NUT SCI 198	First Year Seminar
PHYSICS 198	First Year Seminar
POL SCI 198	First Year Seminar
PSYCH 198	First Year Seminar
PU EN AF 198	First Year Seminar
THEATRE 198	First Year Seminar
UR RE ST 198	First Year Seminar

- <sup>1</sup> Occasionally other courses in the catalog are scheduled and offered with additional content to meet the learning outcomes of the first year seminar - these specific class sections are eligible to meet this category

## Global Culture

### Global Culture - complete 3 credits

#### Learning Outcomes

- Demonstrate an understanding of individual and cultural differences outside the United States.
- Explore issues that cross geographic, political, economic and/or socio-cultural boundaries outside the United States.
- Engage in informed judgments about global issues and problems as a socially responsible citizen.

#### Global Culture

3

ANTHRO 100	Varieties of World Culture
ANTHRO 304	Family, Kin, and Community
ANTHRO 320	Myth, Ritual, Symbol and Religion
ART 378	World Art
BUS ADM 421	International Marketing
ENGLISH 218	World Literatures I
ENGLISH 219	World Literatures II
ENGLISH/WOST 338	World Literatures
FRENCH 202	Intermediate French Language II
FRENCH 225	Intermediate French Conversation and Composition
FRENCH 325	Advanced French Conversation and Composition
FRENCH 329	Representative French Authors
GEOG 102/UR RE ST 102	World Regions and Concepts: A Geographic Analysis
GERMAN 202	Intermediate German Language II
GERMAN 225	Intermediate German Conversation and Composition
GERMAN 325	Advanced German Conversation and Composition
GERMAN 329	Representative German Authors
HUM BIOL 217	Human Disease and Society
HUM BIOL 331	Science and Religion: Spirit of Inquiry
HUM DEV 342	Cross Cultural Human Development
HUM STUD/HISTORY 103	World Civilizations I
HUM STUD/HISTORY 104	World Civilizations II
HUM STUD 326	Non-Western Religions
HUM STUD/GERMAN 356	German Culture
HUM STUD/GERMAN 357	German Cinema
HUM STUD 360	Globalization and Cultural Conflict
HUM STUD 383	Perspectives on Human Values: The Contemporary World
HUM STUD 384	Perspectives on Human Values in Other Cultures
MUSIC 362	World Music
NURSING 492	Special Topics in Nursing
Topic: Global Health Ethics and Human Rights	

Topic: Global Aspects of Healthcare

Topic: Nursing Diagnosis Across the Globe

NUT SCI 250	World Food and Population Issues
PHILOS 216	Introduction to Asian Philosophy
PHILOS 351	Happiness and the Good Life
POL SCI 100	Global Politics and Society
POL SCI 351	Comparative Politics
POL SCI 353	Politics of Developing Areas
PSYCH 350	Psychology and Culture
PU EN AF 102	Environment and Society
SPANISH 202	Intermediate Spanish Language II
SPANISH 225	Composition and Conversation I
SPANISH 226	Composition and Conversation II
SPANISH 328	Introduction to Cultural Studies in Spanish
SPANISH 329	Representative Spanish and Latin American Authors
UR RE ST 201	City Life and Globalization
UR RE ST 320	Cities in Cinema
XXX 299	Travel Course
XXX 499	Travel Course

**One of the following will also fulfill the Global Culture Requirement:**

- Completion of a second year (fourth semester) of a foreign language at the college level or any upper-level foreign language course. Courses with variable content (course numbers 498, 497, and 478) may be approved for the Global Culture Requirement by use of a special petition.
- Completion of any approved UW-Green Bay trip outside the United States (XXX-499), or study abroad programs, or student exchange programs outside the United States. Students should contact the Office of International Education for information on opportunities in international education.
- Substantial living experience outside the United States. The Associate Dean of the College of Liberal Arts and Sciences or a designate may grant a waiver of the Global Culture Requirement to students based on documented prior experience living in a foreign country.
- Students who are not residents of the United States will satisfy the requirement by residence and course work at UW-Green Bay.

## Humanities

### Humanities - complete 6 credits

#### Learning Outcomes

- Describe the humanities unique ways of understanding major events and movements in Western and world civilizations.
- Critically examine a range of literary, philosophical, and other cultural texts produced by those movements.
- Articulate individual and social values within cultures and the implications of decisions made on the basis of those values.
- Analyze and produce complex forms of expression.

#### Humanities <sup>1</sup>

ENGLISH 101	Introduction to Film
ENGLISH 104	Introduction to Literature
ENGLISH 212	Introduction to Creative Writing
ENGLISH 214	Introduction to English Literature I
ENGLISH 215	Introduction to English Literature II
ENGLISH 216	Introduction to American Literature I
ENGLISH 217	Introduction to American Literature II
ENGLISH 218	World Literatures I
ENGLISH 219	World Literatures II
ENGLISH 333	Literary Themes
FNS 210	American Indians In Film
FNS 224	First Nations and The Sacred

FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory
FNS/HUM STUD 385	Perspectives on Human Values: First Nations
FNS 391	First Nations Studies Seminar
FNS 392	First Nations Justice and Tribal Governments
FNS 393	First Nations and Education Policy
HISTORY 205	American History to 1865
HISTORY 206	History of the United States from 1865 to the Present
HISTORY 207	Introduction to African-American History
HISTORY/HUM STUD 101	Foundations of Western Culture I
HISTORY/HUM STUD 102	Foundations of Western Culture II
HISTORY/HUM STUD 103	World Civilizations I
HISTORY/HUM STUD 104	World Civilizations II
HUM STUD 201	Introduction to the Humanities I
HUM STUD 202	Introduction to the Humanities II
HUM STUD 340	Science Fiction & Fantasy
HUM STUD 341	Science Fiction Film
HUM STUD 351	Interdisciplinary Themes in Humanistic Studies
HUM STUD 360	Globalization and Cultural Conflict
HUM STUD 383	Perspectives on Human Values: The Contemporary World
PHILOS 101	Introduction to Philosophy
PHILOS 102	Contemporary Ethical Issues
PHILOS 103	Logic and Reasoning
PHILOS 212	Philosophy, Religion, and Science
PHILOS 213	Ancient Philosophy
PHILOS 214	Early Modern Philosophy
PHILOS 216	Introduction to Asian Philosophy
PHILOS 217	Introduction to the Philosophy of Religion
PHILOS 220	Environmental Ethics
PHILOS 351	Happiness and the Good Life
PHILOS 401	Plato and Aristotle
WOST 205/ENGLISH 206	Women in Literature

<sup>1</sup> Complete two courses (6 credits) in at least two different course prefixes

## Natural Sciences

### Natural Sciences - complete one course

#### Learning Outcomes

- Explain central principles and theories of physical sciences.
- Describe the inquiry process through which the sciences approach the development of understanding of the physical world.

#### Natural Sciences

3-5

CHEM 102	Why There is Antifreeze In Your Toothpaste
CHEM 211	Principles of Chemistry I
ENV SCI 102	Introduction to Environmental Sciences
ENV SCI/PHYSICS 141	Astronomy
GEOSCI 102	Natural Hazards
GEOSCI 202	Physical Geology
GEOSCI/GEOG 222	Ocean of Air: Weather and Climate
INFO SCI 201	Information, Computers and Society
PHYSICS 103	Fundamentals of Physics I

PHYSICS 180	Concepts of Physics
PHYSICS 201	Principles of Physics I

## Quantitative Literacy

### Quantitative Literacy - complete one course

#### Learning Outcomes

- Demonstrate competence in performing quantitative operations.
- Communicate and validate quantitative information based on various contexts.
- Apply analytical concepts and operations to aid in problem-solving, decision-making, and other real-world problems.
- Interpret models such as formulas, graphs, tables, or schematics, and draw inferences from them.

#### Quantitative Literacy

3-7

ACCTG 300	Introductory Accounting
BUS ADM 216	Business Statistics
CHEM 211	Principles of Chemistry I
COMM SCI 205	Social Science Statistics
ECON 203	Micro Economic Analysis
GEOG 210	Human Geography and Concepts
HIMT 350	Statistics for Healthcare
MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
MATH 260	Introductory Statistics
PHILOS 103	Logic and Reasoning
PHYSICS 103	Fundamentals of Physics I
PHYSICS 201	Principles of Physics I
POL SCI 318	Political Behavior
POL SCI 480	Senior Seminar/Capstone in Political Science
THEATRE 221	Stagecraft
THEATRE 223	Computer Applications for Theatre
THEATRE 323	Stage Lighting
MUSIC 116 & MUSIC 253 & MUSIC 254	Ear Training and Sight Singing II and Music Theory III and Music Theory IV

## Social Sciences

### Social Sciences - complete 6 credits

#### Learning Outcomes

- Explain how social scientists practice critical thinking.
- Demonstrate the ability to address problems using tools and methods exemplary of the social sciences.
- Demonstrate an understanding of appropriate content in two different social sciences.

#### Social Sciences <sup>1</sup>

6

ANTHRO 100	Varieties of World Culture
ANTHRO 304	Family, Kin, and Community
ANTHRO 320	Myth, Ritual, Symbol and Religion
BUS ADM 202	Business and Its Environment
BUS ADM 206	Law and the Individual
COMM SCI 301	Foundations for Social Research
DJS 101	Introduction to Democracy and Justice Studies
DJS 204	Freedom and Social Control
DJS/WOST 241	Introduction to Women's & Gender Studies



ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
ECON/DJS 307	History of Economic Thought
EDUC 206	Cultural Images in Materials for Children and Adolescents
GEOG 102/UR RE ST 102	World Regions and Concepts: A Geographic Analysis
GEOG 210	Human Geography and Concepts
HUM DEV 102	Introduction to Human Development
POL SCI 100	Global Politics and Society
POL SCI 101	American Government and Politics
POL SCI 202/PU EN AF 202	Introduction to Public Policy
POL SCI 301/PU EN AF 301	Environmental Politics and Policy
POL SCI 353	Politics of Developing Areas
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy
POL SCI 480	Senior Seminar/Capstone in Political Science
PSYCH 102	Introduction to Psychology
PU EN AF 102	Environment and Society
PU EN AF 215	Introduction to Public Administration
SOC WORK 250	You and Your Future: Living and Working in an Aging Society
SOC WORK 275	Foundations of Social Welfare Policy
SOC WORK 375	Family Principles and Patterns
SOCIOL 202	Introduction to Sociology
SOCIOL 203	Ethnic and Racial Identities
UR RE ST 100	Introduction to Urban Studies
UR RE ST 201	City Life and Globalization
UR RE ST 205	Urban Social Problems
UR RE ST 320	Cities in Cinema
UR RE ST 324	Latino Communities in the United States

<sup>1</sup> Complete two courses (6 credits) in at least two different course prefixes

## Sustainability Perspective

### Sustainability Perspective - complete one course

#### Learning Outcomes

- Think critically regarding the array and implications of alternative sustainability definitions.
- Discuss sustainability within the context of ethical decision-making on earth.
- Describe why actions to achieve sustainability are complex and contentious.
- Express how failure to achieve sustainability has implications for human survival and planetary life quality over time.
- Engage in informed judgments about sustainability and problems as socially responsible citizens.

#### Sustainability Perspective

3-4

ENGLISH 333	Literary Themes
ENV SCI 260	Energy and Society
ENV SCI 301	Radioactivity: Past, Present, and Future
ENV SCI 303	Environmental Sustainability
ENV SCI/ET 334	Solid Waste Management
ENV SCI 460	Resource Management Strategy
ENV SCI 469	Conservation Biology
ET 420	Lean Processes
FNS 210	American Indians In Film
FNS 216/UR RE ST 216	Native American Landscapes:Imagined and Lived Spaces
FNS 224	First Nations and The Sacred

FNS 225	Introduction to First Nations Studies: The Tribal World
FNS 226	Introduction to First Nations Studies: Social Justice
FNS 301	Oneida Language I
FNS 302	Oneida Language II
FNS 303	Oneida Language III
FNS 304	Oneida Language IV
FNS 305	Oneida Language V
FNS 306	Oneida Language VI
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory
FNS/HUM STUD 385	Perspectives on Human Values: First Nations
FNS 391	First Nations Studies Seminar
FNS 392	First Nations Justice and Tribal Governments
FNS 393	First Nations and Education Policy
HISTORY 220	American Environmental History
HUM BIOL/WOST 206	Fertility, Reproduction, and Family Planning
HUM BIOL 217	Human Disease and Society
HUM BIOL 405	Biotechnology and Ethics
NUT SCI 250	World Food and Population Issues
PHILOS 220	Environmental Ethics
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy
PSYCH 380	Conservation Psychology
PSYCH 390	Environmental Psychology
PU EN AF 102	Environment and Society
PU EN AF 323	Sustainable Land Use
PU EN AF 324	Transitioning to Sustainable Communities

## Interdisciplinary Majors and Minors

All students must complete an interdisciplinary major or minor.

Bulleted items indicate Areas of Emphasis.

### Arts Management (p. 71) (BA)

### Business Administration (p. 79) (BBA)

- Finance
- Marketing
- Management
- Human Resource Management
- General Business

### Communication (p. 90) (BA or BS)

- Mass Media
- Organizational Communication
- Conflict Resolution
- Journalism
- Public Relations

### Computer Science (p. 94) (BS)

### Democracy and Justice Studies (p. 95) (BA or BS)

- American Studies
- Law and Justice Studies
- U.S. and the World

- Women's and Gender Studies

**Design Arts** (p. 103) (BA)

**Education** (p. 107) (BS)

*(Students pursuing licensure at the secondary level will major in a subject area and minor in Education.)*

**Engineering Technology** (p. 110) (BS) (3 majors)

**Electrical Engineering Technology** (p. 111)

**Environmental Engineering Technology** (p. 112)

**Mechanical Engineering Technology** (p. 113)

**Environmental Policy and Planning** (p. 118) (BS)

- Public Policy
- Planning

**Environmental Science** (p. 121) (BS)

**First Nations Studies** (p. 124) (BA)

**Global Studies** (p. 139) (minor only)

**Health Information Management and Technology** (p. 140) (BS) (major only)

- Healthcare Management
- Healthcare Technology

**Human Biology** (p. 144) (BS)

- General Human Biology
- Health Science
- Exercise Science
- Cytotechnology
- Nutritional Sciences/Dietetics
- Applied Human Biology

**Human Development** (p. 155) (BS)

**Humanistic Studies** (p. 158) (BA)

- Western Cultures
- American Cultures
- Religious Studies
- Cultures and Values
- Ancient and Medieval Studies
- Linguistics/Teaching English as a Second Language

**Individual Major** (p. 165) (BA or BS) (major only)

**Information Sciences** (p. 166) (BS) (major only)

- Information Science
- Information Technology

**Integrative Leadership Studies** (BA or BAS) (major only)

- Arts
- Applied Communication
- Emergency Management
- Environmental Policy Studies
- Human Development

- Leadership in Public Service
- Nonprofit Leadership
- Self-Directed

**International Business** (p. 85) (minor only)

**Nursing** (p. 200) (BSN for RNs)

**Public Administration** (p. 214) (BS)

- Public Management and Policy
- Nonprofit Management
- Emergency Management

**Social Work** (p. 218) (BSW) (major only)

- Child Welfare

**Theatre** (p. 227) (BA)

- Performance
- Design/Technical Theatre
- Theatre Studies
- Musical Theatre

**Urban and Regional Studies** (p. 233) (BA)

**Women's and Gender Studies** (p. 235) (minor only)

## Disciplinary Majors and Minors

All students who choose a disciplinary major must also complete an interdisciplinary major or minor.

Bulleted items indicate Areas of Emphasis.

**Accounting** (p. 63) (BBA)

**Art** (p. 66) (BA)

- Studio Art
- Gallery/Museum Practices *\*This emphasis is not currently available until further notice*
- Art Education
- Art History

**Biology** (p. 73) (BS)

- Animal Biology
- Cell/Molecular Biology
- Ecology and Conservation Biology
- Biology for Educators

**Chemistry** (p. 86) (BS)

- American Chemical Society-Certified Major
- American Chemical Society-Certified Major in Environmental Chemistry
- General Chemistry

**Economics** (p. 105) (BS)

**English** (p. 113) (BA)

- Creative Writing
- Literature
- English Education

**French and Francophone Studies** (p. 126) (BA)

- General
- Teaching

**Geography** (p. 130) (minor only)**Geoscience** (p. 131) (BS)

- General
- Teaching

**German** (p. 135) (BA)

- General
- Teaching

**History** (p. 142) (BA)**Mathematics** (p. 183) (BS)

- Mathematics
- Statistics

**Music** (p. 186) (BA or BM)

- Performance
- Music Education
- Jazz Studies
- Composition
- Individual Studies

**Philosophy** (p. 203) (BA)**Physics** (p. 205) (minor only)**Political Science** (p. 205) (BA)**Psychology** (p. 208) (BS)

- Brain, Behavior and Health
- Cultural and Gender Diversity Emphasis
- General Psychology
- Mental Health
- Sustainability

**Sociology** (p. 222) (minor only)**Spanish and Latin American Studies** (p. 223) (BA)

- General
- Teaching

**Theatre** (p. 227) - Dance (minor only)

## Undergraduate Programs

### College of Liberal Arts and Sciences (<http://www.uwgb.edu/liberal-arts>)

At UW-Green Bay, the College of Liberal Arts and Sciences includes the interdisciplinary and disciplinary programs in the visual and performing arts, communications and information sciences, humanities, social sciences, biological sciences, natural sciences, including mathematics, and international education.

- Majors and Minors (p. 182)

## College of Professional Studies (<http://www.uwgb.edu/professional-studies>)

The College of Professional Studies is comprised of five academic programs - Business (<http://www.uwgb.edu/busadmin>), Education (<http://www.uwgb.edu/education>), Nursing (<http://www.uwgb.edu/nursing>), Physical Education (<http://www.uwgb.edu/phyed>), Social Work (<http://www.uwgb.edu/socwork>), and two community support partnerships – the Northeast Wisconsin (NEW) Partnership for Children and Families (<http://www.uwgb.edu/newpart>) and the Institute for Learning Partnership (<http://www.uwgb.edu/learnpart>) including the Phuture Phoenix program (<http://www.uwgb.edu/phuturephoenix>). Central to Professional Studies are the connections and collaborations that each professional program has with the communities we serve. Many of the programs offer campus, online and blended delivery methods to meet the needs of students in the programs. These academic and partnership programs are highly regarded in the region with very high placement rates for our graduates and very strong connections to the professions.

- Majors and Minors (p. 208)

## Academic Programs

- Art (p. 66)
- Arts Management (p. 71)
- Biology (p. 73)
- Chemistry (p. 86)
- Communication (p. 90)
- Computer Science (p. 94)
- Dance (p. 228)
- Democracy and Justice Studies (p. 95)
- Design Arts (p. 103)
- Economics (p. 105)
- Engineering Technology (p. 110)
- English (p. 113)
- Environmental Policy and Planning (p. 118)
- Environmental Science (p. 121)
- First Nation Studies (p. 124)
- French and Francophone Studies (p. 126)
- Geography (p. 130)
- Geoscience (p. 131)
- German (p. 135)
- Global Studies (p. 139)
- History (p. 142)
- Human Biology (p. 144)
- Human Development (p. 155)
- Humanistic Studies (p. 158)
- Individual Major (p. 165)
- Information Sciences (p. 166)
- Integrative Leadership Studies (p. 173)
- Mathematics (p. 183)
- Music (p. 186)
- Philosophy (p. 203)
- Physics (p. 205)
- Political Science (p. 205)
- Psychology (p. 208)
- Public Administration (p. 214)
- Sociology (p. 222)
- Spanish and Latin American Studies (p. 223)
- Theatre (p. 227)
- Urban and Regional Studies (p. 233)
- Women's and Gender Studies (p. 235)

## Academic Programs

- Austin E. Cofrin School of Business
  - Accounting (p. 63)
  - Business Administration (p. 79)
  - International Business (p. 85)
- Education (p. 107)
- Health Information Management and Technology (p. 140)
- Nursing (p. 200)
- Social Work (p. 218)

## Accounting

Disciplinary Major or Minor (p. 60)  
(Bachelor of Business Administration)

**Associate Professors** – James Doering (chair), James Loebl, Steven Muzatko

**Lecturers** – Pat Albers, Heather Kaminiski

Accounting at UW-Green Bay provides both in-depth knowledge and the broad business background necessary to understand the role of accounting in the business world.

Graduates are qualified to take professional accounting examinations, including the CPA\* (Certified Public Accountant), CMA (Certified Management Accountant), and CIA (Certified Internal Auditing) examinations. Alumni surveys indicate that alumni perceive the Accounting program very favorably, their program of study prepared them extremely well for their careers, the quality of the Accounting faculty is “excellent,” and they would recommend the program to others.

More than 90 percent of UW-Green Bay Accounting graduates typically find employment in their chosen careers or enter graduate programs within six months of graduation. Accounting graduates have secured careers in the fields of public accounting, industry and government, and with the Internal Revenue Service, to name a few.

The program provides considerable exposure to the liberal arts and develops the critical thinking, problem-solving, interpersonal, communication, quantitative, and computer skills needed by graduates to successfully serve as leaders within modern organizations. The program also addresses contemporary organizational issues, such as the role of accounting in continuous quality improvement, implementation of computer technology and advances in accounting information systems and accounting ethics.

The Accounting curriculum is a rigorous, problem-focused program comprised of three integrated elements: supporting, core, and major courses. The supporting and core courses provide breadth and introduce each student to the foundations of business knowledge, including communications, economics, statistics, computers, accounting, finance, management and marketing. The major courses provide depth and prepare each Accounting student thoroughly for a professional career. Through the breadth of business classes required for an Accounting major, students automatically complete a Business Administration minor.

Accounting students have extensive opportunities to meet business professionals and gain practical experience. An active Accounting student organization supports these efforts and helps students to meet others with like interests. Faculty members encourage participation in the internship program, through which students learn and earn credits while working in real business settings. Each spring semester, the VITA (Volunteer Income Tax Assistance) program is offered for credit where students train using an IRS program and assist in tax return preparation for elderly and low income tax payers from the community.

### Entrance and Exit Requirements

Students can declare an Accounting major or minor at any time with any number of credits. Prior to doing so, however, students must read and accept an online Honor Code (<https://sis.uwgb.edu/ngforms/?formid=9ea6ed5f-44fb-41e5-a94c-10c7f63f4b05&Clear=Y>) (pre-declaration form). Once the honor code is received and accepted by the Cofrin School of Business, students interested in an Accounting major or minor may complete a Declaration of Major/Minor/Certificate e-form (<http://www.uwgb.edu/registrar/forms>). All Accounting major or minor Declaration of Major/Minor/Certificate e-forms should be emailed to [Bus-school-eforms@uwgb.edu](mailto:Bus-school-eforms@uwgb.edu) rather than to a specific adviser. All students majoring in accounting must file both an Accounting major and a Business Administration minor Declaration of Major/Minor/Certificate e-form (<http://www.uwgb.edu/registrar/forms>).

Students must maintain a cumulative GPA of 2.5 to proceed in the course progression for an Accounting major or minor. All students must meet Accounting's exit requirement to graduate with an Accounting major. Students intending to graduate with this major must have a minimum 2.5 cumulative grade point average.

### \*150 Credit-Hour CPA Exam Requirement

Students should be aware that the state of Wisconsin requires 120 college credit hours to write the Uniform CPA Exam, while 150 college credit hours are required to become a licensed CPA in Wisconsin. The UW-Green Bay Accounting program is designed so that students with Accounting majors will have several options to earn the credits required for the CPA exam and become licensed as a CPA. An Accounting adviser assists each student in determining which option best meets his or her interests.

In addition to the requirements for the major or minor, it is highly recommended that Accounting students also take

ACCTG 303, Seminar in Accounting Professionalism.

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Please note that by completing all requirements for the Accounting major, students automatically complete the interdisciplinary Business Administration minor.

- Accounting Major (p. 64)

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

- Accounting Minor (p. 65)

## Accounting Major

**This disciplinary major also requires:**

- Completion of an interdisciplinary major or minor (p. 58)

**Supporting Courses**

16

BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics
BUS ADM 350	Business Computer Applications
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
ENG COMP 105	Expository Writing <sup>1</sup>

**Upper-Level Courses <sup>2</sup>**

71

**Core Courses**

ACCTG 300	Introductory Accounting <sup>2</sup>
ACCTG 302	Managerial Accounting I <sup>2</sup>
BUS ADM 305	Legal Environment of Business
BUS ADM 306	Business Law
BUS ADM 322	Introductory Marketing
BUS ADM 343	Corporation Finance
BUS ADM 389	Organizational Behavior
BUS ADM 452	Advanced Microcomputer Business Applications
BUS ADM 490	Strategic Decision Analysis

**Choose one of the following courses:**

BUS ADM 327	Selling and Sales Management
BUS ADM 421	International Marketing
BUS ADM 423	Advertising
BUS ADM 424	Marketing Research
BUS ADM 426	Marketing Management
BUS ADM 427	Practicum in Marketing Research
BUS ADM 428	Consumer Behavior

**Choose one of the following courses:**

BUS ADM 344	Real Estate Principles
BUS ADM 345	Risk Management and Insurance
BUS ADM 347	Financial Markets and Institutions



BUS ADM 442	Principles of Investment
BUS ADM 445	International Financial Management
BUS ADM 446	Advanced Corporation Finance
BUS ADM 447	Derivatives
BUS ADM 450	Bank Administration
<b>Choose one of the following courses:</b>	
BUS ADM 362	Introduction to Human Resource Management
BUS ADM 384	Introduction to Supply Chain Management
BUS ADM 472	Leadership Development
BUS ADM 482	Strategic Management
BUS ADM 481	Entrepreneurship and Small Business Management
BUS ADM 489	Organizational Culture & Change
BUS ADM 499	Travel Course
<b>Accounting Courses</b>	
ACCTG 301	Intermediate Accounting <sup>2</sup>
ACCTG 312	Managerial Accounting II
ACCTG 313	Advanced Financial Accounting I
ACCTG 314	Advanced Financial Accounting II
ACCTG 316	Governmental and Nonprofit Accounting
ACCTG 410	Introduction to Income Tax Theory and Practice
ACCTG 411	Financial Information Systems
ACCTG 412	Auditing Standards and Procedures
ACCTG 414	Managerial Accounting III
ACCTG 415	Advanced Income Tax Theory and Practice

Total Credits

87

<sup>1</sup> Satisfied for students with an ACT English score of 32 or higher

<sup>2</sup> Students must earn a B or better in Accounting 300, 301, and 302 in order to take upper-level courses in Accounting.

## Accounting Minor

This disciplinary minor also requires:

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

6

ENG COMP 105	Expository Writing <sup>1</sup>
ECON 202	Macro Economic Analysis
or ECON 203	Micro Economic Analysis

### Upper-Level Courses <sup>2</sup>

23-24

ACCTG 300	Introductory Accounting <sup>2</sup>
ACCTG 301	Intermediate Accounting <sup>2</sup>
ACCTG 302	Managerial Accounting I <sup>2</sup>
BUS ADM 305	Legal Environment of Business
or BUS ADM 322	Introductory Marketing
ACCTG 312	Managerial Accounting II
or ACCTG 313	Advanced Financial Accounting I

**Choose two of the following courses:**

ACCTG 314	Advanced Financial Accounting II
ACCTG 316	Governmental and Nonprofit Accounting
ACCTG 410	Introduction to Income Tax Theory and Practice
ACCTG 411	Financial Information Systems
ACCTG 414	Managerial Accounting III

- 1 Satisfied for students with an ACT English score of 32 or higher
- 2 Students must earn a B or better in Accounting 300, 301, and 302 in order to take upper-level courses in Accounting.

## Art

Disciplinary Major or Minor (p. 60)  
(Bachelor of Arts)

**Professors** – Kristy Deetz, Carol Emmons, Christine Style  
**Associate Professors** – Sarah Detweiler, Alison Gates (chair), Minkyu Lee, Alison Stehlik  
**Instructional Staff** – Mark Sauter (Woodshop Supervisor)

The visual arts are important components of human experience. They provide a means of articulating and understanding that experience through processes of seeing, making, and thinking in terms of visual systems. The disciplinary major or minor in Art includes courses in studio art and art history, global cultures, and contemporary art.

Art facilities include well-equipped studios in painting, drawing, sculpture, ceramics, photography (traditional and digital), jewelry/metals, fibers/textiles, and printmaking. All Art students who complete ART 101 (Tools, Safety, and Materials) have access to a professional wood and metal-working laboratory managed by a staff person who provides training and technical assistance.

The Art program at the University of Wisconsin-Green Bay holds NASAD accreditation.

Studio art courses:

- present art making as a problem-solving process using creative methods combining intuition and imagination with critical analysis;
- provide knowledge necessary to master materials and techniques;
- provide a foundation for and continuing reference to the principles of visual organization and structure essential to works of art;
- foster a receptive attitude toward diverse forms of artistic production including fine art, applied art, and art produced outside the artistic mainstream.

Art history, global cultures, and contemporary art courses:

- provide a conceptual and philosophical context by investigating stylistic characteristics of specific periods and the dynamic relationship between art and society.

**The Art discipline has three areas of emphasis:**

- Studio Art can lead to professional practice as an artist or to related visual communication careers.
- Gallery/Museum Practices offers preparation for a wide range of careers in museums, art centers, galleries, collections, and other art organizations.
- Art Education leads to credentials for teaching licensure from the Wisconsin Department of Public Instruction.

Art majors must select an interdisciplinary minor. Typical minors include Design Arts, Arts Management, Human Development, Business Administration, Women's and Gender Studies, and Humanistic Studies. The Art adviser can help select an appropriate minor depending upon students' individual goals.

Art majors who select a minor or double major in Design Arts are qualified to seek possible careers include graphic design, art direction, advertising, and other professional work in graphic communications.

Art majors who select a minor or a double major in Arts Management are qualified to seek careers in visual arts administration and art gallery management.

All areas prepare students for viable careers or for entry into graduate school programs. Students in Art should take as many and varied art courses as possible.

Students should seek faculty advising no later than the sophomore year in order to complete an Art major in a timely manner.

Students in many fields find an Art minor an excellent supplement to their academic programs in the context of today's visually oriented, media-driven culture.

The Art minor may serve:

- individuals fulfilling a personal interest in art;
- those seeking to add visual skills to career preparations in such interdisciplinary fields as arts management, design arts, humanistic studies, urban and regional studies, and environmental planning;

- persons who intend it as a component of professional studies in fields such as education and business (advertising and marketing).

The Gallery/Museum Practices emphasis provides opportunities to work in the Lawton Gallery and the 407 Gallery under the supervision of the curator of art. Internships in regional art organizations and museums are also possible in this emphasis.

Active student organizations provide additional opportunities for art-related activities, as does a program of national and international visiting artists.

Students seeking information on teacher certification should contact the Education Office.

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphases:

- Art Education (p. 67)
- Gallery/Museum Practices (p. 68) ***\*This emphasis is not currently available until further notice***
- Studio Art (p. 69)

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

Completion of one of the following areas of emphases:

- Art History (p. 70)
- Studio Art (p. 70)

## Art Major

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphases:

- Art Education (p. 67)
- Gallery/Museum Practices (p. 68) ***\*This emphasis is not currently available until further notice***
- Studio Art (p. 69)

## Art Education Emphasis

**This disciplinary emphasis also requires:**

- Completion of an interdisciplinary major or minor (p. 58)

Art majors may complete an emphasis in Art Education leading to teacher licensure from the Wisconsin Department of Public Instruction. Only those requirements for coursework in Art are listed here. For additional information about admission to the teacher education program, consult the Education Office ([www.uwgb.edu/education](http://www.uwgb.edu/education)), or the Office of Academic Advising, or refer to the Education program description in this catalog. For advising information, see the Art Education adviser.

**Supporting Core Courses**

40

<b>Art History</b>	
ART 102	History of the Visual Arts: Ancient to Medieval
ART 103	History of the Visual Arts II: Renaissance to Modern
ART 202	Concepts and Issues of Modern Art
<b>Design Core</b>	
ART 101	Tools, Safety, and Materials
ART 105	Introductory Drawing
ART 106	Design Methods
ART 107	Two-Dimensional Design
<b>Two-Dimensional Studios</b>	
ART 210	Introduction to Painting

ART 243	Introduction to Photography	
ART 270	Introduction to Printmaking	
<b>Three-Dimensional Studios</b>		
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
<b>Upper-Level Core Courses</b>		24
<b>Required Core Courses</b>		
ART 302	Intermediate Drawing	
ART 490	Contemporary Art	
EDUC 316	Teaching Art in the Middle and Secondary Schools	
<b>Art History (choose one of the following courses):</b>		
ART 376	Modern American Culture	
ART 378	World Art	
ART/WOST 379	Women, Art and Image	
ART 380	History of Photography	
<b>Choose 12 credits of Studio Art courses <sup>1</sup></b>		
Total Credits		64

<sup>1</sup> Twelve elective credits should include four studio courses from the 300-400 level in drawing, painting, printmaking, photography, art metals, textiles, sculpture, or ceramics for which appropriate prerequisites have been completed.

## Gallery/Museum Practices Emphasis

*\*This emphasis is not currently available until further notice*

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

<b>Supporting Core Courses</b>		31
<b>Art History</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	
ART 103	History of the Visual Arts II: Renaissance to Modern	
ART 202	Concepts and Issues of Modern Art	
<b>Design Core</b>		
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Design Methods	
ART 107	Two-Dimensional Design	
<b>Two-Dimensional Studios (choose 6 credits):</b>		
ART 210	Introduction to Painting	
ART 243	Introduction to Photography	
ART 270	Introduction to Printmaking	
<b>Three-Dimensional Studios (choose 6 credits):</b>		
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
<b>Upper-Level Core Courses</b>		30
<b>Required Core Courses</b>		
ART 302	Intermediate Drawing	
ART 490	Contemporary Art	
<b>Art History (choose one of the following courses):</b>		

ART 376	Modern American Culture
ART 378	World Art
ART/WOST 379	Women, Art and Image
ART 380	History of Photography
<b>Gallery/Museum Core</b>	
ART 395	Exhibition Development and Design
ART 396	Gallery/Museum Practices, Principles and Policy
ART 495	Advanced Gallery/Museum Practices
ART 497	Internship
<b>Studio Courses</b>	
Complete 3 credits in Two-Dimensional area courses	
Complete 3 credits in Three-Dimensional area courses	
Complete 3 additional credits from either area above	
<hr/>	
Total Credits	61

## Studio Art Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

**Supporting Core Courses** 31

<b>Art History</b>	
ART 102	History of the Visual Arts: Ancient to Medieval
ART 103	History of the Visual Arts II: Renaissance to Modern
ART 202	Concepts and Issues of Modern Art
<b>Design Core</b>	
ART 101	Tools, Safety, and Materials
ART 105	Introductory Drawing
ART 106	Design Methods
ART 107	Two-Dimensional Design
<b>Two-Dimensional Studios (choose 6 credits):</b>	
ART 210	Introduction to Painting
ART 243	Introduction to Photography
ART 270	Introduction to Printmaking
<b>Three-Dimensional Studios (choose 6 credits):</b>	
ART 220	Introduction to Sculpture
ART 230	Introduction to Ceramics
ART 250	Introduction to Fibers/Textiles
ART 260	Introduction to Jewelry/Metals

**Upper-Level Core Courses** 9

<b>Required Core Courses</b>	
ART 302	Intermediate Drawing
ART 490	Contemporary Art
<b>Art History (choose one of the following courses):</b>	
ART 376	Modern American Culture
ART 378	World Art
ART/WOST 379	Women, Art and Image
ART 380	History of Photography

**Upper-Level Studio Art Emphasis Courses** <sup>1</sup>

Students in the Studio Art Emphasis may choose from a variety of studio options in either 2-D or 3-D studios. Once students have decided on their chosen studio courses, they fill out the upper-level Studio Art Plan form in consultation with an Art adviser. The Art Plan form is used to count courses taken toward the degree and must be filed with the Registrar's Office. - The 10-credit Design Core is required prerequisite for all upper-level studio courses. - A minimum of 9 credits must be selected from one studio area in addition to other relevant upper-level studio art courses to total 15 credits. Upper-level classes have a 300 or 400 designation. - Advanced studios may be taken 3 times for a total of 9 credits. Some courses may have other courses substituted to be more appropriate for student goals. Talk to your adviser for more details. <sup>1</sup>

Total Credits

40

## Art Minor

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

Completion of one of the following areas of emphases:

- Art History (p. 70)
- Studio Art (p. 70)

## Art History Emphasis

**This disciplinary emphasis also requires:**

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

15

ART 102	History of the Visual Arts: Ancient to Medieval
ART 103	History of the Visual Arts II: Renaissance to Modern
ART 105	Introductory Drawing
ART 107	Two-Dimensional Design
ART 202	Concepts and Issues of Modern Art

### Upper-Level Courses

6

**Choose one of the following courses:**

ART 376	Modern American Culture
ART 378	World Art
ART/WOST 379	Women, Art and Image

**Required**

ART 490	Contemporary Art
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Total Credits

21

## Studio Art Emphasis

**This disciplinary emphasis also requires:**

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

19

ART 101	Tools, Safety, and Materials
ART 105	Introductory Drawing
ART 106	Design Methods
ART 107	Two-Dimensional Design
ART 202	Concepts and Issues of Modern Art

**Introductory Studios (choose 6 credits):**

ART 210	Introduction to Painting
ART 220	Introduction to Sculpture
ART 230	Introduction to Ceramics
ART 243	Introduction to Photography
ART 250	Introduction to Fibers/Textiles

ART 260	Introduction to Jewelry/Metals	
ART 270	Introduction to Printmaking	
<b>Upper-Level Courses</b> <sup>1</sup>		<b>6</b>
Total Credits		<b>25</b>

<sup>1</sup> Select two ART courses at the 300-400 level, for which appropriate prerequisites have been completed. The entire Design Core is required for enrollment in all 300-400 upper-level studio courses.

## Arts Management

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Arts)

**Professor** – Ellen Rosewall (chair), Chris Style

The Arts Management major and minor allows students to study the organizational aspects of arts and cultural delivery systems. Arts Management focuses on both the administration of not-for-profit arts and cultural organizations, as well as the interaction between arts and contemporary society. The philosophy of the program is grounded in community settings and the curriculum is centered around three focus areas: management and organizational skills, interdisciplinary arts literacy, and practical experience. Students with Arts Management majors and minors can find employment in museums, theatrical organizations, symphonies, arts councils and historical societies, and are also prepared to work within their communities to support and promote the arts in educational, business and civic settings.

Arts Management majors concentrate classroom work on such issues as public awareness, fundraising and working with a board of directors. At the conclusion of their studies, they schedule an internship or practicum which provides practical experience with a community arts organization or on-campus visual or performing arts activities. Minors have the option of completing an internship or choosing additional coursework or practicum which expands their experience and arts management knowledge. A minimum 3.0 GPA is required for internship placement for both majors and minors.

The Arts Management major is often combined with disciplinary minors or double majors in Art, Music, Theatre, History or English, among others.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see [www.uwgb.edu/international/](http://www.uwgb.edu/international/).

- Arts Management Major (p. 71)
- Arts Management Minor (p. 72)

## Arts Management Major

### Supporting Courses

24

<b>Required Core Courses</b>	
ARTS MGT 256	Understanding the Arts
ARTS MGT 257	Arts in the Community
COMM 133	Fundamentals of Public Address
POL SCI 101	American Government and Politics
<b>Applied Arts (choose a minimum of 3 credits):</b>	
ART 105	Introductory Drawing
ART 106	Design Methods
ART 107	Two-Dimensional Design
ART 230	Introduction to Ceramics
ART 243	Introduction to Photography
ART 250	Introduction to Fibers/Textiles
ART 260	Introduction to Jewelry/Metals
MUS APP: Applied Music Lessons	
MUS ENS: Performance Ensembles	
MUSIC 151	Music Theory I
THEATRE: dance studio courses	
THEATRE 220	Stage Management
THEATRE 335	Production Practicum: Crews
THEATRE 336	Production Practicum: Performance

THEATRE 338	Production Practicum: Scene Shop
<b>History/Theory (choose a minimum of 3 credits):</b>	
ART 102	History of the Visual Arts: Ancient to Medieval
ART 103	History of the Visual Arts II: Renaissance to Modern
ART 202	Concepts and Issues of Modern Art
MUSIC 121	Survey of Western Music
MUSIC/WOST 272	Women in the Performing Arts
THEATRE 110	Introduction to Theatre Arts
THEATRE 309	Theatre History I: Greek to Elizabethan
THEATRE 310	Theatre History II: 17th Century to Realism
THEATRE 311	Theatre History III: 20th Century and Contemporary
<b>Communication and Business (choose 3 credits):</b>	
BUS ADM 206	Law and the Individual
COMM 205	Elements of Media
COMM 237	Small Group Communication
UR RE ST 100	Introduction to Urban Studies
<b>Upper-Level Courses</b>	<b>24</b>
<b>Required Core Courses</b>	
ARTS MGT 354	Managing Arts and Cultural Organizations
ARTS MGT 355	Funding and Financial Issues in the Arts
ARTS MGT 356	Promoting the Arts
ARTS MGT 480	Arts Management Seminar (3 total credits required if this 1 credit course is selected)
<b>Internship/Practicum (choose a minimum of 3 credits):</b>	
ARTS MGT 455	Practicum in Arts Management
ARTS MGT 497	Internship (minimum 3.0 GPA required for internship placement)
<b>Upper-Level Arts (choose 3 credits):</b>	
ART 320	Art and Ideas
ART 376	Modern American Culture
ART 378	World Art
ART/WOST 379	Women, Art and Image
ART 380	History of Photography
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 364	Musical Theatre History
<b>Management and Business (choose 6 credits):</b>	
PU EN AF 344	Leadership in Organizations
PU EN AF 415	Public and Nonprofit Budgeting
PU EN AF 426	Strategic Philanthropy: Civic Engagement Through Giving
PU EN AF 428	Public and Nonprofit Program Evaluation
UR RE ST 312	Community Politics
Total Credits	<b>48</b>

## Arts Management Minor

<b>Supporting Courses</b>	<b>9</b>
ARTS MGT 256	Understanding the Arts
ARTS MGT 257	Arts in the Community
<b>Choose 3 credits:</b>	
ART 102	History of the Visual Arts: Ancient to Medieval
ART 103	History of the Visual Arts II: Renaissance to Modern
ART 202	Concepts and Issues of Modern Art
MUSIC 121	Survey of Western Music



MUSIC/WOST 272	Women in the Performing Arts	
THEATRE 110	Introduction to Theatre Arts	
<b>Upper-Level Courses</b>		<b>12</b>
ARTS MGT 354	Managing Arts and Cultural Organizations	
ARTS MGT 355	Funding and Financial Issues in the Arts	
ARTS MGT 356	Promoting the Arts	
<b>Choose 3 credits:</b>		
ARTS MGT 455	Practicum in Arts Management	
ARTS MGT 497	Internship (minimum 3.0 GPA required for internship placement)	
ENGLISH 324	Practicum in Literary Publishing	
PU EN AF 315	Public and Non-Profit Management	
PU EN AF 344	Leadership in Organizations	
PU EN AF 428	Public and Nonprofit Program Evaluation	
Total Credits		21

## Biology

Disciplinary Major or Minor (p. 60)  
(Bachelor of Science)

**Professors** – Mathew E. Dornbush, Michael L. Draney, Robert W. Howe, Gary Miller, Amy T. Wolf (chair)

**Associate Professors** – Craig J. Hanke, James C. Marker, Daniel Meinhardt, Brian Merkel, Uwe Pott, Donna L. Ritch

**Assistant Professors** – Patrick Forsythe, Lisa Grubisha

Biology is one of UW-Green Bay's most popular and strongest academic programs. The curriculum explores living systems from subcellular organelles to ecosystems. Biology majors can customize their academic plans to emphasize cell and molecular biology, animal biology, or ecology and conservation science. These tracks prepare students for a wide variety of interdisciplinary careers in resource management, fisheries and wildlife biology, health sciences, genetics, microbiology, science communications (technical writing, journalism, and nature interpretation), and many other fields. About 40 percent of Biology graduates pursue advanced degrees in graduate or professional schools in medicine, dentistry, veterinary science, biological sciences, wildlife biology, or ecology and conservation biology. Students at UW-Green Bay also can combine a Biology degree with a program in primary or secondary school education.

Graduates of UW-Green Bay's Biology program are employed today in government agencies (U.S. Environmental Protection Agency, Food and Drug Administration, Fish and Wildlife Service, Forest Service, Bureau of Land Management, Department of Agriculture, Wisconsin Department of Natural Resources, local government agencies); hospitals and clinics, including veterinary hospitals and zoos; private corporations (pharmaceuticals, food processing, agriculture, etc.); environmental consulting firms; conservation organizations; and educational institutions ranging from elementary schools to universities.

Biology majors combine their studies with an interdisciplinary minor. Human Biology is commonly chosen as a minor by Biology majors with interests in pre-medicine, health sciences or exercise science. Students interested in ecology, biodiversity conservation, and management of biological resources such as wildlife, forests, and fisheries, typically combine a minor in Environmental Science. Other popular interdisciplinary subjects for Biology majors include Business Administration and Environmental Policy and Planning.

Students who prefer a Biology minor (rather than a major) select an interdisciplinary major. Most students with a Biology minor choose majors in Environmental Science or Human Biology. Students who desire to become science teachers often combine the Biology major with the professional program in Education. Information about teacher certification requirements can be found at the UW-Green Bay Education Office (<http://www.uwgb.edu/education>).

UW-Green Bay's Biology program provides outstanding opportunities for students to gain practical experience. Many undergraduates work with faculty on field or laboratory research projects. Internships are widely available with private industry, public agencies, and non-profit organizations. These hands-on experiences are critical for developing a competitive resume for the job market or admission to graduate and professional schools.

The Biology program has well-equipped laboratories for coursework and faculty-guided research. In cellular and molecular biology laboratories, students become familiar with techniques of tissue culture, in situ hybridization, affinity chromatography, agarose and polyacrylamide gel, electrophoresis, polymerase chain reaction, and the use of monoclonal antibodies. In physiology laboratories, students learn techniques to study physiological functions. Teaching and research facilities available to ecology and conservation biology students include the Cofrin Center for Biodiversity, the 290-acre Cofrin Memorial Arboretum surrounding the UW-Green Bay campus, four off-campus natural areas managed by the University, the Richter Natural History Museum, small animal laboratory, the Gary A. Fewless Herbarium, a greenhouse, and state-of-the-art computer labs. Advanced undergraduates are able to participate in research projects on Great Lakes ecosystems, northern forests, agroecosystems, rivers, lakes, wetlands, and even tropical forests and mangroves.

Students in the Biology major develop basic skills such as statistical design and analysis, laboratory proficiency, and familiarity with major taxonomic groupings of plants, animals, and microorganisms. Many high paying occupations today require a college-educated individual who can write and speak well, solve problems using a scientific approach, learn new information quickly, and work well with others on a team. UW-Green Bay's Biology students acquire and apply these skills with excellence.

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- Animal Biology (p. 74)
- Biology for Educators (p. 75)
- Cell/Molecular (p. 76)
- Ecology and Conservation (p. 78)

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

- Biology Minor (p. 79)

## Biology Major

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- Animal Biology (p. 74)
- Biology for Educators (p. 75)
- Cell/Molecular (p. 76)
- Ecology and Conservation (p. 78)

## Animal Biology Emphasis

**This disciplinary emphasis also requires:**

- Completion of an interdisciplinary major or minor (p. 58)

**Supporting Courses**

28-29

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
MATH 260	Introductory Statistics
<b>Mathematics (choose one course):</b>	
COMP SCI 256	Introduction to Software Design
MATH 104	Elementary Functions: Algebra and Trigonometry
MATH 201	Calculus for the Management and Social Sciences
MATH 202	Calculus and Analytic Geometry I
<b>Writing (choose one course):</b>	
ENG COMP 105	Expository Writing
INFO SCI 390	Technical Writing

**Upper Level Courses**

30-33

**Required courses**

BIOLOGY 302 Principles of Microbiology

or BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory
BIOLOGY 303	Genetics
BIOLOGY 309	Evolutionary Biology
BIOLOGY 311	Plant Physiology
or BIOLOGY 346	Comparative Physiology
ENV SCI 302	Principles of Ecology
<b>Choose 12-14 credits from the following courses:</b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 322	Environmental Microbiology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 341	Ichthyology
BIOLOGY 342	Ornithology
BIOLOGY 343	Mammalogy
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 353	Invertebrate Biology
BIOLOGY 355	Entomology
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
HUM BIOL 402	Human Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 444	Endocrinology
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar

Total Credits

58-62

## Biology for Educators Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

### Supporting Courses

28-29

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
MATH 260	Introductory Statistics
<b>Mathematics (choose one course):</b>	
COMP SCI 256	Introduction to Software Design
MATH 104	Elementary Functions: Algebra and Trigonometry
MATH 201	Calculus for the Management and Social Sciences
MATH 202	Calculus and Analytic Geometry I
<b>Writing (choose one course):</b>	
ENG COMP 105	Expository Writing
INFO SCI 390	Technical Writing

### Upper Level Courses

30-33

<b>Required courses</b>	
BIOLOGY 302 or BIOLOGY 307 & BIOLOGY 308	Principles of Microbiology Cell Biology and Cell Biology Laboratory
BIOLOGY 303	Genetics
BIOLOGY 309	Evolutionary Biology
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology
ENV SCI 302	Principles of Ecology
<b>Choose 12-14 credits of the following areas:</b>	
<b>Animal Biology (minimum of one course):</b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 342	Ornithology
BIOLOGY 343	Mammalogy
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 353	Invertebrate Biology
BIOLOGY 355	Entomology
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
<b>Ecology and Conservation Biology (minimum of one course):</b>	
BIOLOGY 310	Plant Taxonomy
BIOLOGY 320	Field Botany
BIOLOGY 342	Ornithology
BIOLOGY 343	Mammalogy
BIOLOGY 353	Invertebrate Biology
BIOLOGY 355	Entomology
ENV SCI 467	Capstone in Environmental Science
ENV SCI 469	Conservation Biology
ENV SCI 499	Travel Course
<b>Cell/Molecular Biology (minimum of one course):</b>	
BIOLOGY 302	Principles of Microbiology
BIOLOGY 304	Genetics Laboratory
BIOLOGY 307	Cell Biology
BIOLOGY 312	Mycology
BIOLOGY 402	Advanced Microbiology
BIOLOGY 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 444	Endocrinology
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar

Total Credits

58-62

## Cell/Molecular Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

**Supporting Courses**

28-29

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
MATH 260	Introductory Statistics
<b>Mathematics (choose one course):</b>	
COMP SCI 256	Introduction to Software Design
MATH 104	Elementary Functions: Algebra and Trigonometry
MATH 201	Calculus for the Management and Social Sciences
MATH 202	Calculus and Analytic Geometry I
<b>Writing (choose one course):</b>	
ENG COMP 105	Expository Writing
INFO SCI 390	Technical Writing

**Upper Level Courses**

30-33

<b>Required courses</b>	
BIOLOGY 302	Principles of Microbiology
BIOLOGY 303	Genetics
BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 309	Evolutionary Biology
BIOLOGY 311	Plant Physiology
or BIOLOGY 346	Comparative Physiology
BIOLOGY 407	Molecular Biology
ENV SCI 302	Principles of Ecology
<b>Minimum of 4 credits of the following courses:</b>	
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
<b>Choose a minimum of 5 credits from the following courses:</b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 312	Mycology
BIOLOGY 322	Environmental Microbiology
BIOLOGY 402	Advanced Microbiology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 444	Endocrinology
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar

Total Credits

58-62

## Ecology and Conservation Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

### Supporting Courses

28-29

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
MATH 260	Introductory Statistics
<b>Mathematics (choose one course):</b>	
COMP SCI 256	Introduction to Software Design
MATH 104	Elementary Functions: Algebra and Trigonometry
MATH 201	Calculus for the Management and Social Sciences
MATH 202	Calculus and Analytic Geometry I
<b>Writing (choose one course):</b>	
ENG COMP 105	Expository Writing
INFO SCI 390	Technical Writing

### Upper Level Courses

30-33

<b>Required Courses</b>	
BIOLOGY 302 or BIOLOGY 307 & BIOLOGY 308	Principles of Microbiology Cell Biology and Cell Biology Laboratory
BIOLOGY 303	Genetics
BIOLOGY 309	Evolutionary Biology
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology
ENV SCI 302	Principles of Ecology
<b>Choose 12-14 credits from the following courses:</b>	
BIOLOGY 310	Plant Taxonomy
BIOLOGY 311	Plant Physiology
BIOLOGY 312	Mycology
BIOLOGY 320	Field Botany
BIOLOGY 322	Environmental Microbiology
BIOLOGY 342	Ornithology
BIOLOGY 343	Mammalogy
BIOLOGY 353	Invertebrate Biology
BIOLOGY 355	Entomology
ENV SCI 401	Stream Ecology
ENV SCI 467	Capstone in Environmental Science
ENV SCI 469	Conservation Biology
ENV SCI 499	Travel Course
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar

Total Credits

58-62

## Biology Minor

This disciplinary minor also requires:

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

18

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory

### Upper-Level Courses

17-18

BIOLOGY 302 or BIOLOGY 307 & BIOLOGY 308	Principles of Microbiology Cell Biology and Cell Biology Laboratory
BIOLOGY 303	Genetics
BIOLOGY 309	Evolutionary Biology
ENV SCI 302	Principles of Ecology

Choose one of the following courses:

BIOLOGY 311	Plant Physiology
BIOLOGY 346	Comparative Physiology

Total Credits

35-36

## Business Administration

Interdisciplinary Major or Minor (p. 58)

(Bachelor of Business Administration)

**Professors** – Lucy Arendt (Director, Cofrin School of Business), Meir Russ

**Associate Professors** – Gaurav Bansal, James Doering, William Lepley, James Loebel (chair), Steven Muzatko, Robert Nagy, David Radosevich, Sampath Ranganathan, Mussie Teclezion

**Assistant Professors** – Vallari Chandna, Amulya Gurtu, Vivek Madupu, Nilesh Sah, Soo Il Shin

**Lecturers** – Pooja Agarwal, Pat Albers, Sue Craver, Heather Kaminski, Ken Knauf, Larry McGregor

UW-Green Bay's major and minor in Business Administration offer the skills and broad business background needed for a lifetime of opportunity. More than 90 percent of graduates typically find employment in business, industry, government, and other fields, or enter graduate programs within six months of graduation. UW-Green Bay students are accepted into reputable graduate schools. Many alumni are successful business leaders. Alumni surveys indicate that alumni perceive the Business Administration program very favorably, their program of study prepared them extremely well for their careers, the quality of the Business Administration faculty is "excellent," and they would recommend the program to others.

The program provides considerable exposure to the liberal arts and develops the critical thinking, problem-solving, interpersonal, communication, quantitative and computer skills needed by graduates to successfully serve as leaders within modern organizations. The program also addresses contemporary organizational issues such as global competition, social responsibility and ethics, sustainability, and the relationship between organizations and various environmental forces.

The Business Administration major is an interdisciplinary and problem-focused program comprised of three integrated elements: supporting, core and emphasis courses. The supporting and core courses provide breadth and introduce each student to the foundations of business knowledge, including communications, economics, statistics, computers, accounting, law, finance, management and marketing. Each Business Administration major extensively studies an area of emphasis:

- Finance
- General Business
- Human Resource Management
- Management
- Marketing

Each emphasis consists of courses designed to thoroughly prepare the student in a business specialization.

A distinctive feature of the program is that many upper-level courses include a practical project component, offering the opportunity to apply the problem-solving theories and concepts learned in the classroom to real situations. Alumni say this increases their value to employers and sets them apart from traditional business program graduates.

Extensive opportunities are available for students to meet business professionals and gain practical experience. Active student organizations support these efforts and help students to meet others with like interests. Faculty members encourage participation in internships.

### Program Entrance and Exit Requirements

Students can declare a Business Administration major or minor at any time with any number of credits. Prior to doing so, however, students must read and accept an online Honor Code (<https://sis.uwgb.edu/ngforms/?formid=9ea6ed5f-44fb-41e5-a94c-10c7f63f4b05&Clear=Y>) (pre-declaration form). Once the honor code is received and accepted by the Cofrin School of Business, students interested in a Business Administration major or minor may complete a Declaration of Major/Minor/Certificate e-form (<http://www.uwgb.edu/registrar/forms>). All Business Administration major or minor Declaration of Major/Minor/Certificate e-forms should be emailed to [Bus-school-eforms@uwgb.edu](mailto:Bus-school-eforms@uwgb.edu) rather than to a specific adviser.

Students must maintain a cumulative GPA of 2.5 to proceed in the course progression for a Business Administration major or minor. All students must meet Business Administration's exit requirement to graduate with a Business Administration major. Students intending to graduate with this major must have a minimum 2.5 cumulative grade point average.

**Business Administration** is a popular choice as a minor. In addition, a second option is a minor in **International Business**. This minor encourages students to gain language and culture proficiency sufficient to complement their study of Business Administration in a world economy.

## Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Finance (p. 80)
- General Business (p. 81)
- Human Resource Management (p. 82)
- Management (p. 83)
- Marketing (p. 84)
  
- Business Administration Minor (p. 85)
- International Business Minor (p. 85)

## Business Administration Major

### Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Finance (p. 80)
- General Business (p. 81)
- Human Resource Management (p. 82)
- Management (p. 83)
- Marketing (p. 84)

## Finance Emphasis

### Supporting Courses

16

BUS ADM 350	Business Computer Applications
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
ENG COMP 105	Expository Writing <sup>1</sup>
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics

### Upper-Level Courses

22

ACCTG 300	Introductory Accounting
ACCTG 302	Managerial Accounting I



BUS ADM 305	Legal Environment of Business
BUS ADM 322	Introductory Marketing
BUS ADM 343	Corporation Finance
BUS ADM 389	Organizational Behavior
BUS ADM 490	Strategic Decision Analysis
<b>Finance Emphasis Required Courses</b>	
BUS ADM 347	Financial Markets and Institutions
<b>Choose four of the following courses:</b>	
BUS ADM 344	Real Estate Principles
BUS ADM 345	Risk Management and Insurance
BUS ADM 442	Principles of Investment
BUS ADM 445	International Financial Management
BUS ADM 446	Advanced Corporation Finance
BUS ADM 447	Derivatives
BUS ADM 450	Bank Administration
<b>Choose one of the following courses:</b>	
BUS ADM 362	Introduction to Human Resource Management
BUS ADM 384	Introduction to Supply Chain Management
BUS ADM 472	Leadership Development
BUS ADM 481	Entrepreneurship and Small Business Management
BUS ADM 482	Strategic Management
BUS ADM 489	Organizational Culture & Change
BUS ADM 499	Travel Course
<b>Choose one of the following courses:</b>	
BUS ADM 327	Selling and Sales Management
BUS ADM 421	International Marketing
BUS ADM 423	Advertising
BUS ADM 424	Marketing Research
BUS ADM 426	Marketing Management
BUS ADM 428	Consumer Behavior

Total Credits 59

<sup>1</sup> Satisfied for students with an ACT English score of 32 or higher

## General Business Emphasis

<b>Supporting Courses</b>		16
BUS ADM 350	Business Computer Applications	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ENG COMP 105	Expository Writing <sup>1</sup>	
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics	
<b>Upper-Level Courses</b>		22
ACCTG 300	Introductory Accounting	
ACCTG 302	Managerial Accounting I	
BUS ADM 305	Legal Environment of Business	
BUS ADM 322	Introductory Marketing	
BUS ADM 343	Corporation Finance	
BUS ADM 389	Organizational Behavior	
BUS ADM 490	Strategic Decision Analysis	
<b>General Business Emphasis Required Courses</b>		21

BUS ADM 347	Financial Markets and Institutions
BUS ADM 362	Introduction to Human Resource Management
BUS ADM 423	Advertising
BUS ADM 428	Consumer Behavior
BUS ADM 442	Principles of Investment
BUS ADM 452	Advanced Microcomputer Business Applications
BUS ADM 482	Strategic Management

Total Credits

59

<sup>1</sup> Satisfied for students with an ACT English score of 32 or higher

## Human Resource Management Emphasis

### Supporting Courses

16

BUS ADM 350	Business Computer Applications
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
ENG COMP 105	Expository Writing <sup>1</sup>
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics

### Upper-Level Courses

22

ACCTG 300	Introductory Accounting
ACCTG 302	Managerial Accounting I
BUS ADM 305	Legal Environment of Business
BUS ADM 322	Introductory Marketing
BUS ADM 343	Corporation Finance
BUS ADM 389	Organizational Behavior
BUS ADM 490	Strategic Decision Analysis

### Human Resource Management Emphasis Required Courses

21

BUS ADM 362	Introduction to Human Resource Management
BUS ADM 460	Training and Development
BUS ADM 462	Seminar in Human Resource Management
BUS ADM 467	Compensation and Benefits Planning

#### Choose one of the following courses:

BUS ADM 384	Introduction to Supply Chain Management
BUS ADM 472	Leadership Development
BUS ADM 481	Entrepreneurship and Small Business Management
BUS ADM 482	Strategic Management
BUS ADM 489	Organizational Culture & Change
BUS ADM 499	Travel Course

#### Choose one of the following courses:

BUS ADM 344	Real Estate Principles
BUS ADM 345	Risk Management and Insurance
BUS ADM 347	Financial Markets and Institutions
BUS ADM 442	Principles of Investment
BUS ADM 445	International Financial Management
BUS ADM 446	Advanced Corporation Finance
BUS ADM 447	Derivatives
BUS ADM 450	Bank Administration

#### Choose one of the following courses:

BUS ADM 327	Selling and Sales Management
BUS ADM 421	International Marketing

BUS ADM 423	Advertising	
BUS ADM 424	Marketing Research	
BUS ADM 426	Marketing Management	
BUS ADM 428	Consumer Behavior	
Total Credits		59

<sup>1</sup> Satisfied for students with an ACT English score of 32 or higher

## Management Emphasis

<b>Supporting Courses</b>		16
BUS ADM 350	Business Computer Applications	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ENG COMP 105	Expository Writing <sup>1</sup>	
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics	
<b>Upper-Level Courses</b>		22
ACCTG 300	Introductory Accounting	
ACCTG 302	Managerial Accounting I	
BUS ADM 305	Legal Environment of Business	
BUS ADM 322	Introductory Marketing	
BUS ADM 343	Corporation Finance	
BUS ADM 389	Organizational Behavior	
BUS ADM 490	Strategic Decision Analysis	
<b>Management Emphases Required Courses</b>		21
BUS ADM 362	Introduction to Human Resource Management	
BUS ADM 472	Leadership Development	
BUS ADM 482	Strategic Management	
BUS ADM 489	Organizational Culture & Change	
<b>Choose one of the following courses:</b>		
BUS ADM 384	Introduction to Supply Chain Management	
BUS ADM 452	Advanced Microcomputer Business Applications	
BUS ADM 481	Entrepreneurship and Small Business Management	
BUS ADM 499	Travel Course	
<b>Choose one of the following courses:</b>		
BUS ADM 344	Real Estate Principles	
BUS ADM 345	Risk Management and Insurance	
BUS ADM 347	Financial Markets and Institutions	
BUS ADM 442	Principles of Investment	
BUS ADM 445	International Financial Management	
BUS ADM 446	Advanced Corporation Finance	
BUS ADM 447	Derivatives	
BUS ADM 450	Bank Administration	
<b>Choose one of the following courses:</b>		
BUS ADM 327	Selling and Sales Management	
BUS ADM 421	International Marketing	
BUS ADM 423	Advertising	
BUS ADM 424	Marketing Research	
BUS ADM 426	Marketing Management	
BUS ADM 428	Consumer Behavior	
Total Credits		59

<sup>1</sup> Satisfied for students with an ACT English score of 32 or higher

## Marketing Emphasis

<b>Supporting Courses</b>	<b>16</b>
BUS ADM 350	Business Computer Applications
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
ENG COMP 105	Expository Writing <sup>1</sup>
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics
<b>Upper-Level Courses</b>	<b>22</b>
ACCTG 300	Introductory Accounting
ACCTG 302	Managerial Accounting I
BUS ADM 305	Legal Environment of Business
BUS ADM 322	Introductory Marketing
BUS ADM 343	Corporation Finance
BUS ADM 389	Organizational Behavior
BUS ADM 490	Strategic Decision Analysis
<b>Marketing Emphasis Required Courses</b>	<b>21</b>
BUS ADM 421	International Marketing
BUS ADM 424	Marketing Research
BUS ADM 428	Consumer Behavior
<b>Choose two of the following courses:</b>	
BUS ADM 327	Selling and Sales Management
BUS ADM 423	Advertising
BUS ADM 426	Marketing Management
BUS ADM 499	Travel Course
<b>Choose one of the following courses:</b>	
BUS ADM 344	Real Estate Principles
BUS ADM 345	Risk Management and Insurance
BUS ADM 347	Financial Markets and Institutions
BUS ADM 442	Principles of Investment
BUS ADM 445	International Financial Management
BUS ADM 446	Advanced Corporation Finance
BUS ADM 447	Derivatives
BUS ADM 450	Bank Administration
<b>Choose one of the following courses:</b>	
BUS ADM 362	Introduction to Human Resource Management
BUS ADM 384	Introduction to Supply Chain Management
BUS ADM 472	Leadership Development
BUS ADM 481	Entrepreneurship and Small Business Management
BUS ADM 482	Strategic Management
BUS ADM 489	Organizational Culture & Change
<b>Total Credits</b>	<b>59</b>

<sup>1</sup> Satisfied for students with an ACT English score of 32 or higher

## Business Administration Minors

- Business Administration Minor (p. 85)
- International Business Minor (p. 85)

## Business Administration Minor

### Supporting Courses

16

ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
BUS ADM 202 or BUS ADM 282	Business and Its Environment <sup>1</sup> Personal Financial Planning
BUS ADM 305 or BUS ADM 206	Legal Environment of Business <sup>2</sup> Law and the Individual
<b>Choose one of the following courses:</b>	
BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
MATH 260	Introductory Statistics

### Upper-Level Courses

13

ACCTG 300	Introductory Accounting
BUS ADM 322	Introductory Marketing
BUS ADM 343	Corporation Finance
BUS ADM 389	Organizational Behavior

Total Credits

29

<sup>1</sup> Upon degree completion, requirement of BUS ADM 202 or BUS ADM 282 is waived for students obtaining an Accounting major.

<sup>2</sup> BUS ADM 206 is valid for the Business Administration minor only. It cannot be applied to a Business Administration major.

## International Business Minor

This minor requires specific Language, Study Abroad, or Internship Requirements:

- Two (2) years of college-level language courses or equivalent competency. See faculty adviser for approval.
- International internship or participation in a study abroad program. Approved internships arranged through Business Administration, Modern Languages or International Education Office.

### Supporting Courses

6

ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis

### Upper-Level Courses

13

ACCTG 300	Introductory Accounting
BUS ADM 322	Introductory Marketing
BUS ADM 343	Corporation Finance
BUS ADM 389	Organizational Behavior

### International Courses

6

<b>Choose one of the following courses:</b>	
BUS ADM 421	International Marketing
BUS ADM 445	International Financial Management
ECON 403	International Economics
<b>Choose one of the following courses:</b>	
FRENCH 367	Business French
GERMAN 420	Business German
HUM STUD 360	Globalization and Cultural Conflict
SPANISH 358	Latin America Today
SPANISH 359	The Cultures of the Americas
SPANISH 360	Spain Today

## Chemistry

Disciplinary Major or Minor (p. 60)  
(Bachelor of Science)

**Professor** – Michael Zorn

**Associate Professors** – Franklin Chen, John M. Lyon (chair), Michael J. McIntire, Debra Pearson, Julie M. Wondergem

**Assistant Professor** – Jeremy Intemann

**Lecturer** – Nydia Villanueva

Chemists have made significant contributions to the improvement of the quality of our lives. They have played a vital role in the advancement of so many fields that it is hard to think of an area where the contributions of chemists have not been important. The challenges of today and tomorrow will continue to rely upon well-trained and creative chemists for their solutions.

The UW-Green Bay Chemistry program is an integrated progression of lecture and laboratory instruction that is designed to provide students with the skills needed by chemists today and tomorrow. These skills include a solid understanding of chemical principles, hands-on training in the use of modern instrumentation, experience in the design of experiments and the ability to analyze data and present results. The majority of UW-Green Bay Chemistry majors have opportunities to work as research assistants on faculty projects, or to conduct their own independent projects. UW-Green Bay faculty are active in research on chemical catalysis, sol-gel chemistry, natural product synthesis, alternative and renewable energy, chemistry of ultrasound, polymer synthesis and applications, mesoporous material synthesis and applications, computation chemistry, photocatalysis, sensors, environmental chemistry, biochemistry, and molecular biology. A research experience is an excellent way to develop and to showcase your professional skills and can provide a significant advantage when entering the job market and in applying to graduate and professional schools.

The University maintains an excellent collection of modern instrumentation, including: Hewlett-Packard and Varian gas chromatography (GC) systems with a variety of detectors (e.g., MS, ECD, FID, and TCD); Shimadzu high performance liquid chromatography (HPLC) systems; a Dionex ion chromatograph (IC); a TESCAN scanning electron microscope (SEM) with an energy dispersive x-ray detector; an Anasazi nuclear magnetic resonance (NMR) spectrometer; a Nicolet Fourier Transform Infrared (FTIR) spectrometer; a Varian inductively coupled plasma atomic emission spectrometer (ICP AES); a Perkin Elmer luminescence spectrometer (LS); Shimadzu UV/visible spectrophotometers; a three-channel Lachat QuikChem 8500 flow injection analyzer (FIA); a Shimadzu total organic carbon (TOC) analyzer; a Suprex supercritical fluid extractor (SFE); and gamma-ray and liquid scintillation counters. Students gain hands-on experience with these instruments during advanced coursework and in research projects.

Students who want to add depth to their programs may pursue an American Chemical Society approved major in either Chemistry or Environmental Chemistry. Students who complete these majors are registered with the ACS and have the certification recorded on their official University credentials.

A UW-Green Bay Chemistry major provides excellent training for students interested in careers in industry and for students interested in continuing their studies in graduate and professional schools. UW-Green Bay Chemistry majors are sought after by local industries for their strong chemistry skills and problem-solving abilities. Approximately half of the UW-Green Bay Chemistry majors begin their professional careers in industry. Students interested in continuing their studies have been admitted to the top graduate schools in the chemical and health sciences and into professional schools in medicine, dentistry, and veterinary science. UW-Green Bay Chemistry majors have gone on to become university professors, medical doctors and corporate directors.

### This disciplinary major also requires:

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- Chemistry Emphasis (p. 88)
- American Chemical Society Certified in Chemistry Emphasis (p. 87)
- American Chemical Society Certified in Environmental Chemistry (p. 87) Emphasis

### This disciplinary minor also requires:

Completion of an interdisciplinary major (p. 58)

- Chemistry Minor (p. 89)

## Chemistry Major

This disciplinary major also requires:

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- Chemistry Emphasis (p. 88)
- American Chemical Society Certified in Chemistry Emphasis (p. 87)
- American Chemical Society Certified in Environmental Chemistry Emphasis (p. 87)

## American Chemical Society Certified in Chemistry Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

### Supporting Courses

33

CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
ENV SCI 207	Laboratory Safety
MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
MATH 209	Multivariate Calculus
PHYSICS 201	Principles of Physics I
PHYSICS 202	Principles of Physics II

### Upper-Level Courses

35

#### Core Courses

CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II
CHEM 311	Analytical Chemistry
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory
CHEM 413	Instrumental Analysis
CHEM 495	Research in Chemistry (3 credits of Research is required)

Total Credits

68

## American Chemical Society Certified in Environmental Chemistry Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

### Supporting Courses

48

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
BIOLOGY 302	Principles of Microbiology
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory

CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
ENV SCI 102	Introduction to Environmental Sciences	
ENV SCI 207	Laboratory Safety	
GEOSCI 202	Physical Geology	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
PHYSICS 201	Principles of Physics I	
PHYSICS 202	Principles of Physics II	
<b>Upper-Level Courses</b>		<b>39</b>
<b>Core Courses</b>		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 311	Analytical Chemistry	
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory	
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory	
CHEM 413	Instrumental Analysis	
CHEM 495	Research in Chemistry (3 credits of Research is required)	
ENV SCI 305	Environmental Systems	
Total Credits		87

## Chemistry Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

<b>Supporting Courses</b>		<b>29</b>
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
ENV SCI 207	Laboratory Safety	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
PHYSICS 201	Principles of Physics I	
PHYSICS 202	Principles of Physics II	
<b>Upper-Level Courses</b>		<b>28</b>
<b>Core Courses</b>		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 311	Analytical Chemistry	
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory	



CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	
CHEM 413	Instrumental Analysis	
<b>Electives (choose 4 credits):</b>		
CHEM 330	Biochemistry	
CHEM 331	Biochemistry Laboratory	
CHEM 402	Advanced Organic Chemistry	
CHEM 403	Advanced Organic Chemistry Laboratory	
CHEM 407	Molecular Biology	
CHEM 408	Molecular Biology Laboratory	
CHEM 410	Inorganic Chemistry	
CHEM 411	Inorganic Chemistry Laboratory	
CHEM 417	Nuclear Physics and Radiochemistry	
CHEM 420	Polymer Chemistry	
Total Credits		57

## Chemistry Minor

This disciplinary minor also requires:

- Completion of an interdisciplinary major (p. 58)

<b>Supporting Courses</b>		11
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
ENV SCI 207	Laboratory Safety	
<b>Upper-Level Courses</b>		12
CHEM 311	Analytical Chemistry	
<b>Complete one of the following course groups:</b>		
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
<b>Choose 4 credits from the following elective courses:</b>		
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory	
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	
CHEM 407 & CHEM 408	Molecular Biology and Molecular Biology Laboratory	
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory	
CHEM 413	Instrumental Analysis <sup>1</sup>	
CHEM 417	Nuclear Physics and Radiochemistry <sup>1</sup>	
Total Credits		23

<sup>1</sup> Students must also complete one additional upper-level Chemistry lab course

# Communication

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Arts or Bachelor of Science)

**Professors** – Phillip Clampitt (chair) (organizational communication, public relations)

**Assistant Professors** – Bryan Carr (media), Ioana Coman (journalism), Laleah Fernandez (public relations)

**Lecturers** – Danielle Bina (media, public relations)

The interdisciplinary program in Communication offers contemporary communication studies emphasizing comprehensive understanding of communication. Students come to understand how communication happens; how messages are put into visual and verbal codes; how messages are filtered through various media; how messages are interpreted and affect different audiences in different ways and in different contexts; and how students construct those contexts.

New information technologies tend to merge media. A major or minor in Communication provides the kind of integrative knowledge that is required for professional careers in the field.

Before being admitted to the Communication major, a student must earn a minimum grade point average (GPA) of 2.5 based on completion of 30 degree credits and must complete an application form and related items that can be found on the Communication web page. Students not meeting the GPA minimum may contact their faculty adviser for information on appeal procedures. Transfer students need to complete 15 UW-Green Bay credits with a minimum grade point average of 2.5 before they are eligible to apply to the program.

Internships in Communication provide qualified students with opportunities for faculty-supervised experience in professional settings outside the classroom. In addition, several Communication courses involve students in research projects in the community.

Communication graduates have entered a wide variety of academic and professional areas: news reporting, photojournalism, broadcast journalism, television production, printing and publications, advertising, sales and marketing, management consulting, technical writing and editing, public relations, and government service, as well as graduate study in information science, library science, journalism, media studies, and telecommunications.

Communication offers five areas of emphasis.

- Students in **conflict resolution** study communication strategies that reduce the sources of human conflict. This area of emphasis prepares students to become negotiators, mediators, and stronger communicators in the workplace. Theoretical and practical experiences are balanced to prepare graduates for work in nonprofit or profit institutions or for graduate study.
- In **mass media**, students need more than just knowledge of production techniques. Professional advancement requires skills in writing, editing, advertising and sales, market and audience research, as well as knowledge of new media and their impact on society and culture.
- In **journalism**, students will develop writing and editing skills, including video reporting/editing skills; the ability to do in-depth research and reporting, a concern for people, a strong sense of autonomy, and a well-rounded understanding of important issues in their field through this program and through a liberal arts education. Students will also gain hands-on experience in journalism through participation in on-campus publications and/or through outside internships.
- Students in **organizational communication** develop basic communication skills needed in organizations, such as speaking, interviewing, meeting management, and problem solving using different communication technologies for different purposes. They also learn about sources of communication problems in organizations, strategies for discovering and solving these problems, and current theories of organizational communication.
- Students in **public relations** complete requirements that reflect the demand for graduates who can write well, are fully acquainted with the wide range of available modes of communication (graphics, print, broadcast, oral discourse, digital/internet, and their many combinations), and are particularly skillful in at least one of them. Students also learn how to respond to common PR challenges such as announcing changes, promoting events, and responding to crises.

## Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Conflict Resolution (p. 91) *\*This emphasis is not currently available until further notice*
- Mass Media (p. 92)
- Organizational Communication (p. 92)
- Journalism (p. 91)
- Public Relations (p. 93)
- Communication Minor (p. 93)

# Communication Major

## Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Conflict Resolution (p. 91) *\*This emphasis is not currently available until further notice*
- Mass Media (p. 92)
- Organizational Communication (p. 92)
- Journalism (p. 91)
- Public Relations (p. 93)

## Conflict Resolution Emphasis

*\*This emphasis is not currently available until further notice*

<b>Supporting Courses</b> <sup>1</sup>	18
<b>Core Courses</b>	
COMM 102	Introduction to Communication
COMM 133	Fundamentals of Public Address
COMM 185	Business and Media Writing
COMM 205	Elements of Media
COMM 290	Communication Problems and Research Methods
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication
<b>Upper-Level Courses</b> <sup>1</sup>	30
COMM 333	Persuasion and Argumentation
COMM 335	Organizational Communication
COMM 336	Theories of the Interview
COMM 340	Mediation and Conflict Resolution
COMM 380	Communication Law
COMM 430	Information, Media and Society
COMM 445	Human Communication Theory
<b>Choose three upper-level elective courses in Communication or the following:</b>	
HUM DEV 370	Personal Relationships
PSYCH 330	Social Psychology
PU EN AF 315	Public and Non-Profit Management
PU EN AF 344	Leadership in Organizations
Total Credits	48

<sup>1</sup> Note: 5 of the 6 supporting courses must be completed before taking any upper-level courses.

## Journalism Emphasis

<b>Supporting Courses</b> <sup>1</sup>	18
<b>Core Courses</b>	
COMM 102	Introduction to Communication
COMM 133	Fundamentals of Public Address
COMM 185	Business and Media Writing
COMM 205	Elements of Media
COMM 290	Communication Problems and Research Methods
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication
<b>Upper-Level Courses</b> <sup>1</sup>	30

COMM 302	News Reporting and Writing
COMM 380	Communication Law
COMM 382	Public Relations Writing
COMM 396	Advanced Reporting
COMM 425	Digital Journalism
COMM 474	Media Workshop I
COMM 475	Media Workshop II

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**Choose three upper-level elective courses in Communication <sup>2</sup>**

Total Credits 48

<sup>1</sup> Note: 5 of the 6 supporting courses must be completed before taking any upper-level courses.

<sup>2</sup> Internships are available for 1-12 credits but only 3 credits maximum of internship can be used to meet requirements of a major in Communication.

## Mass Media Emphasis

**Supporting Courses <sup>1</sup>** 18

**Core Courses**

COMM 102	Introduction to Communication
COMM 133	Fundamentals of Public Address
COMM 185	Business and Media Writing
COMM 205	Elements of Media
COMM 290	Communication Problems and Research Methods
COMM 166	Fundamentals of Interpersonal Communication
or COMM 237	Small Group Communication

**Upper-Level Courses <sup>1</sup>** 30

COMM 302	News Reporting and Writing
COMM 306	Radio Broadcasting
COMM 307	Television Production Techniques
COMM 308	Information Technologies
COMM 309	Mass Media Advertising
COMM 380	Communication Law
COMM 430	Information, Media and Society
COMM 477	Social Media Strategies

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**Choose 6 credits of upper-level Communication electives <sup>2</sup>**

Total Credits 48

<sup>1</sup> Note: 5 of the 6 supporting courses must be completed before taking any upper-level courses.

<sup>2</sup> Internships are available for 1-12 credits but only 3 credits maximum of internship can be used to meet requirements of a major in Communication.

## Organizational Communication Emphasis

**Supporting Courses <sup>1</sup>** 18

**Core Courses**

COMM 102	Introduction to Communication
COMM 133	Fundamentals of Public Address
COMM 185	Business and Media Writing
COMM 205	Elements of Media
COMM 290	Communication Problems and Research Methods
COMM 166	Fundamentals of Interpersonal Communication
or COMM 237	Small Group Communication

**Upper-Level Courses**<sup>1</sup> 30

COMM 308	Information Technologies
COMM 333	Persuasion and Argumentation
COMM 335	Organizational Communication
COMM 336	Theories of the Interview
COMM 380	Communication Law
COMM 382	Public Relations Writing
COMM 480	Cases in Communications and Media Management

**Choose three upper-level elective courses in Communication**<sup>2</sup>


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Total Credits 48

<sup>1</sup> Note: 5 of the 6 supporting courses must be completed before taking any upper-level courses.

<sup>2</sup> Internships are available for 1-12 credits but only 3 credits maximum of internship can be used to meet requirements of a major in Communication.

## Public Relations Emphasis

**Supporting Courses**<sup>1</sup> 18**Core Courses**

COMM 102	Introduction to Communication
COMM 133	Fundamentals of Public Address
COMM 185	Business and Media Writing
COMM 205	Elements of Media
COMM 290	Communication Problems and Research Methods
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication

**Upper-Level Courses**<sup>1</sup> 30

COMM 302	News Reporting and Writing
COMM 303	Feature Writing
COMM 335	Organizational Communication
COMM 380	Communication Law
COMM 381	Principles of Public Relations/Corporate Communications
COMM 382	Public Relations Writing
COMM 480	Cases in Communications and Media Management
COMM 477	Social Media Strategies

**Choose 2 upper-level elective courses in Communication**<sup>2</sup>


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Total Credits 48

<sup>1</sup> Note: 5 of the 6 supporting courses must be completed before taking any upper-level courses.

<sup>2</sup> Internships are available for 1-12 credits but only 3 credits maximum of internship can be used to meet requirements of a major in Communication.

## Communication Minor

**Supporting Courses**<sup>1</sup> 18**Core courses**

COMM 102	Introduction to Communication
COMM 133	Fundamentals of Public Address
COMM 185	Business and Media Writing
COMM 205	Elements of Media
COMM 290	Communication Problems and Research Methods
COMM 166	Fundamentals of Interpersonal Communication

or COMM 237	Small Group Communication	
<b>Upper-Level Courses</b> <sup>1</sup>		15
<b>Choose five upper-level elective courses in Communication</b> <sup>2</sup>		
Total Credits		33

<sup>1</sup> Note: 5 of the 6 supporting courses must be completed before taking any upper-level courses.

<sup>2</sup> Internships are available for 1-12 credits but only 3 credits maximum of internship can be used to meet requirements of a minor in Communication.

## Computer Science

Interdisciplinary Major and Minor (p. 58)  
(Bachelor of Science)

**Associate Professor** – Peter Breznay (chair)

**Assistant Professor** - Ankur Chattopadhyay

**Lecturer** - Ben Geisler

The field of computer science is undergoing great changes as technology advances and the need for computer software increases. Students entering this field must not see a bachelor's degree in computer science as the culmination of study in the field. Rather, they must see it as the first step in a continuing education process that will last as long as they choose to stay in the field. The goal of the Computer Science major is to provide students with a strong foundation upon which they can continue to build as the field changes. Students can receive instruction in areas such as software design and project management, object-oriented programming, design of algorithms, operating systems, database management systems, neural networks, computer graphics, network programming, and more.

Computer science courses are often mistaken for programming courses. In reality, they require much more than learning and mastering a programming language. The heart of software design is not the language, but the ability to define a problem, analyze various components, and project and evaluate potential solutions, all of which must be scalable and robust. This must also be done under the constraint that they are subject to limitations and constraints inherent in a given computer. Students must understand that in industry there must be more than just a working program. Good software must not only work but must be fully documented, clearly written, easily modifiable to meet changing and more extensive requirements, and engineered for stability, security, and correctness.

Equally important, the program provides a theoretical base for computer science and helps students understand there is more to computer science than software development. Students develop skills they can use upon graduation but they must be prepared to enter a field which is both diverse and rapidly changing and they must be able to adapt to new technologies. This requires a solid theoretical foundation with knowledge of how computers work and how they carry out tasks specified in applications software. It requires that students think beyond writing software and explore areas such as neural networks, computer graphics, algorithm analysis, or scientific applications. This knowledge is an important ingredient to professional development as it gives them the tools they need to analyze efficiency and evaluate various programming and data design options and to see the possible futures as computer science evolves. Simply providing them with skills necessary to enter the computing profession is not sufficient. Each student must be prepared to apply what he or she has learned in order to adapt to the inevitable changes that will occur. Each must also have the ability to learn new ideas and apply them.

Graduates of the Computer Science program are prepared to continue their education at the graduate level or to apply for entry-level positions in industry. Typical entry-level jobs are programmer or programmer/analyst positions.

Students interested in computing have several options. The interdisciplinary major in Computer Science offers an expanding array of theoretical and applied work that prepares software engineers ready to enter the job market or pursue graduate work. The minor in Computer Science offers ground in basic skills and an upper-level flexible approach that can be used to augment many majors, from business to the design arts and humanities. The Information Technology emphasis of the Information Sciences major prepares students for careers as IT professionals. Supporting courses in all these programs overlap so that students may explore their options without adding time to graduation.

All registered students have access to the University's computing facilities. Student accounts allow students to access a wide variety of both PC-compatible and Macintosh computers, Linux and database servers (for select courses), various software developer environments, and of course the internet. Also, because of the department's participation in the Microsoft Academic Alliance, those enrolled in Computer Science courses are also entitled to home-use rights for a variety of Microsoft products. Labs are open seven days per week and are staffed by consultants who provide assistance in using the facilities. Classrooms also have network connections which allow demonstrations of software and internet applications to be integrated with classroom lectures. There is also a Computer Science teaching lab with 28 workstations and display facilities that support Computer Science instruction.

Computer Science courses have a strict prerequisite structure. It is imperative that students learn what courses are prerequisites for others and when they are offered. Students are strongly encouraged to talk to an adviser very early in their college career.

Students seeking information on teacher certification should contact the Education Office.

- Computer Science Major (p. 95)
- Computer Science Minor (p. 95)

## Computer Science Major

<b>Supporting Courses</b>		36
COMM 133	Fundamentals of Public Address	
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication	
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 221	Database Design & Management	
COMP SCI 232	Introduction to Mobile Platforms and Apps	
COMP SCI 240	Discrete Mathematics	
COMP SCI 256	Introduction to Software Design	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		28-30
COMP SCI 316	Advanced Software Design	
COMP SCI 331	Internet Programming	
COMP SCI 351	Data Structures	
COMP SCI 353	Computer Architecture and Organization	
COMP SCI 371	Advanced Object-Oriented Design	
COMP SCI 372	Software Engineering	
COMP SCI 490	Capstone Essay in Computer Science	
<b>Electives (choose 2 courses):</b>		
COMP SCI 352	Computer Graphics and Animation	
COMP SCI 358	Data Communication and Computer Networks	
COMP SCI 360	Systems Analysis and Project Management	
COMP SCI 361	Information Assurance and Security	
COMP SCI 450	Theory of Algorithms	
COMP SCI 451	Advanced Database	
COMP SCI 452	Operating Systems Using Linux	
COMP SCI 464	Artificial Intelligence	
COMP SCI 474	Game Engines	
Total Credits		64-66

## Computer Science Minor

<b>Supporting Courses</b>		12
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 240	Discrete Mathematics	
COMP SCI 256	Introduction to Software Design	
<b>Upper-Level Courses</b>		13
COMP SCI 316	Advanced Software Design	
<b>Choose three upper-level Computer Science courses</b>		
Total Credits		25

## Democracy and Justice Studies

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Arts or Bachelor of Science)

**Professor** – Harvey J. Kaye

**Associate Professor** – Andrew Austin (chair)

**Assistant Professors** – Kristine Coulter, Yunsun Huh, Eric J. Morgan, Kim Reilly, Jon Shelton, Alison Staudinger

Democracy and Justice Studies explores diverse ideals and practices of democracy and justice in the United States and the world through interdisciplinary social and historical studies. Democracy and Justice Studies students look at how people past and present have sought in various ways to sustain and change political, economic, cultural, and social orders. We ask why and how societies develop and whether their political, economic, cultural and social relations and activities promote justice, freedom, equality, and democracy. By cultivating critical thinking and problem-focused thinking, we enable students to become engaged citizens and professionals.

Democracy and Justice Studies encourages students to put democracy and justice into action in the classroom, in internships, in research projects, in their volunteer lives, and in their eventual career choices. This program thus offers wide-ranging educational challenges and provides students with broadly applicable learning experiences useful for many career paths. Democracy and Justice Studies is encouraged and appropriate for individuals interested in graduate work in the social sciences, law school, journalism, international business, and a variety of careers related to community development, social justice, social and environmental activism, women's and gender equity, and other social issues.

Graduates work in a wide range of careers including business, domestic and international development, education, helping professions, journalism, law and criminal justice, library science, museum administration, philanthropy, and politics. Some have pursued advanced studies in fields such as anthropology, area studies, criminal justice, economics, history, international relations, law, library science, philosophy, political science, theology, and sociology.

Majors select an area of emphasis from among the following:

**American studies** addresses historical and contemporary political problems, public issues, social criticism and strategies for change in the United States.

**U.S. and the world** focuses on the influence of the United States and essential American ideals, including democracy, equality, and social justice, abroad.

**Law and justice studies** examines law and legal systems, both in the United States and around the world, and their relationship to justice and democracy.

**Women's and gender studies** explores historical and contemporary perspectives on women and gender, emphasizing the ways varied and changing gender roles affect economic and social opportunity.

Students seeking the interdisciplinary major or minor in Democracy and Justice Studies may choose to combine their programs with an appropriate disciplinary or interdisciplinary field of study. Among fields most relevant are anthropology, business, communication, economics, education, ethnic studies, First Nations studies, global studies, history, human development, journalism, political science, psychology, social work, sociology, urban and regional studies, and women's and gender studies.

We encourage students to study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>

## Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- American Studies (p. 97)
- Law and Justice Studies (p. 98)
- U.S. and the World (p. 99)
- Women's and Gender Studies (p. 101)
- Democracy and Justice Studies Minor (p. 102)

## Democracy and Justice Studies Major

### Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- American Studies (p. 97)
- Law and Justice Studies (p. 98)
- U.S. and the World (p. 99)



- Women's and Gender Studies (p. 101)

## American Studies Emphasis

### Supporting Courses

24-26

DJS 101	Introduction to Democracy and Justice Studies
ENG COMP 105	Expository Writing <sup>1</sup>
HISTORY 205	American History to 1865
HISTORY 206	History of the United States from 1865 to the Present
<b>Choose two of the following courses:</b>	
ANTHRO 100	Varieties of World Culture
DJS 204	Freedom and Social Control
DJS 241	Introduction to Women's & Gender Studies
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
POL SCI 100	Global Politics and Society
POL SCI 101	American Government and Politics
SOCIOL 202	Introduction to Sociology

**Choose one of the following Skill Subjects (6 credits minimum):** <sup>2</sup>

#### Subject A - Social Research (7 credits)

COMM SCI 205	Social Science Statistics
or MATH 260	Introductory Statistics
COMM SCI 301	Foundations for Social Research

**Subject B - Foreign Language (two semesters)** <sup>3</sup>

#### Subject C - Communication (6 credits)

COMM 133	Fundamentals of Public Address
COMM 290	Communication Problems and Research Methods

### Upper-Level Courses

24

DJS 349	American Political Thought
DJS 361	Historical Perspectives on American Democracy
DJS 362	Power and Change in America
DJS 363	Topics in Democracy and Justice
DJS 461	Social and Political Criticism
DJS 470	Senior Seminar in Democracy and Justice Studies

#### Elective Courses (choose 6 credits):

ART 376	Modern American Culture
DJS 303	Criminal Justice Process
DJS 307	History of Economic Thought
DJS 320	Constitutional Law
DJS 325	Law and Society
DJS 348	Gender and the Law
DJS 353	The U.S. and the World
DJS 365	U.S. Labor and the Working Class: Past and Present
DJS 371	Gender and Economic Justice
DJS 437	Feminist Theory
DJS 497	Internship
DJS 498	Independent Study
DJS 499	Travel Course
FNS 392	First Nations Justice and Tribal Governments
HISTORY 302	Problems in American Thought
HISTORY 322	Economic and Business History of the U.S.
HISTORY 354	History of Modern East Asia

HISTORY 356	History of Modern Africa
HISTORY 358	Political History of Modern Latin America
HISTORY 370	History of Sexuality in the U.S.
HISTORY 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
PHILOS 326	Philosophy, Politics and Law
POL SCI 312	Community Politics
POL SCI 340	Political Theory
POL SCI 353	Politics of Developing Areas
POL SCI 360	International Relations
PU EN AF 378	Environmental Law
SOCIOLOG 303	Race and Ethnic Relations
SOCIOLOG 307	Social Theory
SOCIOLOG 404	Criminology
UR RE ST 323	Asian American Communities in the United States
UR RE ST 324	Latino Communities in the United States

Total Credits

48-50

- 1 Satisfied for students with an ACT English score of 32 or higher
- 2 This skills requirement may be fulfilled with 6 credits of alternative courses selected in consultation with your faculty adviser.
- 3 Please review with your faculty adviser about language requirement. Courses in French, German and Spanish are available at UW-Green Bay.

## Law and Justice Studies Emphasis

### Supporting Courses

24-26

DJS 101	Introduction to Democracy and Justice Studies
DJS 204	Freedom and Social Control
ENG COMP 105	Expository Writing <sup>1</sup>
POL SCI 101	American Government and Politics
<b>Choose two of the following courses:</b>	
ANTHRO 100	Varieties of World Culture
DJS 241	Introduction to Women's & Gender Studies
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
HISTORY 205	American History to 1865
HISTORY 206	History of the United States from 1865 to the Present
PHILOS 102	Contemporary Ethical Issues
PHILOS 103	Logic and Reasoning
PHILOS 105	Justice and Citizenship in the Modern World
POL SCI 100	Global Politics and Society
SOCIOLOG 202	Introduction to Sociology
<b>Choose one of the following Skill Subjects (6 credits minimum): <sup>2</sup></b>	
<b>Subject A - Social Research (7 credits):</b>	
COMM SCI 205	Social Science Statistics
or MATH 260	Introductory Statistics
COMM SCI 301	Foundations for Social Research
<b>Subject B - Foreign Language (two semesters): <sup>3</sup></b>	
<b>Subject C - Communication (6 credits)</b>	
COMM 133	Fundamentals of Public Address
COMM 290	Communication Problems and Research Methods
<b>Upper-Level Courses</b>	
DJS 303	Criminal Justice Process

24

DJS 325	Law and Society
DJS 349	American Political Thought
DJS 361	Historical Perspectives on American Democracy
DJS 363	Topics in Democracy and Justice
DJS 470	Senior Seminar in Democracy and Justice Studies
<b>Choose 6 credits of the following elective courses:</b>	
ART 376	Modern American Culture
DJS 307	History of Economic Thought
DJS 320	Constitutional Law
DJS 348	Gender and the Law
DJS 353	The U.S. and the World
DJS 365	U.S. Labor and the Working Class: Past and Present
DJS 371	Gender and Economic Justice
DJS 437	Feminist Theory
DJS 497	Internship
DJS 498	Independent Study
DJS 499	Travel Course
FNS 392	First Nations Justice and Tribal Governments
HISTORY 302	Problems in American Thought
HISTORY 322	Economic and Business History of the U.S.
HISTORY 354	History of Modern East Asia
HISTORY 356	History of Modern Africa
HISTORY 358	Political History of Modern Latin America
HISTORY 370	History of Sexuality in the U.S.
HISTORY 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
PHILOS 326	Philosophy, Politics and Law
POL SCI 312	Community Politics
POL SCI 340	Political Theory
POL SCI 353	Politics of Developing Areas
POL SCI 360	International Relations
PU EN AF 378	Environmental Law
SOCIOL 303	Race and Ethnic Relations
SOCIOL 307	Social Theory
SOCIOL 404	Criminology
UR RE ST 323	Asian American Communities in the United States
UR RE ST 324	Latino Communities in the United States

Total Credits

48-50

- 1 Satisfied for students with an ACT English score of 32 or higher
- 2 Please consult with your faculty adviser about selection of 6 credits to fulfill this skills requirement.
- 3 Please review with your faculty advisor about language requirement. Courses in French, German and Spanish are available at UW-Green Bay.

## U.S. and the World Emphasis

### Supporting Courses

24-26

DJS 101	Introduction to Democracy and Justice Studies
ENG COMP 105	Expository Writing <sup>1</sup>
POL SCI 100	Global Politics and Society
POL SCI 101	American Government and Politics
<b>Choose two of the following courses:</b>	
ANTHRO 100	Varieties of World Culture

DJS 204	Freedom and Social Control
DJS 241	Introduction to Women's & Gender Studies
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
HISTORY 205	American History to 1865
HISTORY 206	History of the United States from 1865 to the Present
SOCIOL 202	Introduction to Sociology
<b>Choose one of the following Skill Subjects (6 credits minimum):</b> <sup>2</sup>	
<b>Subject A - Social Research (7 credits):</b>	
COMM SCI 205	Social Science Statistics
or MATH 260	Introductory Statistics
COMM SCI 301	Foundations for Social Research
<b>Subject B - Foreign Language (two semesters):</b> <sup>3</sup>	
<b>Subject C - Communication (6 credits)</b>	
COMM 133	Fundamentals of Public Address
COMM 290	Communication Problems and Research Methods
<b>Upper-Level Courses</b>	<b>24</b>
DJS 307	History of Economic Thought
DJS 349	American Political Thought
DJS 353	The U.S. and the World
DJS 361	Historical Perspectives on American Democracy
DJS 363	Topics in Democracy and Justice
DJS 470	Senior Seminar in Democracy and Justice Studies
<b>Elective Courses (choose 6 credits):</b>	
ART 376	Modern American Culture
DJS 303	Criminal Justice Process
DJS 320	Constitutional Law
DJS 325	Law and Society
DJS 348	Gender and the Law
DJS 365	U.S. Labor and the Working Class: Past and Present
DJS 371	Gender and Economic Justice
DJS 437	Feminist Theory
DJS 497	Internship
DJS 498	Independent Study
DJS 499	Travel Course
FNS 392	First Nations Justice and Tribal Governments
HISTORY 302	Problems in American Thought
HISTORY 322	Economic and Business History of the U.S.
HISTORY 354	History of Modern East Asia
HISTORY 356	History of Modern Africa
HISTORY 358	Political History of Modern Latin America
HISTORY 370	History of Sexuality in the U.S.
HISTORY 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
PHILOS 326	Philosophy, Politics and Law
POL SCI 312	Community Politics
POL SCI 340	Political Theory
POL SCI 353	Politics of Developing Areas
POL SCI 360	International Relations
PU EN AF 378	Environmental Law
SOCIOL 303	Race and Ethnic Relations
SOCIOL 307	Social Theory

SOCIOL 404	Criminology	
UR RE ST 323	Asian American Communities in the United States	
UR RE ST 324	Latino Communities in the United States	
Total Credits		48-50

- <sup>1</sup> Satisfied for students with an ACT English score of 32 or higher
- <sup>2</sup> Please consult with your faculty adviser about selection of 6 credits to fulfill this skills requirement.
- <sup>3</sup> Please review with your faculty advisor about language requirement. Courses in French, German and Spanish are available at UW-Green Bay.

## Women's and Gender Studies Emphasis

### Supporting Courses 24-26

DJS 101	Introduction to Democracy and Justice Studies
DJS 241	Introduction to Women's & Gender Studies
ENG COMP 105	Expository Writing <sup>1</sup>

#### Choose one of the following options:

HISTORY 205	American History to 1865
HISTORY 206	History of the United States from 1865 to the Present
POL SCI 101	American Government and Politics

#### Choose two of the following courses:

Student can choose HISTORY 205 or 206 or POL SCI 101 in this category if not used for requirement above	
ANTHRO 100	Varieties of World Culture
DJS 204	Freedom and Social Control
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
POL SCI 100	Global Politics and Society
POL SCI 101	American Government and Politics
SOCIOL 202	Introduction to Sociology

#### Choose one of the following Skill Subjects (6 credits minimum): <sup>2</sup>

##### Subject A - Social Research (7 credits)

COMM SCI 205	Social Science Statistics
or MATH 260	Introductory Statistics
COMM SCI 301	Foundations for Social Research

##### Subject B - Foreign Language (two semesters) <sup>3</sup>

##### Subject C - Communication (6 credits)

COMM 133	Fundamentals of Public Address
COMM 290	Communication Problems and Research Methods

### Upper-Level Courses 24

DJS 348	Gender and the Law
DJS 349	American Political Thought
DJS 361	Historical Perspectives on American Democracy
DJS 363	Topics in Democracy and Justice
DJS 371	Gender and Economic Justice
DJS 470	Senior Seminar in Democracy and Justice Studies

#### Elective Courses (choose 6 credits):

ART 376	Modern American Culture
DJS 303	Criminal Justice Process
DJS 307	History of Economic Thought
DJS 320	Constitutional Law
DJS 325	Law and Society
DJS 353	The U.S. and the World
DJS 362	Power and Change in America

DJS 365	U.S. Labor and the Working Class: Past and Present
DJS 437	Feminist Theory
DJS 461	Social and Political Criticism
DJS 497	Internship
DJS 498	Independent Study
DJS 499	Travel Course
FNS 392	First Nations Justice and Tribal Governments
HISTORY 302	Problems in American Thought
HISTORY 322	Economic and Business History of the U.S.
HISTORY 354	History of Modern East Asia
HISTORY 356	History of Modern Africa
HISTORY 358	Political History of Modern Latin America
HISTORY 370	History of Sexuality in the U.S.
HISTORY 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
PHILOS 326	Philosophy, Politics and Law
POL SCI 312	Community Politics
POL SCI 340	Political Theory
POL SCI 353	Politics of Developing Areas
POL SCI 360	International Relations
PU EN AF 378	Environmental Law
SOCIOL 404	Criminology
UR RE ST 323	Asian American Communities in the United States
UR RE ST 324	Latino Communities in the United States

Total Credits

48-50

- 1 Satisfied for students with an ACT English score of 32 or higher
- 2 Please consult with your faculty adviser about selection of 6 credits to fulfill this skills requirement.
- 3 Please review with your faculty adviser about language requirement. Courses in French, German and Spanish are available at UW-Green Bay.

## Democracy and Justice Studies Minor

### Supporting Courses

6

DJS 101	Introduction to Democracy and Justice Studies
<b>Choose one of the following courses:</b>	
ANTHRO 100	Varieties of World Culture
DJS 204	Freedom and Social Control
DJS 241	Introduction to Women's & Gender Studies
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
HISTORY 205	American History to 1865
HISTORY 206	History of the United States from 1865 to the Present
POL SCI 100	Global Politics and Society
POL SCI 101	American Government and Politics
SOCIOL 202	Introduction to Sociology

### Upper-Level Courses

12

DJS 349	American Political Thought
DJS 361	Historical Perspectives on American Democracy
DJS 363	Topics in Democracy and Justice
DJS 470	Senior Seminar in Democracy and Justice Studies

Total Credits

18

## Design Arts

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Arts)

**Associate Professors** – Jeffrey Benzow (coordinator), Toni Damkoehler  
**Lecturer** – Addie Sorbo

The Design Arts major is the study of the theory and practice of contemporary graphic design and environmental design. The graphic design curriculum includes a series of core courses in the history, applications, and influences of print, video, and interactive communications, while the environmental design area includes options for study in urban design and planning. The program emphasizes the design process as a creative decision-making tool. Students learn to develop and apply problem-solving methods and use design software and hardware along with traditional image-making and modeling techniques, to develop effective design solutions.

This major provides a contemporary liberal arts education and an array of skills for a range of careers and advanced study, including graphic design, advertising and marketing, publications management, art direction, creative direction, and multi-media and website design, among others. The environmental design focus provides opportunities in urban planning, graduate studies in architecture and environmental graphic design. The program has a practicum and internship component through which students can gain professional experience and portfolio development.

Students have access to a technology studio that features design and imaging software and hardware standard to the design profession. A general-access computer laboratory also supports the Design Arts program. Students have access to industry standard digital design software for producing illustrations, publication design as well as traditional model-building facilities.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

- Design Arts Major (p. 103)
- Design Arts Minor (p. 104)

## Design Arts Major

### Supporting Courses

27

#### Foundation Courses

ART 105	Introductory Drawing
ART 106	Design Methods
ART 107	Two-Dimensional Design
DESIGN 131	Introduction to Design and Culture
ENG COMP 105	Expository Writing
ART 210	Introduction to Painting
or ART 243	Introduction to Photography
or ART 270	Introduction to Printmaking

#### History and Theory (choose 9 credits):

##### History (choose a minimum of 3 credits):

ART 103	History of the Visual Arts II: Renaissance to Modern
ART 202	Concepts and Issues of Modern Art
ART 376	Modern American Culture

##### Theory (choose a minimum of 3 credits):

ART 378	World Art
DESIGN 375	Communication Skills: Language of Metaphor
UR RE ST 100	Introduction to Urban Studies

### Upper-Level Courses

24

#### Applied/Practicum Courses (choose a minimum of three credits):

DESIGN 435	Design Arts Publication Workshop
DESIGN 497	Internship
ENGLISH 324	Practicum in Literary Publishing

#### Choose Design Core Set 1 or 2:

##### Design Core Set 1

DESIGN 331	Graphic Design Studio I
DESIGN 332	Graphic Design Studio II
DESIGN 431	Graphic Design Studio III
<b>Design Core Set 2</b>	
DESIGN 436	Environmental Design Studio I
DESIGN 437	Environmental Design Studio II
DESIGN 438	Environmental Design Studio III
<b>Elective Courses (choose a minimum of twelve credits):<sup>1</sup></b>	
ART 302	Intermediate Drawing
ART 309	Intermediate Painting: Oil Painting
ART 311	Intermediate Painting: Contemporary Approaches
ART 343	Photography II
ART 344	Photography III
ART 375	Screen Printing
ART 402	Advanced Drawing
ART 410	Advanced Painting
ART 470	Advanced Printmaking
DESIGN 331	Graphic Design Studio I
DESIGN 332	Graphic Design Studio II
DESIGN 433	Advanced Studio (Multi-Media)
DESIGN 433	Advanced Studio (Web Design)
DESIGN 436	Environmental Design Studio I
DESIGN 437	Environmental Design Studio II
DESIGN 438	Environmental Design Studio III
DESIGN 439	Environmental Design Studio IV
UR RE ST 412	Urban and Regional Planning
<hr/>	
Total Credits	51

<sup>1</sup> Courses do not double count with Design Core Sets above.

## Design Arts Minor

<b>Supporting Courses</b>		9
ART 106	Design Methods	
ART 107	Two-Dimensional Design	
DESIGN 131	Introduction to Design and Culture	
<b>Upper-Level Courses</b>		12
DESIGN 331	Graphic Design Studio I	
DESIGN 332	Graphic Design Studio II	
<b>Elective courses (choose 6 credits):</b>		
ART 376	Modern American Culture	
ART 378	World Art	
COMM 430	Information, Media and Society	
DESIGN 375	Communication Skills: Language of Metaphor	
DESIGN 431	Graphic Design Studio III	
DESIGN 433	Advanced Studio	
DESIGN 435	Design Arts Publication Workshop	
DESIGN 436	Environmental Design Studio I	
DESIGN 437	Environmental Design Studio II	
DESIGN 438	Environmental Design Studio III	
DESIGN 439	Environmental Design Studio IV	
DESIGN 497	Internship	



FNS 301	Oneida Language I
HUM STUD 321	Language and Society
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 364	Musical Theatre History

Total Credits

21

## Economics

Disciplinary Major or Minor (p. 60)  
(Bachelor of Science)

**Professors** – Kumar Kangayappan (chair), John Stoll

**Associate Professor** – Thomas Nessler

**Assistant Professor** – Yunsun Huh

Economics focuses on the allocation and distribution of scarce resources. As a social science, economics is fundamentally about people — their needs, wants and behavior, and the institutions they construct.

As a discipline focusing on scarcity, economics includes the study of organizations and institutions that influence resource allocation, including businesses, governments, households, product markets, and the markets for land, labor, capital, and innovation, among others. Understanding these organizations provides insights into issues such as inflation, unemployment, government regulation, environmental degradation, poverty, and sustainable economic systems with or without growth.

Students who major or minor in Economics receive training in quantitative methods, economic theory, and applied economic analysis. Students can tailor their academic programs to fit their particular strengths, interests, and career goals.

Economics majors must choose an interdisciplinary minor or have a second major that is interdisciplinary. Many Economics majors at UW-Green Bay choose a minor or second major in Business Administration with emphases in marketing or finance. Other students select minors in one of the interdisciplinary social science programs, Environmental Science, or the humanities.

The broad training received by Economics students in incentive-based decision making creates a variety of career opportunities. Many UW-Green Bay Economics majors enter careers in business, government agencies, and nonprofit organizations directly after graduation. Individuals trained in economics are frequently employed by banks and investment firms, government agencies, market research firms, insurance companies, management consulting firms, advertising agencies, labor unions, and as private entrepreneurs. Economics graduates have been employed in real estate, land use planning, financial planning, credit and collection, advertising, management, statistics, systems analysis, politics and public administration. Many go on to graduate schools, where they receive advanced training in such fields as business, economics, law, public policy, and urban studies.

Students may also desire to become certified teachers. In such cases, programs should be designed jointly with appropriate advisers in both the Economics and Education programs at UW-Green Bay.

Students seeking information on teacher certification should contact the Education Office.

### This disciplinary major also requires:

Completion of an interdisciplinary major or minor (p. 58)

- Economics Major (p. 105)

### This disciplinary minor also requires:

Completion of an interdisciplinary major (p. 58)

- Economics Minor (p. 106)

## Economics Major

### This disciplinary major also requires:

- Completion of an interdisciplinary major or minor (p. 58)

### Supporting Courses

14-15

ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
ECON 207	Micro Economics Laboratory

**Choose one of the following courses:**

BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
MATH 260	Introductory Statistics

**Choose one of the following courses:**

MATH 201 or MATH 202	Calculus for the Management and Social Sciences Calculus and Analytic Geometry I
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**Upper-Level Courses**

24

ECON 302	Intermediate Macro Economic Theory
ECON 303	Intermediate Micro Economic Theory
ECON 307	History of Economic Thought
ECON 310	Introduction to Quantitative Analysis and Econometrics

**Choose four elective courses (no more than three courses with BUS ADM designation):**

BUS ADM 347	Financial Markets and Institutions
BUS ADM 442	Principles of Investment
BUS ADM 445	International Financial Management
BUS ADM 446	Advanced Corporation Finance
BUS ADM 447	Derivatives
BUS ADM 450	Bank Administration
ECON 304	Contemporary Labor Markets
ECON 305	Natural Resources Economic Policy
ECON 308	Business Cycles
ECON 309	Urban and Regional Economics
ECON 330	Money and Banking
ECON 340	Economics of Land Use
ECON 342	Community Economic Development
ECON 402	Environmental and Resource Economics
ECON 403	International Economics
ECON 406	Economics of Globalization
ECON 409	Public Finance and Fiscal Policy
ECON 412	Economics of Sustainability
ECON 453	Cost Benefit Analysis
ECON 485	Managerial Economics

Total Credits

38-39

## Economics Minor

**This disciplinary minor also requires:**

- Completion of an interdisciplinary major (p. 58)

**Supporting Courses**

9-10

ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis

**Choose one of the following courses:**

BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
MATH 201	Calculus for the Management and Social Sciences
MATH 260	Introductory Statistics

**Upper-Level Courses**

12

ECON 302 or ECON 303	Intermediate Macro Economic Theory Intermediate Micro Economic Theory
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**Choose 9 elective credits (no more than one course with BUS ADM designation) <sup>1</sup>**

Total Credits

21-22

<sup>1</sup> Choose 300-400 level courses from the upper-level course listings in the major.

## Education

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Science)

**Professor** - Thomas Harden, Sue Mattison

**Associate Professors** – Scott Ashmann, Timothy Kaufman, Mark Kiehn, Steve Kimball (chair), Pao Lor

**Assistant Professors** – Maria Aurora Cortes de Fulton, Christin DePouw, Mary Gichobi

**Senior Lecturer** – Art Lacey

**Lecturer** - Karen Eckhardt

UW-Green Bay's teacher education program is approved by the Wisconsin Department of Public Instruction. The program is designed to prepare entry-level teachers with relevant content, professional knowledge and skills to effectively meet the future learning needs of a changing school population.

At UW-Green Bay, students seeking early childhood (Early Childhood — Ages 0-8) or elementary-level (Early Childhood through Middle Childhood — Ages 0-11 or Middle Childhood through Early Adolescence — Ages 6-12/13) licensure are required to complete a major in Education. Students completing the Ages 6-12/13 license are also required to complete an approved minor. Graduates seeking these licenses receive a bachelor's degree in Education.

Students who desire secondary-level teaching licensure (Early Adolescence through Adolescence — Ages 10-21 or Early Childhood through Adolescence — All Ages) are required to complete a minor in Education to support a disciplinary major as required and approved by the Department of Public Instruction. Graduates seeking these licenses receive a bachelor's degree in their disciplinary major(s).

The interdisciplinary, problem-focused studies offered at UW-Green Bay provide uncommonly strong preparation for teaching. Students focus on excellence in the teaching/learning process through methods and field experience courses that provide the background, knowledge and instructional tools needed to become effective teachers. These studies complement strong academic coursework in communication, the arts, humanities, social studies, science and mathematics.

UW-Green Bay offers teacher license programs at these age levels:

- Early Childhood (Ages 0-8)
- Early Childhood through Middle Childhood (Ages 0-11)
- Middle Childhood through Early Adolescence (Ages 6-12/13)
- Early Adolescence through Adolescence (Ages 10-21)
- Early Childhood through Adolescence (All Ages)

Students may pursue a supplemental Bilingual/Bicultural Education and/or English as a Second Language license by completing a minor in Humanistic Studies with an emphasis in linguistics and any additional requirements set by the Wisconsin Department of Public Instruction. Contact the Professional Program in Education for a full list of certification requirements.

UW-Green Bay's teacher education program provides prospective teachers with an opportunity to work in a variety of educational settings throughout their program of study. These school-based experiences will include work with various ethnic, cultural and economic groups, and children with exceptional educational needs.

### Who Should Seek an Education Major or Minor?

To declare a major or minor in Education, students must first be admitted to the Professional Program in Education. The process and requirements are listed below. Students must enjoy being around children and adolescents. However, a love of children does not guarantee a love of teaching! Teaching is a demanding but extremely rewarding profession. The best teachers are those who pursue a love of learning that does not end at graduation. Teaching is a calling, a commitment to educating, and not just a job.

Students interested in pursuing an Education major or minor must have the ability to communicate, inspire trust and confidence, and motivate students, as well as understand their educational and emotional needs. They also should be organized, dependable, patient, and creative.

### Majors and Minors

For the student majoring in Education, a minor is required only when pursuing a Middle Childhood through Early Adolescence (Ages 6-12/13) license. Students thinking about teaching at the middle or high school level complete a minor in Education and major in the area they want to teach. Students must have a passion for their major program of study and a desire to actively engage others in the learning process.

### **Knowledge and Skills Gained in the Major and Minor**

The requirements for both the Education major and minor include courses that address today's concerns in education: changes in the schools and schooling, changes in the nature and nurture of students, and changes in society and the workplace. Early clinical experiences allow prospective teachers to observe and participate in actual educational settings. These experiences will often include working with students from various ethnic, cultural and economic groups, adult learners, and exceptional needs children.

Students will learn and understand the central concepts, tools, and structures of their discipline. Students will also understand how children learn and develop and how children differ in their learning abilities. Teaching techniques and strategies of instruction are taught not only to educate children on subject matter, but also in an effort to encourage critical thinking and problem-solving.

### **What Can You Do with a Major or Minor in Education?**

Education is a professional program, which primarily educates students to become entry-level teachers. However, there are many other career opportunities in education. The following are some but certainly not all of the career opportunities in the field of education: day care administrator, education management specialist, educational sales representative, education and training administrator, elementary school teacher, kindergarten teacher, librarian, preschool administrator, secondary school teacher, and tutor.

### **Program Admission Process and Requirements**

Admission to the program is a two-step process. The first step is to be admitted as a candidate. Step two is final admission to the program. Complete information about admission requirements and all application materials can be obtained from the Education Program Office.

Applications for candidacy must be completed and submitted near the beginning of each semester for admission starting the next semester. A committee of Education program faculty reviews applications and makes admission decisions based on the criteria described below. Meeting the minimum requirements does not guarantee admission as a program candidate.

The process and requirements for admission as a candidate in the Professional Program in Education are as follows:

1. Apply and be accepted to the University of Wisconsin-Green Bay.
2. Complete a minimum of twenty-eight (28) university credits with a cumulative grade point average of at least 2.75.
3. Meet one of test requirements listed below. Test scores cannot be more than five years old and an official score report must be submitted to the Education Program Office at the time of application.
  - a. Receive passing scores on all three sections of the Pre-Professional Skills Test (PPST) or the Core Academic Skills for Educators (CORE) exam.
  - b. A composite ACT score of 23 or higher with a minimum score of 20 in English, Math and Reading.
  - c. A composite SAT score of 1070 or higher with a minimum scores of 450 in Math and Verbal sections.
4. Complete EDUC 295 and EDUC 206.
5. Complete and submit an Application for Candidacy with supporting documentation to the UW-Green Bay Professional Program in Education.

Only students who are candidates can apply for final admission to the program. A committee of Education program faculty members reviews applications and makes decisions on final admission based on the criteria described below. Meeting the minimum requirements does not guarantee final admission to the program.

The process and requirements for full admission to the program are as follows:

1. Be admitted as a teacher education program candidate.
2. Successfully complete all required courses in candidacy block including EDUC 290 with a grade of B or better.
3. Complete and submit an Application for Admission to the Professional Education Program.
4. Submit the K-12 Teacher Recommendation Form to the Education Program Office.
5. Submit the UW-Green Bay Instructor Recommendation Form to the Education Office.

### **Teacher Licensing Requirements and Preparation**

Students planning to pursue a teaching license should contact the Education Program Office, (920) 465-2137. Teacher licensing requirements are very specific and require ample credit hours. Also, Department of Public Instruction requirements change from time-to-time, making program requirements subject to change. Students must meet any new requirements before a license will be awarded. Students are responsible for being aware of current licensure requirements.

In addition to the requirements listed here, there are regulations about time limits, grade point averages, test scores and other program completion requirements. Credit hours necessary to fulfill the requirements for specific licenses vary, depending upon the major and/or minor selected, age level licensure sought, and other factors. The Education Office can provide specific requirements.

Individuals who already hold a bachelor's degree and are interested in pursuing a teaching license should contact the Education Office regarding special requirements that apply to them.

Following are summaries of academic program components required for each of the five teaching licenses offered at UW-Green Bay. A detailed listing of specific licensure requirements can be obtained from the Education Program Office.

#### **Early Childhood (Ages 0-8) and Early Childhood through Middle Childhood (Ages 0-11)**

- UW-Green Bay general education requirements
- Interdisciplinary major in Education
- Professional education course sequence
- Student teaching

#### **Middle Childhood through Early Adolescence (Ages 6-12/13)**

- UW-Green Bay general education requirements
- Interdisciplinary major in Education
- Approved minor
- Professional education course sequence
- Student teaching

#### **Early Adolescence through Adolescence (Ages 10-21)**

- UW-Green Bay general education requirements
- Content area major
- Interdisciplinary minor in Education
- Professional education course sequence
- Student teaching

#### **Early Childhood through Adolescence (All Ages)**

- For licenses in art, music, foreign languages, theatre only
- UW-Green Bay general education requirements
- Selected content area major
- Interdisciplinary minor in Education
- Professional education course sequence
- Student teaching

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

- Education Major (p. 109)
- Education Minor (p. 110)

## **Education Major**

### **Supporting Courses**

22

EDUC 203	Environmental Education in K-12 Schools
EDUC 206	Cultural Images in Materials for Children and Adolescents
EDUC 280	Instructional Technologies: Evaluation, Production and Application
EDUC 290	Introduction to Educational Inquiry
EDUC 295	Special Topics (Phuture Phoenix Field Experience)
MATH 281	Conceptual Foundations of Elementary Mathematics I
MATH 282	Conceptual Foundations of Elementary Mathematics II

### **Upper-Level Courses**

27

EDUC 302	Teaching Social Studies in Elementary and Middle Schools	
EDUC 307	Teaching Reading in the Elementary and Middle Schools	
EDUC 309	Teaching Language Arts in the Elementary and Middle Schools	
EDUC 324	Teaching Mathematics in the Elementary and Middle Schools	
EDUC 325	Teaching Science in the Elementary and Middle Schools	
EDUC 326	Music, Movement and Core Arts Pedagogy	
EDUC 340	Supporting Learning and Behavior in the Classroom	
EDUC 361	Introduction to the Art and Science of Teaching	
EDUC 421	Literacy and Language Development in Young Children	
Total Credits		49

## Education Minor

### Supporting Courses 17

EDUC 206	Cultural Images in Materials for Children and Adolescents
EDUC 280	Instructional Technologies: Evaluation, Production and Application
EDUC 290	Introduction to Educational Inquiry
EDUC 295	Special Topics (Phuture Phoenix Field Experience)
MATH 101	Intermediate Algebra <sup>1</sup>

### Upper-Level Courses 15

EDUC 340	Supporting Learning and Behavior in the Classroom
EDUC 361	Introduction to the Art and Science of Teaching
EDUC 422	Reading in the Content Areas
EDUC 452	Principles of Middle Level Education

OR

**Art and Music majors with an Education minor will choose one of these courses as appropriate in place of EDUC 452:**

EDUC 303	Teaching Art in the Elementary and Middle Schools
or EDUC 334	Teaching General Music in the Elementary and Middle Schools

**Choose one of the following courses as appropriate:**

EDUC 310	Teaching Communication Arts in the Middle and Secondary Schools
EDUC 311	Teaching Foreign Languages (Course may be part of major requirement in French, German, and Spanish)
EDUC 312	Teaching Social Studies in the Middle and Secondary Schools
EDUC 313	Teaching Mathematics in Middle and Secondary Schools
EDUC 314	Teaching Science in Middle and Secondary Schools
EDUC 315	Teaching English as a Second Language
EDUC 316	Teaching Art in the Middle and Secondary Schools
EDUC 317	Teaching Music in the Middle and Secondary Schools

Total Credits 32

<sup>1</sup> This requirement can be waived with a Wisconsin Mathematics Placement Test score of MATH 104 or greater.

Students planning to pursue a teaching license should contact the Education Program office, (920) 465-2137, for the licensure requirements.

## Engineering Technology

Interdisciplinary Major (p. 58)  
(Bachelor of Science)

**Professors** – Patricia Terry, John Katers

**Assistant Professors** – Ryan Holzem, Mohammad Mahfuz, David Yan

### Program Mission

All of the Engineering Technology programs include a strong liberal arts base along with a number of hands-on experiences, including a capstone experience or internship that often will be working with businesses and organizations within the community.

## Electrical Engineering Technology

Prepares students for a career as an electrical engineering technologist with the technical and managerial skills necessary to enter careers in the design, application, installation, manufacturing, operation and maintenance of electrical/electronic systems. Students specialize in product improvement, manufacturing, construction and operational engineering functions.

View the Electrical Engineering Technology degree description (<http://www.uwgb.edu/engineeringtech/about/eet-technology/description.asp>)

## Environmental Engineering Technology

Responds to northeastern Wisconsin manufacturers and municipalities workforce needs, and addresses the 2010-2020 Bureau of Labor Statistics projections estimating a 14 percent increase in environmental engineering technology positions. Graduates are prepared to work in a number of industries both in and outside of manufacturing, such as in industrial waste treatment, water and wastewater management, agribusiness, environmental consulting, ecological evaluations and biotechnology sectors.

View the Environmental Engineering Technology degree description (<http://www.uwgb.edu/engineeringtech/about/env-technology/description.asp>)

## Mechanical Engineering Technology

Provides students with instruction and hands-on experience to develop competencies in applied mechanical engineering and analytical and critical problem-solving skills. Graduates and industry benefit from a more knowledgeable and flexible workforce that will fill positions in regional industries, manufacturing and engineering service firms.

View the Mechanical Engineering Technology degree description (<http://www.uwgb.edu/engineeringtech/about/mech-technology/description.asp>)

- Electrical Engineering Technology (p. 111)
- Environmental Engineering Technology (p. 112)
- Mechanical Engineering Technology (p. 113)

## Electrical Engineering Technology Major

### Supporting Courses

16-20

ET 101	Fundamentals of Engineering Technology
MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I (Algebra or calculus based equivalent) Principles of Physics I
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II (Algebra or calculus based equivalent) Principles of Physics II

### Fundamentals Group Courses

29

ET 105	Fundamentals of Drawing
ET 130	Basic Electrical Circuits I
ET 131	Basic Electrical Circuits II
ET 142	Introduction to Programming
ET 150	Codes, Safety, and Standards
ET 211	Digital Electronics
ET 232	Semiconductor Devices
ET 233	Linear Circuits
ET 240	Micro-controllers and Programmable Logic Controllers
ET 250	Signals and Systems

### Advanced Study Group Courses:

31

ET 324	Motors and Drives
ET 340	Advanced Programmable Logic Controllers
ET 342	Supervisory Control and Data Acquisition
ET 344	Human Machine Interface
ET 346	Electrical Power Systems
ET 348	Electromagnetic Fields and Applications
ET 350	Data Communication and Protocols

ET 360	Project Management	
ET 390	Mechatronics	
<b>Choose one of these:</b>		
ET 400 or ET 410	Co-op/Internship in Engineering Technology Capstone Project	
Total Credits		76-80

## Environmental Engineering Technology Major

<b>Supporting Courses</b>		34-39
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
ET 101	Fundamentals of Engineering Technology	
ET 103	Surveying	
ET 105	Fundamentals of Drawing	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I (Algebra or Calculus based equivalent) Principles of Physics I	
<b>Fundamentals Group Courses</b>		28
BIOLOGY 322	Environmental Microbiology	
ENV SCI 207	Laboratory Safety	
ET 118	Fluids I	
ET 201	Introduction to Air Quality	
ET 202	Introduction to Solid and Hazardous Waste	
ET 203	Introduction to Water and Waste Water	
ET/ENV SCI 320	The Soil Environment	
ET/ENV SCI 330	Hydrology	
ET 391	GIS	
GEOSCI 202	Physical Geology	
<b>Advanced Study Group Courses</b>		20
ET 360	Project Management	
<b>Choose a minimum of one course from the following course list:</b>		
ET 331/ENV SCI 335	Water and Waste Water Treatment	
ET/ENV SCI 334	Solid Waste Management	
ET 464	Course ET 464 Not Found	
<b>Choose a minimum of one course from the following course list</b>		
ECON 305	Natural Resources Economic Policy	
ET/ENV SCI 305	Environmental Systems	
ET/ENV SCI 323	Pollution Prevention	
ET 377	Industrial Safety and Hygiene	
ET/ENV SCI 415	Solar and Alternate Energy Systems	
ET 420	Lean Processes	
ET/ENV SCI 424	Hazardous and Toxic Materials	
ET/ENV SCI/GEOSCI 432	Hydrogeology	
ET/ENV SCI 433	Ground Water: Resources and Regulations	
PU EN AF 378	Environmental Law	
<b>Final Project:</b>		



ET 400                                      Co-op/Internship in Engineering Technology  
or ET 410                                      Capstone Project

## Mechanical Engineering Technology Major

### Supporting Courses

37

CHEM 211 & CHEM 213 & CHEM 212 & CHEM 214 or ET 206	Principles of Chemistry I and Principles of Chemistry I Laboratory and Principles of Chemistry II and Principles of Chemistry II Laboratory Chemistry for Engineers
ET 101	Fundamentals of Engineering Technology
ET 130	Basic Electrical Circuits I
MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
MATH 260	Introductory Statistics
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I Principles of Physics I
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II Principles of Physics II

### Fundamentals Group Courses

24

ENGR 213	Mechanics I
ENGR 214	Mechanics II
ET 105	Fundamentals of Drawing
ET 106	Parametric Modeling I
ET 116	Basic Manufacturing Processes
ET 118	Fluids I
ET 207	Parametric Modeling II
ET 220	Mechanics of Materials
ET 221	Machine Components

### Advanced Study Group Courses

28

CHEM 320	Thermodynamics and Kinetics
ENGR 301	Engineering Materials
ET 308	Finite Element Analysis
ET 318	Fluids II
ET 322	Design Problems
ET 324	Motors and Drives
ET 360	Project Management
ET 390	Mechatronics

### Final Project:

ET 400 or ET 410	Co-op/Internship in Engineering Technology Capstone Project
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Total Credits

89

## English

Disciplinary Major or Minor (p. 60)  
(Bachelor of Arts)

**Associate Professors** – Stefan Hall, Rebecca Meacham, Charles Rybak (chair), Brian Sutton

**Assistant Professor** – Rebecca Nesvet

Courses in English develop students' understanding of important works of American, English, and world literatures, give them awareness of – and appreciation for – our literary heritage, provide them with historical and theoretical perspectives, and deepen their insight into their own experience.

These courses also develop students' ability to express their ideas orally and in writing and to conduct research. The English program also offers courses in the writing of poetry and fiction, and an emphasis in creative writing.

Students enroll in English classes for a wide variety of reasons, ranging from personal growth and enrichment to preparation for a profession or career. Graduates in English have found employment in teaching, personnel work, public relations, business management, journalism, publishing, and many other fields requiring a strong liberal arts background and communication skills.

Students majoring in English must have an interdisciplinary minor. Students often select Humanistic Studies, Design Arts, or Arts Management, but may choose Human Development, Democracy and Justice Studies, or other appropriate programs. Students majoring in English who wish to teach in the secondary public schools must minor in Education.

Students seeking information on teacher certification should contact the Education Office.

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- Creative Writing (p. 114)
- English Education (p. 115)
- Literature (p. 116)

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

- English Minor (p. 117)

## English Major

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- Creative Writing (p. 114)
- English Education (p. 115)
- Literature (p. 116)

## Creative Writing Emphasis

**This disciplinary emphasis also requires:**

- Completion of an interdisciplinary major or minor (p. 58)

**Supporting Courses**

12

ENG COMP 105	Expository Writing <sup>1</sup>
ENGLISH 212	Introduction to Creative Writing
ENGLISH 290	Literary Studies

**And 3 credits of Literature (see Literature emphasis course list for choices)**

**Upper-Level Courses**

24

ENGLISH 301	Intermediate Creative Writing (minimum of 3 credits, is repeatable up to 6 credits)
ENGLISH 302	Short Fiction Writing Workshop
or ENGLISH 303	Advanced Poetry Writing Workshop
or ENGLISH 304	Creative Nonfiction Writing
or ENGLISH 305	Novel Writing Workshop
ENGLISH 324	Practicum in Literary Publishing
ENGLISH 431	Shakespeare

**Upper-level Literature courses (choose a minimum of 12 credits):** <sup>2</sup>

ENGLISH 315	The English Novel: 1700 to the 1850's
ENGLISH 316	The English Novel: 1850's to the Present

ENGLISH 320	Major Drama
ENGLISH 322	Major Poetry
ENGLISH 323	Topics in Literary Criticism
ENGLISH 331	Major American Prose Fiction
ENGLISH 333	Literary Themes
ENGLISH 335	Literary Eras
ENGLISH 336	American Ethnic Literature
ENGLISH 338	World Literatures
ENGLISH 340	History of the English Language
ENGLISH 344	African American Literature
ENGLISH 436	Major Author(s)

Total Credits

36

<sup>1</sup> Satisfied for students with ACT English score of 32 or higher.

<sup>2</sup> Some courses may vary by topic, so some of the above may be repeated for credit if the topic differs. See adviser for recommendations.

## English Education Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

### Supporting Courses

21

ENG COMP 105	Expository Writing <sup>1</sup>
or ENGLISH 212	Introduction to Creative Writing
ENGLISH 214	Introduction to English Literature I
ENGLISH 215	Introduction to English Literature II
or ENGLISH 316	The English Novel: 1850's to the Present
ENGLISH 216	Introduction to American Literature I
ENGLISH 217	Introduction to American Literature II
ENGLISH 290	Literary Studies
HUM STUD 160	Introduction to Language

### Upper-Level Courses

24

EDUC 319	Adolescent Literature in Middle and Secondary School Reading
ENGLISH 336	American Ethnic Literature
or ENGLISH 344	African American Literature
ENGLISH 431	Shakespeare
HUM STUD 321	Language and Society

**Choose a minimum of 3 credits of the following courses:** <sup>2</sup>

ENGLISH 218	World Literatures I
ENGLISH 219	World Literatures II
ENGLISH 338	World Literatures

**Choose a minimum of 9 credits of upper-level Literature elective courses:** <sup>3</sup>

ENGLISH 301	Intermediate Creative Writing
ENGLISH 302	Short Fiction Writing Workshop
ENGLISH 303	Advanced Poetry Writing Workshop
ENGLISH 304	Creative Nonfiction Writing
ENGLISH 315	The English Novel: 1700 to the 1850's
ENGLISH 316	The English Novel: 1850's to the Present
ENGLISH 320	Major Drama
ENGLISH 322	Major Poetry
ENGLISH 323	Topics in Literary Criticism
ENGLISH 331	Major American Prose Fiction
ENGLISH 333	Literary Themes

ENGLISH 335	Literary Eras
ENGLISH 336	American Ethnic Literature
ENGLISH 338	World Literatures
ENGLISH 340	History of the English Language
ENGLISH 344	African American Literature
ENGLISH 436	Major Author(s)

Total Credits

45

- 1 Satisfied for students with ACT English score of 32 or higher.
- 2 If ENGLISH 218 or ENGLISH 219 is taken to fulfill an upper-level requirement, an additional 3 credits must be taken from the upper-level Literature elective course list above.
- 3 Some courses may vary by topic, so some of the above may be repeated for credit if the topic differs. See adviser for recommendations.

## Literature Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

### Supporting Courses

12

ENG COMP 105	Expository Writing <sup>1</sup>
ENGLISH 290	Literary Studies
<b>Choose a minimum of 6 credits from the following supporting-level English electives:</b>	
ENGLISH 101	Introduction to Film
ENGLISH 104	Introduction to Literature
ENGLISH 206	Women in Literature
ENGLISH 212	Introduction to Creative Writing
ENGLISH 214	Introduction to English Literature I
ENGLISH 215	Introduction to English Literature II
ENGLISH 216	Introduction to American Literature I
ENGLISH 217	Introduction to American Literature II
ENGLISH 218	World Literatures I
ENGLISH 219	World Literatures II
ENGLISH 224	Practicum in Literary Publishing

### Upper-Level Courses

24

ENGLISH 431	Shakespeare
<b>Choose a minimum of 21 credits from the following upper-level English electives: <sup>2</sup></b>	
ENGLISH 301	Intermediate Creative Writing
ENGLISH 302	Short Fiction Writing Workshop
ENGLISH 303	Advanced Poetry Writing Workshop
ENGLISH 304	Creative Nonfiction Writing
ENGLISH 315	The English Novel: 1700 to the 1850's
ENGLISH 316	The English Novel: 1850's to the Present
ENGLISH 320	Major Drama
ENGLISH 322	Major Poetry
ENGLISH 323	Topics in Literary Criticism
ENGLISH 324	Practicum in Literary Publishing
ENGLISH 331	Major American Prose Fiction
ENGLISH 333	Literary Themes
ENGLISH 335	Literary Eras
ENGLISH 336	American Ethnic Literature
ENGLISH 338	World Literatures
ENGLISH 340	History of the English Language
ENGLISH 344	African American Literature

ENGLISH 436	Major Author(s)	
Total Credits		36

- 1 Satisfied for students with ACT English score of 32 or higher.
- 2 Because course content may vary, some of the above may be repeated for credit. See adviser.

The courses used to fulfill the required 6 credits of supporting-level English electives and the 21 credits of upper-level English electives must be distributed so that the five criteria below are satisfied.

## Criterion 1

Choose a minimum of 3 credits (either upper level or supporting level) from any primarily pre-1800 British literature course besides Shakespeare, such as:

ENGLISH 214	Introduction to English Literature I
ENGLISH 315	The English Novel: 1700 to the 1850's
ENGLISH 320	Major Drama
ENGLISH 335	Literary Eras

## Criterion 2

Choose a minimum of 3 credits (either upper level or supporting level) from any primarily post-1800 British literature course, such as:

ENGLISH 215	Introduction to English Literature II
ENGLISH 316	The English Novel: 1850's to the Present
ENGLISH 335	Literary Eras
ENGLISH 436	Major Author(s)

## Criterion 3

Choose a minimum of 6 credits (either upper level or supporting level) from any American literature course, such as:

ENGLISH 216	Introduction to American Literature I
ENGLISH 217	Introduction to American Literature II
ENGLISH 322	Major Poetry
ENGLISH 331	Major American Prose Fiction

## Criterion 4

Choose a minimum of 3 credits on the Study of Language, such as:

ENGLISH 340	History of the English Language
HUM STUD 321	Language and Society
Minimum of six credits of college-level, non-English language courses	

## Criterion 5

Choose a minimum of 3 credits (either upper level or supporting level) from any world literature course, such as:

ENGLISH 218	World Literatures I
ENGLISH 219	World Literatures II
ENGLISH 338	World Literatures

## English Minor

This disciplinary minor also requires:

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

12

ENG COMP 105	Expository Writing <sup>1</sup>
ENGLISH 214	Introduction to English Literature I
ENGLISH 290	Literary Studies

Choose one of the following:

ENGLISH 104	Introduction to Literature	
ENGLISH 206	Women in Literature	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 215	Introduction to English Literature II	
ENGLISH 216	Introduction to American Literature I	
ENGLISH 217	Introduction to American Literature II	
<b>Upper-Level Courses</b>		<b>12</b>
ENGLISH 431	Shakespeare	
<b>Choose 9 additional upper-level credits. See list in English major.</b>		
Total Credits		<b>24</b>

<sup>1</sup> Satisfied for students with ACT English score of 32 or higher.

## Environmental Policy and Planning

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Science)

**Professors** – Scott Furlong, John R. Stoll (chair)

**Associate Professors** – Ekaterina Levintova, Laurel E. Phoenix, Lora Warner

**Assistant Professors** – David Helpap, Aaron Weinschenk, Elizabeth Wheat

**Instructor** – Karen Dalke

Environmental Policy and Planning is an environmental studies program based in the social sciences. It is designed to prepare students for a variety of challenging professions involving the planning, analysis, design, and administration of policies and programs dealing with the natural and human-made environment. Students who major in Environmental Policy and Planning consider environmental challenges through the lens of law, politics, and economics. The program provides students with a solid background in environmental policy, environmental law, environmental planning, and an introduction to sustainable development and community-based environmental protection. It also prepares students for graduate work in environmental studies, public policy, public administration, law, urban and regional planning, and related fields.

Environmental Policy and Planning majors engage in both theoretical and applied study in their courses, and have flexibility to choose from different courses. Students may serve as interns in planning agencies in local governments, work with environmental organizations, or develop programs for sustainable communities. The two program emphases from which majors can choose are public policy and planning. While students must select one emphasis for their Environmental Policy and Planning major, students are also encouraged to take courses in the other emphasis.

The major in Environmental Policy and Planning consists of three sets of requirements: required supporting and analytical tool courses, an upper-level core of courses, and completion of courses within an area of emphasis. Other courses are recommended for majors. Students should discuss these recommended courses with their program advisers when establishing an academic plan.

The **public policy emphasis** focuses on environmental policy development and implementation; methods of policy analysis; and political, administrative, legal, and economic issues in environmental policy. It provides students with a strong background in the public policy and administrative aspects of environmental studies. This emphasis prepares students for employment in the public, nonprofit, and private market sectors as environmental policy analysts, specialists in public information, environmental management, government relations, and related careers, as well as for graduate work in environmental studies, public policy, public affairs, administration, and law.

The **planning emphasis** focuses on sustainable planning theory and methods, techniques in geographic information systems, land and resources use, and economic issues in environmental policy and planning. Students interested in developing skills in the planning and development of land at the community and regional levels, and in the economic issues of environmental policy and planning, may want to select this emphasis. It helps prepare students for careers and graduate work in environmental planning, urban and regional planning, community-based environmental management, geography, and related fields.

A minor in Environmental Policy and Planning is similar to the major in developing knowledge and skills in planning, decision-making, public policy, environmental sciences, political and economic processes, as well as the analytic capacities to participate in decision-making. An interdisciplinary minor in Environmental Policy and Planning is a good choice for students who wish to major in Environmental Science, Public Administration, Political Science, Economics, Urban and Regional Studies, Democracy and Justice Studies, or a number of other programs.

### Considering a Double Major or a Major and a Minor?

Some students may want to consider a double major, combining Environmental Policy and Planning with Public Administration. Other popular second majors include Political Science and Economics. A double major or a minor in one of these fields complements the Environmental Policy and Planning curriculum, and makes students stronger candidates when seeking careers or entry into graduate programs. A certificate in Environmental Sustainability

and Business is also available and fits well with a major or minor in Environmental Policy and Planning. Students should contact a faculty adviser early in their academic careers for advice on these options.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

## Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Planning Emphasis (p. 119)
- Public Policy Emphasis (p. 120)
- Environmental Policy and Planning Minor (p. 121)

## Environmental Policy and Planning Major

### Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Planning Emphasis (p. 119)
- Public Policy Emphasis (p. 120)

## Planning Emphasis

### Environmental Policy & Planning Major

#### Supporting Courses

21-22

#### Introductory Courses

ECON 203	Micro Economic Analysis
PU EN AF 102	Environment and Society
PU EN AF 250	Introduction to Geographic Information Systems (GIS)
POL SCI 101	American Government and Politics
or PU EN AF 202	Introduction to Public Policy

#### Choose one of the following courses:

BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
MATH 260	Introductory Statistics

#### Choose one of the following Environmental Science courses:

GEOSCI 102	Natural Hazards
ENV SCI 260	Energy and Society
GEOSCI 222	Ocean of Air: Weather and Climate

#### Upper-Level Courses

18

PU EN AF 301	Environmental Politics and Policy
PU EN AF 322	Environmental Planning
PU EN AF 378	Environmental Law
PU EN AF 380	Global Environmental Politics and Policy

#### Choose 6 credits of Upper-Level Environmental Science courses <sup>1</sup>

#### Capstone Course:

POL SCI 480	Senior Seminar/Capstone in Political Science
or PU EN AF 430	Seminar in Ethics and Public Action

#### Planning Emphasis

14

#### Required (5 credits total)

PU EN AF 350	GIS in Public and Environmental Policy
PU EN AF 450	Advanced Geographic Information Systems

#### Choose one of the following courses:

PU EN AF 321 or PU EN AF 351	Coastal Resources Policy and Management Water Resources Policy and Management
<b>Elective Courses (choose two of the following):</b>	
GEOG 353	Air Photo Interpretation
PU EN AF 321	Coastal Resources Policy and Management <sup>2</sup>
PU EN AF 323	Sustainable Land Use
PU EN AF 324	Transitioning to Sustainable Communities
PU EN AF 351	Water Resources Policy and Management <sup>2</sup>
PU EN AF 453	Cost Benefit Analysis
PU EN AF 497	Internship
Total Credits	53-54

<sup>1</sup> Students can choose any two upper-level (300-400) ENV SCI courses.

<sup>2</sup> Students may complete PU EN AF 321 and PU EN AF 351 to fulfill either requirement above, but may only use the course once per requirement in the major.

## Public Policy Emphasis

### Supporting Courses 21-22

<b>Introductory Courses</b>	
ECON 203	Micro Economic Analysis
PU EN AF 102	Environment and Society
PU EN AF 250	Introduction to Geographic Information Systems (GIS)
POL SCI 101 or PU EN AF 202	American Government and Politics Introduction to Public Policy
<b>Choose one of the following courses:</b>	
BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
MATH 260	Introductory Statistics
<b>Choose one of the following Environmental Science courses:</b>	
GEOSCI 102 or GEOSCI 202	Natural Hazards Physical Geology
ENV SCI 260	Energy and Society
GEOSCI 222	Ocean of Air: Weather and Climate

### Upper-Level Courses 18

PU EN AF 301	Environmental Politics and Policy
PU EN AF 322	Environmental Planning
PU EN AF 378	Environmental Law
PU EN AF 380	Global Environmental Politics and Policy
<b>Choose 6 credits of Upper-Level Environmental Science courses <sup>1</sup></b>	
<b>Capstone Course:</b>	
POL SCI 480 or PU EN AF 430	Senior Seminar/Capstone in Political Science Seminar in Ethics and Public Action

### Public Policy Emphasis 12

<b>Required</b>	
PU EN AF 408	Public Policy Analysis
<b>Elective Courses (choose three of the following):</b>	
PU EN AF 305/ECON 305	Natural Resources Economic Policy
PU EN AF 306	Regulatory Policy and Administration
PU EN AF 314	Administrative Law
PU EN AF 315	Public and Non-Profit Management
PU EN AF 321	Coastal Resources Policy and Management



PU EN AF 324	Transitioning to Sustainable Communities
PU EN AF 351	Water Resources Policy and Management
PU EN AF 379	Natural Resources Policy, Law, and Administration
PU EN AF 402	Environmental and Resource Economics
PU EN AF 406	State and Local Government
PU EN AF 428	Public and Nonprofit Program Evaluation
PU EN AF 453	Cost Benefit Analysis
PU EN AF 497	Internship
<hr/>	
Total Credits	51-52

<sup>1</sup> Students can choose any two upper-level (300-400) ENV SCI courses.

<sup>2</sup> Students may complete PU EN AF 321 and PU EN AF 351 to fulfill either requirement above, but may only use the course once per requirement to the major.

## Environmental Policy and Planning Minor

### Supporting Courses 15

ENV SCI 102	Introduction to Environmental Sciences
PU EN AF 250	Introduction to Geographic Information Systems (GIS)
<b>Choose three of the following courses:</b>	
ECON 203	Micro Economic Analysis
POL SCI 101	American Government and Politics
PU EN AF 102	Environment and Society
PU EN AF 202	Introduction to Public Policy
PU EN AF 215	Introduction to Public Administration

### Upper-Level Courses 15

PU EN AF 301	Environmental Politics and Policy
PU EN AF 322	Environmental Planning
<b>Choose three of the following courses:</b>	
ECON 305	Natural Resources Economic Policy
PU EN AF 306	Regulatory Policy and Administration
PU EN AF 321	Coastal Resources Policy and Management
PU EN AF 323	Sustainable Land Use
PU EN AF 324	Transitioning to Sustainable Communities
PU EN AF 350	GIS in Public and Environmental Policy
PU EN AF 351	Water Resources Policy and Management
PU EN AF 378	Environmental Law
PU EN AF 379	Natural Resources Policy, Law, and Administration
PU EN AF 380	Global Environmental Politics and Policy
PU EN AF 408	Public Policy Analysis
PU EN AF 497	Internship

Total Credits	30
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## Environmental Science

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Science)

**Professors** – Gregory J. Davis, Mathew Dornbush, Michael L. Draney, Heidi S. Fencil, Kevin J. Fermanich, Robert W. Howe, Tian-You Hu, John F. Katers (chair), John Luczaj, Gary L. Miller, Patricia A. Terry, Amy T. Wolf, Michael E. Zorn

**Associate Professors** – Atife Caglar, Franklin Chen, Woo Jeon, John M. Lyon, Michael McIntire, Steven Meyer, Julie M. Wondergem

**Assistant Professors** – Ryan Currier, Patrick Forsythe, Lisa Grubisha, Jeremy Intemann, Megan Olson Hunt

**Lecturers** – Theresa E. Adsit, Mary Guy, James Meyer, Nydia Villanueva

The Environmental Science major prepares students to analyze, understand, and solve environmental problems.

The Environmental Science major is interdisciplinary, emphasizing an integrated approach to knowledge in the field. Because the study of environmental problems requires a sound understanding of scientific principles, the Environmental Science major is grounded in the natural sciences and mathematics. The curriculum also includes a social science component, enabling students to gain an understanding of environmental economic and policy issues. Field experiences, internships, practicums, independent research and travel courses are also emphasized throughout the program.

This major helps students: 1) understand fundamental physical and biological processes of the natural environment; 2) recognize relationships between humans and ecosystems at local, regional, and global scales; 3) apply knowledge from multiple disciplines to environmental challenges and opportunities; 4) build practical skills for scientific problem-solving, including familiarity with laboratory and field instrumentation, ability to use current computer technologies, and experience in statistical modeling techniques; 5) demonstrate competency in collecting, managing, evaluating, interpreting, and communicating information through hands-on research; and 6) critically evaluate strategies for sustainable management and restoration of environmental systems. This major is designed for students who are seriously interested in environmental concerns and studies. Students who plan to pursue this major should emphasize science and mathematics in their course work. Courses in biology, chemistry, geoscience, mathematics, and physics provide the needed background.

While many universities are just beginning to recognize the need for environmental science programs, UW-Green Bay has over 40 years of teaching and research experience in the field. This Environmental Science program was one of the first in the nation and the interdisciplinary focus allows students to have a diverse education. They receive hands-on and practical learning experiences in both the laboratory and the field. A significant number of graduates of this major gain entry-level positions in the environmental science field. About one-third of these positions are in the public sector and two-thirds are in the private sector, including positions with industry, business, and engineering consulting firms. Numerous graduates have also successfully completed master's and doctoral degrees.

Faculty members are actively addressing environmental problems and their solutions through research at the regional, national and international levels. This research keeps them up to date on current trends and topics in the field, while providing opportunities for undergraduates to become involved in their research projects and gain valuable knowledge and experience. Faculty members are highly involved in the students' education, both inside and outside of the classroom.

Environmental Science students have access to modern computer facilities which are continually upgraded. Computing software resources emphasizing geographic information systems (GIS) and mathematical modeling and statistical analysis tools also are available. In addition to general-access computer laboratories, students can also use a computer laboratory dedicated to the sciences. Students wishing to gain hands-on field experiences have access to the Cofrin Center for Biodiversity which includes the 290-acre Cofrin Memorial Arboretum on campus, several natural areas in the region, the Gary A. Fewless Herbarium, and the Richter Museum of Natural History. The latter two facilities have recently moved to a new and expanded space.

A variety of equipment is available for environmental measurements and monitoring. Laboratory instrumentation enhances student opportunities to perform chemical analyses which are important in environmental monitoring. Such instrumentation includes mass spectrometers, infrared and UV-visible spectrophotometers, nuclear magnetic resonance spectrometers, gas chromatographs, ion chromatographs, and high-performance liquid chromatographs. In addition to opportunities to monitor air and surface-water quality, students also have the opportunity to monitor ground water; three wells have been drilled on campus specifically for that purpose.

As industries recognize their responsibility to help create and maintain a sustainable environment, often achieving efficiencies in the process, they create positions dealing with waste management, pollution reduction, and other environmental responsibilities. Many UW-Green Bay Environmental Science graduates find employment in these industries or go on to advanced study in environmental science or other scientific disciplines. The following list represents some careers that have been pursued by Environmental Science graduates: agricultural scientist, botanist, ecologist, forest ranger, oceanographer, agricultural technician, engineering technician, forester, air and water quality manager, environmental analyst, park ranger, air pollution analyst, environmental consultant, environmental educator, geologist, project manager, environmental engineer, geophysicist, biologist, hazardous waste manager, hydrologist, environmental lawyer, chemical technician, soil conservation technician, chemist, management consultant, teacher, meteorologist, urban and regional planner, civil engineer, environmental planner, microbiologist/wastewater plant operator, natural resource specialist, wildlife manager, conservationist, zoologist.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

- Environmental Science Major (p. 122)
- Environmental Science Minor (p. 123)

## Environmental Science Major

### Supporting Courses

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution

CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
ENV SCI 102	Introduction to Environmental Sciences
GEOSCI 202	Physical Geology
MATH 260	Introductory Statistics
POL SCI 101 or POL SCI 202	American Government and Politics Introduction to Public Policy
<b>Mathematics (choose one of the following courses):</b>	
MATH 104	Elementary Functions: Algebra and Trigonometry
MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
<b>Upper-Level Courses</b> <sup>1</sup>	<b>37</b>
ENV SCI 302	Principles of Ecology
ENV SCI 303	Environmental Sustainability
ENV SCI 305	Environmental Systems
ENV SCI 336	Environmental Statistics
ENV SCI 337	Environmental GIS
ENV SCI 338	Environmental Modeling
ENV SCI 339	Scientific Writing
ENV SCI 467	Capstone in Environmental Science
<b>Choose one of the following courses:</b>	
ENV SCI 460	Resource Management Strategy
PU EN AF 301	Environmental Politics and Policy
PU EN AF 378	Environmental Law
<b>Elective Courses (choose 9 credits):</b>	
ENV SCI 301	Radioactivity: Past, Present, and Future
ENV SCI 318	Pollution Control
ENV SCI 320	The Soil Environment
ENV SCI 323	Pollution Prevention
ENV SCI 325	Regional Climatology
ENV SCI 330	Hydrology
ENV SCI 335	Water and Waste Water Treatment
ENV SCI 415	Solar and Alternate Energy Systems
ENV SCI 421	Geoscience Field Trip
ENV SCI 425	Global Climate Change
ENV SCI 432	Hydrogeology
ENV SCI 460	Resource Management Strategy
ENV SCI 469	Conservation Biology
ENV SCI 491	Senior Thesis/Research in Environmental Science
ENV SCI 492	Practicum in Environmental Science

Total Credits

73

<sup>1</sup> Students intending to pursue graduate study should include additional course work of at least one year of calculus, at least one year of physics, and upper-level courses in organic chemistry.

## Environmental Science Minor

The application of scientific principles to resource management form the core of the minor. An Environmental Science minor is particularly appropriate in combination with a major in one of the sciences or Mathematics.

<b>Supporting Courses</b> <sup>1</sup>		7
ENV SCI 102	Introduction to Environmental Sciences	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		12
ENV SCI 303	Environmental Sustainability	
<b>Choose 9 additional credits in upper-level ENV SCI courses</b> <sup>2</sup>		
Total Credits		19

<sup>1</sup> Additional courses may be necessary to satisfy prerequisites for the upper-level elective courses that a student selects.

<sup>2</sup> Upper-level 300 to 400 Environmental Science (ENV SCI) courses.

## First Nations Studies

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Arts)

**Associate Professor** – Lisa Poupart (chair)

**Assistant Professor** – J P Leary

**Instructor** – Forrest Brooks

First Nations Studies is an interdisciplinary degree program that reflects the holistic worldview of the indigenous people of Turtle Island (North America). First Nations Studies is committed to the study of First Nations culture, philosophy, history, language, and the social, economic, and political status of indigenous people and their communities. The program is designed to preserve and promote the identity and sovereign status of indigenous people through the study and practice of decolonization. The program places particular emphasis on the nations in our region, the Western Great Lakes.

First Nations Studies incorporates the teaching and learning approaches of tribal people, offering students a new way to learn within the academy. The program places emphasis on the oral tradition of First Nations people as preserved and shared by tribal Elders. Students take part in oral traditional learning experiences within the university classroom and, also, in tribal communities learning from tribal people. First Nations Studies teaching and learning is centered on the four areas of learning in the tribal world – history, culture, sovereignty, laws and policies, and indigenous philosophy.

The program is of interest to both American Indian and non-Indian students who wish to learn more about the traditional cultures and knowledge of indigenous people as well as the changes experienced by First Nations as a result of Euro-American contact.

The program offers a major and a minor. The minor strengthens numerous degrees including those in Business, History, Education, Social Work, Psychology, and the natural and social sciences. The degrees prepare students to live and work in an increasingly diverse community and also equip students with skills to work collaboratively and effectively with tribal governments and businesses.

- First Nations Studies Major (p. 124)
- First Nations Studies Minor (p. 125)

## First Nations Studies Major

<b>Supporting Courses</b>		9
<b>Required Core Courses</b>		
FNS 225	Introduction to First Nations Studies: The Tribal World	
FNS 226	Introduction to First Nations Studies: Social Justice	
<b>Oral Emphasis:</b>		
FNS 216 or FNS 224	Native American Landscapes: Imagined and Lived Spaces First Nations and The Sacred	
<b>Upper-Level Courses</b>		27
FNS 391	First Nations Studies Seminar	
<b>First Nations Policy:</b>		
FNS 392 or FNS 393	First Nations Justice and Tribal Governments First Nations and Education Policy	
<b>Oral Emphasis (complete one of the following 12 credit options):</b>		
<b>Option 1 Oneida Language Project</b>		
FNS 301	Oneida Language I	
FNS 302	Oneida Language II	

FNS 303	Oneida Language III
FNS 304	Oneida Language IV
<b>Option 2</b>	
FNS 399	First Nations Studies Oral Tradition Concentration (Repeatable 3-12 credits)
<b>Option 3</b>	
FNS 301	Oneida Language I
FNS 399	First Nations Studies Oral Tradition Concentration (Repeatable 3-12 credits)
<b>Elective Courses (choose 9 credits):</b> <sup>1</sup>	
FNS 301	Oneida Language I
FNS 302	Oneida Language II
FNS 303	Oneida Language III
FNS 304	Oneida Language IV
FNS 336	American Ethnic Literature
FNS 360	Women and Gender in First Nations Communities
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory
FNS 385	Perspectives on Human Values: First Nations
FNS 392	First Nations Justice and Tribal Governments
FNS 393	First Nations and Education Policy
FNS 399	First Nations Studies Oral Tradition Concentration
FNS 497	Internship
FNS 498	Independent Study
FNS 299/499	Travel Course
HUM STUD 350	Interdisciplinary Study of Great Works (Indigenous Intellectuals topic only)
EDUC 795: American Indian Studies Summer Institute <sup>2</sup>	

Total Credits

36

<sup>1</sup> Courses do not double count with Oral Emphasis options above.<sup>2</sup> EDUC 795 is offered by the Division of Outreach and Extension.

## First Nations Studies Minor

### Supporting Courses

6

FNS 225	Introduction to First Nations Studies: The Tribal World
FNS 226	Introduction to First Nations Studies: Social Justice

### Upper Level Courses

15

FNS 391	First Nations Studies Seminar
<b>Policy Requirement:</b>	
FNS 392	First Nations Justice and Tribal Governments
or FNS 393	First Nations and Education Policy
<b>Elective Courses (choose 9 credits):</b> <sup>1</sup>	
FNS 301	Oneida Language I
FNS 302	Oneida Language II
FNS 303	Oneida Language III
FNS 304	Oneida Language IV
FNS 336	American Ethnic Literature
FNS 360	Women and Gender in First Nations Communities
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory
FNS 385	Perspectives on Human Values: First Nations
FNS 392	First Nations Justice and Tribal Governments
FNS 393	First Nations and Education Policy

FNS 399	First Nations Studies Oral Tradition Concentration
FNS 497	Internship
FNS 498	Independent Study <sup>2</sup>
FNS 299/499	Travel Course

Total Credits

21

<sup>1</sup> Courses do not double count with Policy Requirement courses above.

<sup>2</sup> Requires approval of First Nations Studies adviser.

## French and Francophone Studies

Disciplinary Major or Minor (p. 60)  
(Bachelor of Arts)

### ***\*The major/minor in French is not currently available until further notice***

**Professors** – Gabriel Saxton-Ruiz (Interim Chair)

The French and Francophone Studies program is designed to help students develop practical language skills while they learn about the literature, culture and people of France and the French-speaking world. Knowing French opens the door to all the other cultures of the world where French is widely spoken — in Africa, the Middle East, Europe, Indochina.

French is the only language other than English spoken on five continents. Like English, French is truly a global language. French is the first or second language in over 40 countries, France is the world's sixth largest economy, and is the official working language of the United Nations, UNESCO, NATO, the International Olympic Committee and many more similarly important world organizations. According to the most recent U.S. Census, 1.9 million Americans speak French in the home.

In recent years, the U.S. was the second largest direct investor in France, and in 2002, France was the second largest foreign investor in the U.S. French is the foreign language spoken by our largest trading partner (Canada). In 2000, the United States exported more to countries having French as a national language than to countries having any other foreign language. Exports to Canada alone in that year were greater than the combined exports to all countries south of the United States. Among foreign countries doing business in the U.S., France employs the third largest number of Americans.

The world invests in France: In 2003, France was the second largest destination of foreign investment in the world. France is a leader in science and technology (nuclear physics, AIDS research, automobiles, electronics, aerospace, transportation, telecommunications and more). More tourists visit France than any other country in the world.

The broad training that is part of a program in French and Francophone Studies (including written and oral communication skills, reading and analyzing texts, history, geography and social studies) is an excellent means to personal growth and intellectual enrichment. It is also a fine preparation for entrance into the professional world. French and Francophone Studies majors have developed successful careers in many areas of business, the service professions (such as law or teaching), and government.

Along with the regularly scheduled array of courses, the French and Francophone Studies program also offers students the opportunity to earn degree credits while studying abroad. UW-Green Bay sponsors a semester program in Bordeaux and, with faculty approval, accepts credits from numerous other study-abroad programs. On campus, students can have frequent contact with authentic cultural materials both inside and outside the classroom via the internet, the latest multimedia equipment, and international television and radio reception.

French and Francophone Studies majors will also choose an interdisciplinary minor. Those interested in a broad humanities background often choose the interdisciplinary major or minor in Humanistic Studies. Other interdisciplinary programs in, for example, business, international business, social sciences, education, or the arts, combine with the French and Francophone Studies major to form a strong, coherent academic program. Students seeking teacher certification must be admitted to the Education Program and should contact the Education Office for information and further requirements.

Students who begin their French and Francophone Studies at UW-Green Bay should enroll in FRENCH 101. The normal sequence of language courses is:

FRENCH 101	Introduction to the French Language I	4
FRENCH 102	Introduction to the French Language II	4
FRENCH 201	Intermediate French Language I	3
FRENCH 202	Intermediate French Language II	3
FRENCH 225	Intermediate French Conversation and Composition	3
FRENCH 325	Advanced French Conversation and Composition	3

Those who have studied French in high school should select a course appropriate to their level by counting a year of high school work as equivalent to one semester of college work, or they should consult a French adviser. Students seeking teacher certification must be admitted to the Education Program and should contact the Education Office for information and further requirements.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

## Retroactive Credit

Degree seeking students who have taken a second language in high school or who have acquired knowledge of a second language elsewhere may earn up to 14 additional credits for their previous language study by completing a foreign language course beyond 101 level. With a grade of "B" or better, credit will be given in that language for all of the courses in that language preceding the one in which the student has enrolled, to a maximum of 14 credits; with a grade of "BC" or "C," half-credit will be given for the courses preceding the one in which the student has enrolled, to a maximum of seven credits.

For example, with four years of high school French, students who complete FRENCH 225, with a grade of "B" will receive 14 retroactive credits for FRENCH 101, FRENCH 102, FRENCH 201, and FRENCH 202 in addition to the three credits for FRENCH 225; students who complete the course with a "C" will receive seven retroactive credits for FRENCH 101 (2 of the total 4 credits), FRENCH 102 (2 of the total 4 credits), FRENCH 201 (1.5 of the total 3 credits), and FRENCH 202 (1.5 of the total 3 credits).

Requests for retroactive credits in a student's native language are not generally accepted.

**To determine eligibility for retroactive credit, students must consult with the appropriate language program chair or course instructor who will advise them regarding which foreign language course they should take. If a student meets the criteria above, the course instructor must complete the Retroactive Credit Form and submit it to the Registrar's Office. The appropriate courses and corresponding credits will then be recorded on the student's transcript.**

Retroactive credit will not be awarded based on a student's performance on any sort of test. This includes, but is not limited to, AP, CLEP, or Challenge exams. Retroactive foreign language credits may only be earned by satisfactorily passing a course at UW-Green Bay or through an approved College Credit in the High School program as described above.

Retroactive credits earned at any UW System institution or from St. Norbert College courses will be honored and granted to transfer students. Retroactive foreign language credits awarded by other institutions will not be granted to students who transfer to UW-Green Bay. Students may request an exception to this policy by submitting a written appeal to the language coordinator of the department they wish to receive credit from.

If you're repeating a course, contact the French and Francophone Studies program chair for further information on retroactive credits.

**This disciplinary major also requires:**

***\*The major/minor in French is not currently available until further notice***

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- French and Francophone Studies Emphasis (p. 128)
- French and Francophone Studies Emphasis for Students Seeking Teaching Certification (p. 128)

**This disciplinary minor also requires:**

***\*The major/minor in French is not currently available until further notice***

Completion of an interdisciplinary major (p. 58)

Completion of one of the following areas of emphasis:

- French and Francophone Studies Emphasis (p. 129)
- French and Francophone Studies Emphasis for Students Seeking Teaching Certification (p. 130)

## French and Francophone Studies Major

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- French and Francophone Studies (p. 128) Emphasis (p. 128)
- French and Francophone Studies Emphasis for Students Seeking Teaching Certification (p. 128)

## French and Francophone Studies Emphasis for Students Seeking Teaching Certification

This disciplinary emphasis also requires:

- Admission to the Education Program.
- Completion of the interdisciplinary minor in Secondary Education.
- An oral proficiency exam successfully completed before student can be approved for student teaching.
- Student is required to spend an appropriate period of time in a country where French is spoken or participate in an approved immersion program.

### Supporting Courses

6

FRENCH 202	Intermediate French Language II
FRENCH 225	Intermediate French Conversation and Composition

### Upper-Level Courses

27

EDUC 311	Teaching Foreign Languages
FRENCH 325	Advanced French Conversation and Composition <sup>1</sup>
FRENCH 329	Representative French Authors <sup>1</sup>
FRENCH 345	Advanced French Grammar and Translation
FRENCH 346	French Phonetics and Public Speaking
FRENCH 354	France Today
or FRENCH 355	Le Monde Francophone
FRENCH 329	Representative French Authors <sup>1</sup>
or FRENCH 333	Literary Themes

### Elective Courses (choose 6 credits):

FRENCH 329	Representative French Authors <sup>1</sup>
FRENCH 333	Literary Themes <sup>1</sup>
FRENCH 354	France Today
FRENCH 355	Le Monde Francophone
FRENCH 367	Business French
FRENCH 498	Independent Study
FRENCH 499	Travel Course

Total Credits

33

<sup>1</sup> Some upper-level courses can be repeated for credit when course topic varies. See adviser.

## French and Francophone Studies Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

### Supporting Courses

6

FRENCH 202	Intermediate French Language II
FRENCH 225	Intermediate French Conversation and Composition

### Upper-Level Courses

24

FRENCH 325	Advanced French Conversation and Composition <sup>1</sup>
FRENCH 329	Representative French Authors <sup>1</sup>

Choose one of the following:

FRENCH 354	France Today
or FRENCH 355	Le Monde Francophone



**Choose one of the following:**

FRENCH 329	Representative French Authors <sup>1</sup>
or FRENCH 333	Literary Themes

**Choose 12 credits from the following electives:**

FRENCH 329	Representative French Authors <sup>1</sup>
FRENCH 333	Literary Themes <sup>1</sup>
FRENCH 345	Advanced French Grammar and Translation
FRENCH 346	French Phonetics and Public Speaking
FRENCH 354	France Today
FRENCH 355	Le Monde Francophone
FRENCH 367	Business French
FRENCH 498	Independent Study (in advanced language, literature, or cultural studies; with adviser's consent)
FRENCH 499	Travel Course

Total Credits

30

<sup>1</sup> Some upper-level courses can be repeated for credit when course topic varies. See adviser.

## French and Francophone Studies Minor

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

Completion of one of the following areas of emphasis:

- French and Francophone Studies Emphasis (p. 129)
- French and Francophone Studies Emphasis for Students Seeking Teaching Certification (p. 130)

## French and Francophone Studies Emphasis

**This disciplinary emphasis also requires:**

- Completion of an interdisciplinary major (p. 58)

**Supporting Courses**

6

FRENCH 202	Intermediate French Language II
FRENCH 225	Intermediate French Conversation and Composition

**Upper-Level Courses**

12

FRENCH 325	Advanced French Conversation and Composition <sup>1</sup>
FRENCH 329	Representative French Authors <sup>1</sup>

**Elective Courses (choose 6 credits):**

FRENCH 329	Representative French Authors <sup>1</sup>
FRENCH 333	Literary Themes <sup>1</sup>
FRENCH 345	Advanced French Grammar and Translation
FRENCH 346	French Phonetics and Public Speaking
FRENCH 354	France Today
FRENCH 355	Le Monde Francophone
FRENCH 367	Business French
FRENCH 498	Independent Study (in advanced language, literature, or cultural studies; with adviser's consent)
FRENCH 499	Travel Course

Total Credits

18

<sup>1</sup> Some upper-level courses are repeatable for credit when course topic varies. See adviser.

# French and Francophone Studies Emphasis for Students Seeking Teaching Certification

This disciplinary emphasis also requires:<sup>1</sup>

- Admission to the Education Program.
- Completion of the interdisciplinary major in Education.
- An oral proficiency exam successfully completed before student can be approved for student teaching.
- Student is required to spend an appropriate period of time in a country where French is spoken or participate in an approved immersion program.

## Supporting Courses

6

FRENCH 202	Intermediate French Language II
FRENCH 225	Intermediate French Conversation and Composition

## Upper-Level Courses

18

EDUC 311	Teaching Foreign Languages
FRENCH 325	Advanced French Conversation and Composition <sup>2</sup>
FRENCH 329	Representative French Authors <sup>2</sup>
FRENCH 345	Advanced French Grammar and Translation
FRENCH 346	French Phonetics and Public Speaking
<b>Elective Courses (choose 3 credits):</b>	
FRENCH 354	France Today
FRENCH 355	Le Monde Francophone

Total Credits

24

<sup>1</sup> French and Francophone studies is a disciplinary major. If the teaching emphasis in the minor is completed, the interdisciplinary requirement is met for degree completion.

<sup>2</sup> Some upper-level courses are repeatable for credit when course topic varies. See adviser.

## Geography

Disciplinary Minor (p. 60)

**Associate Professors** – Marcelo Cruz, Laurel E. Phoenix (chair)

**Assistant Professors** – Adam Parrillo, Rachel Russell

Geography is an academic discipline that systematically studies the location, variation and interrelations of natural and cultural features of the earth. Its study exemplifies the University's mission to emphasize interdisciplinary, problem-focused education because Geography examines the world and its problems with a view to comprehensive understanding and critical thinking.

Geography students gain a broad education encompassing the sciences and the liberal arts.

Geography offers technical training for students who wish to work as professional geographers in government or industry, and provides background for advanced work in business, economics, history, planning, political science, the humanities, or in the biological and earth sciences, depending upon a student's individual needs. Students who want preparation to teach should seek advice early from advisers in Geography and Education to make sure they complete all requirements.

Geography minors combine their studies with an interdisciplinary major. Depending on their career goals, students might effectively combine Geography with programs in Business Administration, Environmental Policy and Planning, Urban and Regional Studies, Human Development, Democracy and Justice Studies, or Humanistic Studies.

Students in Geography can expect to become acquainted with current technology in the field through courses introducing them to the concepts and uses of geographic information systems (GIS). In addition, students develop spatial analytical skills that are applied to problem solving projects. In this light, students are encouraged to gain practical experience through internships with local agencies and organizations in the region and through practical course projects.

Students are also encouraged to take advantage of the opportunities offered in the two travel courses offered under Urban and Regional Studies that will satisfy the Geography minor. Students apply what they learn in the classroom to the international experience. Geography minors study urban

and regional issues in Ecuador, South America and the Galapagos Islands. Students seeking information on teacher certification should contact the Education Office.

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

- Geography Minor (p. 131)

## Geography Minor

**This disciplinary minor also requires:**

- Completion of an interdisciplinary major (p. 58)

**Supporting Courses**

6

GEOG 250	Displays of Geographic Information
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**Choose one of the following courses:**

GEOG 102	World Regions and Concepts: A Geographic Analysis
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GEOG 210	Human Geography and Concepts
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GEOSCI 202	Physical Geology
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PU EN AF 102	Environment and Society
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**Upper-Level Courses**<sup>1</sup>

12

**Courses selected must come from at least two of the following areas:**

**Physical Geography**

ENV SCI 320	The Soil Environment
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GEOG 325	Regional Climatology
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GEOG 470	Quaternary Geology
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**Human Geography**

GEOG 341	The City and its Regional Context
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**Regional Geography**

GEOG 321	Coastal Resources Policy and Management
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GEOG 370	Geography of South America
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UR RE ST 499	Travel Course
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**Geographic Techniques**

GEOG 350	GIS in Public and Environmental Policy
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GEOG 351	Elements of Cartography
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GEOG 353	Air Photo Interpretation
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GEOG 450	Advanced Geographic Information Systems
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Total Credits

18

<sup>1</sup> Internships and independent study opportunities are available with faculty approval.

## Geoscience

Disciplinary Major or Minor (p. 60)  
(Bachelor of Science)

**Professor** - Kevin Fermanich (interim chair), John Luczaj

**Associate Professors** – Steven Meyer

**Assistant Professor** – Ryan Currier

Geoscience is the study of Earth materials (e.g., rocks, minerals, soil, water, and air), the processes that shape and alter those components, and the interplay between the biosphere and the Earth. The program strongly emphasizes the fundamentals of geoscience, but also places special emphasis on groundwater management, soils, and other earth system processes.

The Geoscience program takes an application-focused, interdisciplinary approach, known as earth system science, in which the physical environment is investigated as many interacting systems. Earth system science emphasizes the interactions between the different systems that make up the Earth. Although earth system science is considered a new approach at many institutions, it has been an integral part of the Geoscience program since the very

founding of UW-Green Bay. Interested students should also check Environmental Science course listings for several courses on soils, field geology, and ground water.

Geoscientists can find career opportunities in state and federal government agencies, consulting firms, and private industry. Demand for geoscientists will continue into the future, as demand for resources and energy grow with increasing population. Furthermore, responsible mining practices, remediation of contaminated sites, and forecasting the evolution of Earth conditions requires well-trained geoscientists with a broad understanding of how the Earth works.

Students interested in planning, natural resource or land management, or environmental policy issues typically select interdisciplinary minors in Environmental Science, Public and Environmental Affairs, or Urban and Regional Studies. For those interested in an earth system science perspective in business, Geoscience may also be combined with Business Administration. Many states and localities now require geoscience in their curricula, and high schools offering geoscience courses, in addition to the traditional science courses, is becoming the norm. Geoscience education includes geology, astronomy, oceanography, and weather and climate — with the goal of fostering a better understanding of our home, and encouraging responsible stewardship of our planet. Those seeking teacher certification can pursue several options:

- They can pursue a broad-field science certification in Education and take Geoscience courses to match their interests and employment goals.
- Students interested in elementary and middle school teaching can take an Education major and Geoscience minor.
- Students interested in teaching at the secondary level can take a Geoscience major and Education minor.

All Education students should consult with advisers in Geoscience and Education early in their studies to make sure that their academic program meets all state requirements for certification. Careful planning is essential since the Education course requirements are substantial and state requirements change periodically. Students seeking teacher certification in Geoscience should seriously consider satisfying the certification requirements in another discipline as well, because certification in additional fields will increase their employment opportunities.

#### **This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following area of emphasis:

- Geoscience Emphasis (p. 132)
- Geoscience Emphasis for Students Seeking Teaching Certification (p. 133)

#### **This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

Completion of one of the following area of emphasis:

- Geoscience Emphasis (p. 134)
- Geoscience Emphasis for Students Seeking Teaching Certification (p. 134)

## **Geoscience Major**

#### **This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following area of emphasis:

- Geoscience Emphasis (p. 132)
- Geoscience Emphasis for Students Seeking Teaching Certification (p. 133)

## **Geoscience Emphasis**

#### **This disciplinary emphasis also requires:**

- Completion of an interdisciplinary major or minor (p. 58)

#### **Supporting Courses**

CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
GEOSCI 202	Physical Geology

GEOSCI 203	Geologic Evolution of the Earth
GEOSCI 204	Geologic Evolution of the Earth Laboratory
MATH 202	Calculus and Analytic Geometry I
MATH 260	Introductory Statistics
PHYSICS 201	Principles of Physics I
COMM 133 or ENG COMP 105	Fundamentals of Public Address Expository Writing
<b>Upper-Level Courses</b>	
ENV SCI 320	The Soil Environment
ENV SCI 330	Hydrology
GEOSCI 340	Introduction to Mineralogy & Petrology
GEOSCI 432	Hydrogeology
<b>Choose 12 credits from the following courses:</b>	
ENV SCI 421	Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit)
ENV SCI 425	Global Climate Change
GEOSCI 301	Introduction to Geoscience Field Methods
GEOSCI 402	Sedimentology & Stratigraphy
GEOSCI 470	Quaternary Geology
GEOSCI 492	Special Topics in Earth Science <sup>1</sup>
<b>Total Credits</b>	

26

60

<sup>1</sup> Course topics vary. Typical topics include structural geology, ore deposits and geomorphic processes. Offerings of different topics can be repeated for credit.

## Geoscience Emphasis for Students Seeking Teaching Certification

This disciplinary emphasis also requires:

- Admission to the Education Program
- Completion of the minor in Secondary Education

### Supporting Courses <sup>1</sup>

26-27

CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
ENV SCI 141	Astronomy
GEOSCI 202	Physical Geology
GEOSCI 203	Geologic Evolution of the Earth
GEOSCI 204	Geologic Evolution of the Earth Laboratory
GEOSCI 222	Ocean of Air: Weather and Climate
<b>Choose two of the following courses:</b>	
MATH 104	Elementary Functions: Algebra and Trigonometry
MATH 202	Calculus and Analytic Geometry I
MATH 260	Introductory Statistics
COMM 133 or ENG COMP 105	Fundamentals of Public Address Expository Writing
<b>Upper-Level Courses</b>	
ENV SCI 320	The Soil Environment
ENV SCI 330	Hydrology
GEOSCI 340	Introduction to Mineralogy & Petrology
GEOSCI 432	Hydrogeology
<b>Choose 12 credits from the following courses:</b>	
ENV SCI 421	Geoscience Field Trip
ENV SCI 425	Global Climate Change
GEOSCI 301	Introduction to Geoscience Field Methods

26

GEOSCI 402	Sedimentology & Stratigraphy	
GEOSCI 470	Quaternary Geology	
GEOSCI 492	Special Topics in Earth Science <sup>2</sup>	
Total Credits		52-53

<sup>1</sup> Candidates for teacher certification are strongly urged to also take CHEM 212 and CHEM 214.

<sup>2</sup> Course topics vary. Typical topics include structural geology, ore deposits, and geomorphic processes. Offerings of different topics can be repeated for credit.

## Geoscience Minor

### This disciplinary minor also requires:

Completion of an interdisciplinary major (p. 58)

Completion of one of the following area of emphasis:

- Geoscience Emphasis (p. 134)
- Geoscience Emphasis for Students Seeking Teaching Certification (p. 134)

## Geoscience Emphasis

### This disciplinary emphasis also requires:

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

20

GEOSCI 202	Physical Geology	
GEOSCI 203	Geologic Evolution of the Earth	
<b>At least 5 credits of Chemistry at the 100-200 level</b>		
<b>Choose two of the following courses:</b>		
MATH 104	Elementary Functions: Algebra and Trigonometry	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	

### Upper-Level Courses

12

GEOSCI 340	Introduction to Mineralogy & Petrology	
<b>Choose at least 8 additional credits from the upper-level course list for the Geoscience major</b>		

Total Credits 32

## Geoscience Emphasis for Students Seeking Teaching Certification

### This disciplinary emphasis also requires:

- Admission to the Education Program.
- Completion of the interdisciplinary major in Education

### Supporting Courses <sup>1</sup>

19

GEOSCI 202	Physical Geology	
GEOSCI 203	Geologic Evolution of the Earth	
GEOSCI 222	Ocean of Air: Weather and Climate	
<b>At least 5 credits of Chemistry at the 100-200 level</b>		
<b>Choose one of the following courses:</b>		
MATH 104	Elementary Functions: Algebra and Trigonometry	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	

**Upper-Level Courses**

12

GEOSCI 340	Introduction to Mineralogy & Petrology
or GEOSCI 402	Sedimentology & Stratigraphy

**Choose at least 9 credits from the upper-level course list for the Geoscience major.**

Total Credits

31

<sup>1</sup> Candidates for teacher certification are strongly urged to also take CHEM 212 and CHEM 214.

## German

Disciplinary Major or Minor (p. 60)  
(Bachelor of Arts)

**Professors** – David Coury (chair), Jennifer Ham

The German program provides students with the opportunity to develop communication skills in both written and spoken German along with an understanding of and appreciation for German literature and culture. Students developing linguistic and cultural proficiencies are challenged by a curriculum which includes a variety of courses in beginning, intermediate and advanced language, literature, cinema, culture, business and translation studies, as well as travel courses, independent study courses, and internship experiences.

Although many students choose to study German primarily for personal growth and intellectual enrichment, the program is designed to prepare students to enter a variety of careers in, for example, teaching, business, industry and government, and to provide a basis for further study at the graduate level. German language and culture studies are of great professional value in such fields as international business, communications, translating and interpreting, personnel work, public relations, management, education, music, art, philosophy, law, history, anthropology, theology, social work, politics and the travel industry. Furthermore, proficiency in a modern language and understanding of other cultures are essential for peace and prosperity in a mutually interdependent world.

All students in the German program are strongly encouraged to spend as much time as possible in German-speaking cultures; to study a semester or a year at UW-Green Bay's German exchange university, Kassel Universität or at another university in Hessen; and/or to participate in the summer travel course in Germany. Students have the opportunity to interact with German exchange students, attend film series and weekly German conversation tables, and to participate in a variety of German Club events and trips. The UW-Green Bay Language Resource Center has interactive audio-visual equipment, computers, and international television reception to support students' language acquisition and cultural awareness.

Students majoring in German will also choose an interdisciplinary minor. Most German students interested in the humanities usually choose the interdisciplinary program in Humanistic Studies; students interested in teaching may choose an Education minor; those interested in business often choose Business Administration or International Business; and those interested in communication fields or creative fields usually choose a minor in Design Arts or Arts Management. Depending on their personal preferences and career goals, students may find other interdisciplinary programs appropriate, such as Human Development or Democracy and Justice Studies.

Students who are beginning their study of German should enroll in Introduction to GERMAN 101. Students with previous German study should select a course appropriate to their level — GERMAN 102, GERMAN 201, GERMAN 202 or GERMAN 225 — by counting a year of high school work as equivalent to a semester of college work, or they should consult the German adviser.

Students seeking teacher certification must be admitted to the Education Program and should contact the Education Office for information and further requirements.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

## Retroactive Credit

Degree seeking students who have taken a second language in high school or who have acquired knowledge of a second language elsewhere may earn up to 14 additional credits for their previous language study by completing a foreign language course beyond the 101 level. With a grade of "B" or better, credit will be given in that language for all of the courses in that language preceding the one in which the student has enrolled, to a maximum of 14 credits; with a grade of "BC" or "C," half-credit will be given for the courses preceding the one in which the student has enrolled, to a maximum of seven credits.

For example, with four years of high school German, students who complete GERMAN 225, with a grade of "B" will receive 14 retroactive credits for GERMAN 101, GERMAN 102, GERMAN 201, and GERMAN 202 in addition to the three credits for GERMAN 225; students who complete the course with a "C" will receive seven retroactive credits for GERMAN 101 (2 of the total 4 credits), GERMAN 102 (2 of the total 4 credits), GERMAN 201 (1.5 of the total 3 credits), and GERMAN 202 (1.5 of the total 3 credits).

Requests for retroactive credit in a student's native language are not generally accepted.

**To determine eligibility for retroactive credit, students must consult with the appropriate language program chair or course instructor who will advise them regarding which foreign language course they should take. If a student meets the criteria above, the course instructor must complete the Retroactive Credit Form and submit it to the Registrar's Office. The appropriate courses and corresponding credits will then be recorded on the student's transcript.**

Retroactive credit will not be awarded based on a student's performance on any sort of test. This includes, but is not limited to, AP, CLEP, or Challenge exams. Retroactive foreign language credits may only be earned by satisfactorily passing a course at UW-Green Bay or through an approved CCHS program as described above.

Retroactive credits earned at any UW System institution or from St. Norbert College courses will be honored and granted to transfer students. Retroactive foreign language credits awarded by other institutions will not be granted to students who transfer to UW-Green Bay. Students may request an exception to this policy by submitting a written appeal to the language coordinator of the department they wish to receive credit from.

If you're repeating a course, contact the German program chair for further information on retroactive credits.

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- German Emphasis (p. 136)
- German Emphasis for Students Seeking Teaching Certification (p. 137)

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

Completion of one of the following area of emphasis:

- German Emphasis (p. 138)
- German Emphasis for Students Seeking Teaching Certification (p. 138)

## German Major

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following area of emphasis:

- German Emphasis (p. 136)
- German Emphasis for Students Seeking Teaching Certification (p. 137)

## German Emphasis

**This disciplinary emphasis also requires:**

- Completion of an interdisciplinary major or minor (p. 58)

**Supporting Courses**

6

GERMAN 202	Intermediate German Language II
GERMAN 225	Intermediate German Conversation and Composition

**Upper-Level Courses**

24

GERMAN 325	Advanced German Conversation and Composition
GERMAN 329	Representative German Authors <sup>1</sup>

**Choose 6 credits from the following courses:** <sup>2</sup>

GERMAN 355	Deutsche Kultur und Landeskunde
GERMAN 356	German Culture
GERMAN 499	Travel Course

**Choose 6 credits from the following courses:**



GERMAN 333	Literary Themes
GERMAN 335	Literary Eras
GERMAN 350	Major German Drama
GERMAN 351	Major German Prose Fiction
GERMAN 352	Major German Poetry
<b>Choose 6 credits from the courses listed above or additional courses below:</b>	
GERMAN 345	Advanced German Grammar
GERMAN 357	German Cinema
GERMAN 420	Business German
GERMAN 425	German Translation Studies
GERMAN 498	Independent Study

Total Credits

30

<sup>1</sup> Some upper-level courses may be repeated for credit when course content varies. See adviser.

<sup>2</sup> Students interested in studying abroad for one or more semesters should register for the placeholder course GERMAN 485.

## German Emphasis for Students Seeking Teaching Certification

This disciplinary emphasis also requires:

- Admission to the Education Program.
- Completion of the minor in Secondary Education.
- An oral proficiency exam successfully completed before student can be approved for student teaching.
- Student is required to spend an appropriate period of time in a country where German is spoken or participate in an approved immersion program.

### Supporting Courses

6

GERMAN 202	Intermediate German Language II
GERMAN 225	Intermediate German Conversation and Composition

### Upper-Level Courses

27

EDUC 311	Teaching Foreign Languages
GERMAN 325	Advanced German Conversation and Composition
GERMAN 329	Representative German Authors <sup>1</sup>
GERMAN 345	Advanced German Grammar
GERMAN 485	Study Abroad: Germany
or GERMAN 499	Travel Course

**Choose 3 credits of the following courses:**

GERMAN 355	Deutsche Kultur und Landeskunde
GERMAN 356	German Culture
GERMAN 357	German Cinema

**Choose 3 credits of the following courses:**

GERMAN 333	Literary Themes
GERMAN 335	Literary Eras
GERMAN 350	Major German Drama
GERMAN 351	Major German Prose Fiction
GERMAN 352	Major German Poetry

**Choose 6 credits of Elective courses:**

Select from any 300-400 German upper level courses

Total Credits

33

<sup>1</sup> Some upper-level courses may be repeated for credit when course content varies. See adviser.

## German Minor

This disciplinary minor also requires:

Completion of an interdisciplinary major (p. 58)

Completion of one of the following area of emphasis:

- German Emphasis (p. 138)
- German Emphasis for Students Seeking Teaching Certification (p. 138)

## German Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

6

GERMAN 202	Intermediate German Language II
GERMAN 225	Intermediate German Conversation and Composition

### Upper-Level Courses

12

GERMAN 325	Advanced German Conversation and Composition
GERMAN 329	Representative German Authors <sup>1</sup>

### Elective courses (choose 6 credits): <sup>2</sup>

GERMAN 333	Literary Themes
GERMAN 335	Literary Eras
GERMAN 345	Advanced German Grammar
GERMAN 350	Major German Drama
GERMAN 351	Major German Prose Fiction
GERMAN 352	Major German Poetry
GERMAN 355	Deutsche Kultur und Landeskunde
GERMAN 356	German Culture
GERMAN 357	German Cinema
GERMAN 420	Business German
GERMAN 425	German Translation Studies
GERMAN 499	Travel Course

Total Credits

18

<sup>1</sup> Some upper-level courses are repeatable for credit when course topic varies. See adviser.

<sup>2</sup> It is recommended that only one of the two courses, GERMAN 356 or GERMAN 357, be used to fulfill requirements for the minor.

## German Emphasis for Students Seeking Teaching Certification

This disciplinary emphasis also requires:

- Admission to the Education Program.
- Completion of a major in Education.
- An oral proficiency exam successfully completed before student can be approved for student teaching.
- Student is required to spend an appropriate period of time in a country where German is spoken or participate in an approved immersion program.

### Supporting Courses

6

GERMAN 202	Intermediate German Language II
GERMAN 225	Intermediate German Conversation and Composition

### Upper-Level Courses

18

EDUC 311	Teaching Foreign Languages
GERMAN 325	Advanced German Conversation and Composition
GERMAN 329	Representative German Authors <sup>1</sup>
GERMAN 345	Advanced German Grammar
GERMAN 485 or GERMAN 499	Study Abroad: Germany Travel Course

**Elective courses (choose 3 credits):**

GERMAN 333	Literary Themes
GERMAN 335	Literary Eras
GERMAN 350	Major German Drama
GERMAN 351	Major German Prose Fiction
GERMAN 352	Major German Poetry
GERMAN 355	Deutsche Kultur und Landeskunde
GERMAN 356	German Culture
GERMAN 357	German Cinema
GERMAN 420	Business German
GERMAN 425	German Translation Studies

Total Credits

24

<sup>1</sup> Some upper-level courses may be repeated for credit when course content varies. See adviser.

## Global Studies

Interdisciplinary Minor (p. 58)

**Professors** – Lucy Arendt, David Coury, Matt Dornbush, Kevin Fermanich, Sarah Meredith Livingston, Cristina Ortiz

**Associate Professors** – Tohoro Akakpo, Marcelo Cruz, Clifton Ganyard, Ekaterina Levintova (chair), Steve Meyer, Gabriel Saxton-Ruiz, Heidi Sherman, Christine Vandenhouten

**Assistant Professors** – Eric Morgan

The interdisciplinary minor in Global Studies encourages students to become aware of how contemporary political, economic, social, and environmental problems affect vast regions and diverse communities. The curriculum links global awareness to local concerns, emphasizes the responsibilities of democratic citizenship, and engages the challenges of human rights and justice, values and ethics, resource flows, cultural resistances, and environmental crises. The requirements of 24 credits complement general education at the introductory level, promote sharp thematic study in the upper-level core, and encourage practical experiences outside the classroom.

Key questions are: What is globalization? What accounts for the phenomena of globalization? When did the world's polity, economy, environment, culture, and society become global? What analytical tools exist to help students understand globalization's influence on politics, cultures, values and ecosystems?

An interdisciplinary introduction provokes students to think about how globalization touches their lives and to analyze distinct responses to globalization's effects on societies, governments and natural resources. Introductory courses are drawn from existing general education requirements. Students should check carefully the prerequisites for upper-level courses in the minor before choosing lower-level general education courses.

Global Studies upper-level core courses help students acquire knowledge about globalization from a variety of interdisciplinary perspectives, historical experiences, and cultural preferences. Core requirements address the implications of globalization for citizens, states and communities around the world, include surveys of recent literature, and strengthen communication skills and critical thinking.

Students are encouraged to participate in travel courses and study abroad offered by the University. Some travel courses contain global content and may be applied to the Global Studies minor. Please contact an adviser concerning appropriateness of a specific travel course. At least two years of a modern foreign language is strongly recommended.

- Global Studies Minor (p. 139)

## Global Studies Minor

### Supporting Courses

9

ENV SCI 102	Introduction to Environmental Sciences
GEOG 102	World Regions and Concepts: A Geographic Analysis

#### Choose one of the following courses:

ANTHRO 100	Varieties of World Culture
HUM STUD/HISTORY 103	World Civilizations I
HUM STUD/HISTORY 104	World Civilizations II
MUSIC 272	Women in the Performing Arts
POL SCI 100	Global Politics and Society
PU EN AF 102	Environment and Society

UR RE ST 201 City Life and Globalization

**Upper-Level Courses**

15

**Choose five courses from the thematic categories below. At least three courses must be from different categories.****Global Democracy: institutions and citizenship**

DJS/ECON 307	History of Economic Thought
HISTORY 358	Political History of Modern Latin America
HISTORY 470	Studies in Comparative History
POL SCI 351	Comparative Politics
POL SCI 360	International Relations

**Global Environmental Sustainability: natural resources, biodiversity and climate change**

ECON 412	Economics of Sustainability
ENV SCI 303	Environmental Sustainability
ENV SCI 425	Global Climate Change
POL SCI 380	Global Environmental Politics and Policy

**Global Human Security: basic human needs and services**

HISTORY 450	War and Civilization
HUM DEV 342	Cross Cultural Human Development
NURSING 492	Special Topics in Nursing
Topic: Global Aspects of Healthcare	
PSYCH 350	Psychology and Culture
UR RE ST 320	Cities in Cinema

**Global Peoples: nationality, ethnicity, race and religion**

GEOG 370	Geography of South America
HISTORY 337	The Rise of Islamic Civilization to 1800
HISTORY 354	History of Modern East Asia
HISTORY 356	History of Modern Africa
HUM STUD 360	Globalization and Cultural Conflict
POL SCI 353	Politics of Developing Areas

Total Credits

24

## Health Information Management and Technology

Interdisciplinary Major (p. 58)  
(Bachelor of Science)

**Associate Professors** – Peter Breznay, Janet Reilly

**Assistant Professor** – Brenda Tyczkowski (Academic Director)

**Lecturer** – Rebecca Hovarter

**Associate Lecturers**– Shauna Froelich, Amy Henniges, Patricia Kleba, Ben Kotenberg, Elizabeth Rockendorf

The Bachelor of Science in Health Information Management and Technology (HIMT) is designed to provide students with the knowledge and competencies required to meet the growing need for professionals to work in this rapidly expanding and evolving area of health care. The degree focuses on the information sector of the healthcare industry because it is one of the fastest growing and evolving segments of the industry. The new advances in health-related technologies, patient records, etc. bring with them new regulations and new concerns for privacy and security. Highly skilled professionals are needed to manage this area, and graduates of the HIMT degree will be very well positioned to meet that need. The online program is designed to meet the needs of adult learners.

HIMT is a degree completion program designed for adult learners who already have some college credits or a liberal arts-based associate degree. It is also ideal for adults who have completed a bachelor's degree in another domain and seek a second bachelor's in HIMT to gain entry to this high-growth field. You may be eligible for admission to this program if you have completed approximately 60 semester credits of transferable general education coursework with a 2.0 or better grade point average (GPA).

Additional admission requirements include completion of Introductory College Algebra, Introductory Biology, and Introductory Communications, or their equivalents, passed with grades of C or better; and completion of UW-Green Bay's lower-level General Education Program requirements.

The HIMT program will prepare knowledgeable and skillful professionals to assume leadership positions within the public and private sectors. Within organizations, a HIMT professional will be able to manage and administer health information technologies that span across divisions, departments and businesses.

Graduates of the HIMT program will be able to:

- Demonstrate knowledge of healthcare billing, coding and reimbursement policies.
- Demonstrate knowledge of healthcare terminology and medical conditions.
- Demonstrate knowledge of dynamic healthcare delivery systems and regulatory environments.
- Apply principles of healthcare privacy, confidentiality, legal, ethical issues and data security.
- Apply critical and creative thinking, problem solving, and effective inter-professional communication skills related to health information management.
- Evaluate, use, and integrate information technology to support medical decision making and processes.
- Apply quantitative methodologies to process healthcare information.
- Healthcare Management Emphasis —  
Demonstrate the principles of leadership and management in the HIMT environment.
- Healthcare Technology Emphasis —  
Demonstrate the application of information technology in the HIMT environment.

This program offers courses in conjunction with three partner campuses: UW-Parkside, UW-La Crosse and UW-Stevens Point.

Students admitted to the program will take 48 credits of core courses, designed to prepare them for the HIMT field. They will then select one of two emphases, either **healthcare management** or **healthcare technology**, to further focus their knowledge in one of these areas of specialization. Coursework will culminate in a capstone course, where students will complete an HIMT project in a field setting.

## Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Healthcare Management (p. 141)
- Healthcare Technology (p. 142)

## Health Information Management and Technology Major

### Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Healthcare Management (p. 141)
- Healthcare Technology (p. 142)

## Healthcare Management Emphasis

### Core Courses

48

HIMT 300	Survey of Contemporary Computing
HIMT 310	Healthcare Systems and Organizations
HIMT 320	Survey of Information Technology in Healthcare
HIMT 330	Healthcare I: Terminology & Body Systems
HIMT 340	Ethical issues, Security Management and Compliance
HIMT 350	Statistics for Healthcare
HIMT 360	Healthcare II: Survey of Disease & Treatments
HIMT 370	Healthcare Systems: Analysis & Design
HIMT 380	Healthcare Billing, Coding and Reimbursement
HIMT 400	Healthcare Information and Technology - Data
HIMT 410	Healthcare Systems: Implementation and Integration
HIMT 420	Healthcare Systems: Project Management
HIMT 430	Quality Assessment and Improvement
HIMT 440	Group Processes, Team Building and Leadership
HIMT 450	Healthcare Information and Technology - Standards
HIMT 490	Capstone

<b>Healthcare Management Emphasis</b>		12
HIMT 355	Principles of Management for HIMT Professionals	
HIMT 365	Healthcare Economics	
HIMT 415	Human Resource Management in Healthcare	
HIMT 445	Application of Leadership & Management in Healthcare Technology	
Total Credits		60

## Healthcare Technology Emphasis

<b>Core Courses</b>		48
HIMT 300	Survey of Contemporary Computing	
HIMT 310	Healthcare Systems and Organizations	
HIMT 320	Survey of Information Technology in Healthcare	
HIMT 330	Healthcare I: Terminology & Body Systems	
HIMT 340	Ethical issues, Security Management and Compliance	
HIMT 350	Statistics for Healthcare	
HIMT 360	Healthcare II: Survey of Disease & Treatments	
HIMT 370	Healthcare Systems: Analysis & Design	
HIMT 380	Healthcare Billing, Coding and Reimbursement	
HIMT 400	Healthcare Information and Technology - Data	
HIMT 410	Healthcare Systems: Implementation and Integration	
HIMT 420	Healthcare Systems: Project Management	
HIMT 430	Quality Assessment and Improvement	
HIMT 440	Group Processes, Team Building and Leadership	
HIMT 450	Healthcare Information and Technology - Standards	
HIMT 490	Capstone	
<b>Healthcare Technology Emphasis</b>		12
HIMT 345	Programming and Software Development	
HIMT 375	Database Structures and Management Systems	
HIMT 425	Data Warehousing and Mining	
HIMT 435	Data Communications and Networks in Healthcare	
Total Credits		60

## History

Disciplinary Major or Minor (p. 60)  
(Bachelor of Arts)

**Professors** – Gregory S. Aldrete, Harvey J. Kaye

**Associate Professors** – Caroline S. Boswell, Clifton G. Ganyard, J. Vincent Lowery, Heidi M. Sherman (chair), David J. Voelker

**Assistant Professors** – Eric J. Morgan, Kimberley Reilly, Jon Shelton

History is an essential guide not only to the past, but to the present and the future. We cannot understand ourselves or our world without understanding the past. History also leads us to a greater awareness of the richness and complexity of our heritage.

A thorough training in history contributes to the foundation of a complete education and can directly prepare one for professional careers in many fields such as law, business, diplomacy, government service, journalism, teaching, and public relations, as well as graduate study. History's rigorous intellectual discipline and its emphasis on research and analysis nourish intellectual growth and critical thinking.

The History program fully supports and complements UW-Green Bay's mission, especially interdisciplinary and practical problem-solving. History provides information and structure to many other programs, especially in the humanities and social sciences, while receiving significant impulses from these and other disciplines. History contributes importantly to problem-solving by offering assistance in the recognition, definition, and investigation of problems, exploration of alternative solutions and guidance in their implementation.

History faculty have expertise in political, social, economic, cultural and intellectual history and an excellent record in teaching and scholarship. The University supports the History program with a good library, interlibrary loan facilities, and an exceptional collection of original documents in the Area Research Center.

Students majoring in History must select an interdisciplinary minor, which is an important part of UW-Green Bay's academic program. For advice on appropriate interdisciplinary minors to accompany the History major, consult with faculty advisers.

Students seeking information on teacher certification should contact the Education Office.

- History Major (p. 143)
- History Minor (p. 144)

## History Major

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Students majoring in History and pursuing DPI certification within the Education program should check with the History adviser about any special History department requirements for prospective teachers.

### Supporting Courses

18

#### American History

HISTORY 205 American History to 1865

HISTORY 206 History of the United States from 1865 to the Present

#### Western History

**Choose one of the following courses:**

HISTORY/HUM STUD 101 Foundations of Western Culture I

HISTORY/HUM STUD 102 Foundations of Western Culture II

#### World History

**Choose one of the following courses:**

HISTORY/HUM STUD 103 World Civilizations I

HISTORY/HUM STUD 104 World Civilizations II

#### Historical Methods

HISTORY 290 The Craft of History

#### Elective

**Choose 1 course not taken to meet one of the above requirements**

HISTORY/HUM STUD 101 Foundations of Western Culture I

HISTORY/HUM STUD 102 Foundations of Western Culture II

HISTORY/HUM STUD 103 World Civilizations I

HISTORY/HUM STUD 104 World Civilizations II

HISTORY 207 Introduction to African-American History

HISTORY 220 American Environmental History

### Upper-Level Courses

24

HISTORY 480 Seminar in History

#### Category I, American History

**Choose one of the following courses:**

DJS 361 Historical Perspectives on American Democracy

DJS 363 Topics in Democracy and Justice

Topic: The U.S. and Genocide

Topic: Historical Perspectives on US Education System

FNS 374 Wisconsin First Nations Ethnohistory

HISTORY 302 Problems in American Thought

HISTORY 309 United States Immigration History

HISTORY 310 American Colonial History

HISTORY 311 History of Wisconsin

HISTORY 312 The Early American Republic

HISTORY 322 Economic and Business History of the U.S.

HISTORY 340 Topics in African American History

HISTORY 370 History of Sexuality in the U.S.

HISTORY 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
<b>Category II, European History</b>	
<b>Choose one of the following courses:</b>	
HISTORY 301	The Middle Ages
HISTORY 330	Early Modern Europe
HISTORY 332	Europe in the 19th Century
HISTORY 333	Europe in the 20th Century
HISTORY 360	Ancient Greece
HISTORY 361	Ancient Rome
HISTORY 420	Topics in Ancient History
HISTORY 421	Topics in Medieval History
HISTORY 422	Topics in Early Modern European History
HISTORY 423	Topics in Modern European History
<b>Category III, Non-Western History</b>	
<b>Choose one of the following courses:</b>	
DJS 363	Topics in Democracy and Justice (Topic: South Africa)
HISTORY 337	The Rise of Islamic Civilization to 1800
HISTORY 354	History of Modern East Asia
HISTORY 356	History of Modern Africa
HISTORY 358	Political History of Modern Latin America
<b>Choose 12 credits from the following courses:</b>	
<b>Any 300-400 History courses may be used to complete this requirement</b>	
DJS 361	Historical Perspectives on American Democracy
DJS 363	Topics in Democracy and Justice (Topic: US & Genocide, US Education, South Africa)
FNS 374	Wisconsin First Nations Ethnohistory

Total Credits

42

## History Minor

This disciplinary minor also requires:

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

6

HISTORY 205 or HISTORY 206	American History to 1865 History of the United States from 1865 to the Present
<b>Choose one of the following courses:</b> <sup>1</sup>	
HISTORY/HUM STUD 101	Foundations of Western Culture I
HISTORY/HUM STUD 102	Foundations of Western Culture II
HISTORY/HUM STUD 103	World Civilizations I
HISTORY/HUM STUD 104	World Civilizations II

### Upper-Level Courses

12

**Choose 12 credits of upper-level History courses.**<sup>2</sup>

Total Credits

18

<sup>1</sup> Students may also opt to complete HISTORY 205 or HISTORY 206 in this category. They must take one as required and the other course can be completed in lieu of this course list.

<sup>2</sup> Students are required to take one course from Category I and one course from Category II as listed under the major. The remaining 6 credits may be selected from any 300- or 400- level History course, or DJS 361 or FNS 374.

## Human Biology

Interdisciplinary Major or Minor (p. 58)



(Bachelor of Science)

**Associate Professors** – Craig Hanke, Michael Hencheck, James C. Marker (chair), Daniel Meinhardt, Brian Merkel, Amanda Nelson, Debra Pearson, Uwe Pott, Donna L. Ritch, Leanne Zhu

**Assistant Professors** – Paul Mueller

**Lecturer** – Sara Schmitz

Human Biology focuses on the study of the biological, physiological, nutritional, developmental, and evolutionary aspects of humans. The major has an extensive range of offerings with core courses emphasizing human function, genetics, nutrition, and evolution.

Students who major in Human Biology gain extensive skills within the laboratory environment, including physiological, cellular, molecular, and statistical analyses. The laboratories house state-of-the-art instruments and equipment for students to gain valuable experience. Participation in faculty research projects or internships is strongly encouraged.

All Human Biology majors complete an area of emphasis within the program. There are five areas of emphasis within the major:

- The **health science emphasis** provides preparation for medical, dental or other health-related professional schools; for graduate programs in biological or biomedical sciences; or entry-level research positions with pharmaceutical or biotechnology companies.
- The **exercise science emphasis** provides background for careers in exercise physiology and fitness, sports medicine, biomechanics, physical therapy, or occupational therapy.
- The **cytotechnology emphasis** is offered in affiliation with professional programs of cytotechnology at UW-Madison and the Mayo Clinic. Cytotechnology is the microscopic study of cells primarily for detection of cancer. This emphasis leads to a degree in Human Biology with eligibility for professional certification.
- The **nutritional sciences/dietetics emphasis** provides a focus on the biological and physical principles of nutrition. This emphasis is accredited as a Didactic Program in Dietetics by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. Employment opportunities include healthcare, nutrition education, governmental and community health agencies, fitness facilities, public policy, agribusiness, and the food service industry. Students who successfully complete this program may apply for entry into a Dietetic Internship program, which is required to become a registered dietitian. Registered dietitians provide food and nutritional services with a focus on health promotion and disease prevention.
- The **general emphasis** is appropriate for students seeking careers in industrial, managerial, or sales positions in biological or health-related industries.

The Human Biology major/minor may be combined with other majors/minors for students interested in areas such as scientific journalism, scientific illustration, biological photography, genetic counseling, bioinformatics, public health administration, pharmaceutical sales, or other health-related professions.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

## Areas of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- General Human Biology (p. 149)
- Health Science (p. 151)
- Exercise Science (p. 148)
- Cytotechnology (p. 146)
- Nutritional Sciences/Dietetics (p. 153)

Students must receive an average minimum GPA of 2.5 in the following foundation courses, with a minimum grade of C in each course, before declaring a Human Biology major.

BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes
HUM BIOL 204	Anatomy and Physiology
CHEM 211	Principles of Chemistry I
CHEM 212	Principles of Chemistry II

## Areas of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Applied Human Biology Emphasis (p. 154)
- General Human Biology Emphasis (p. 155)

Students must receive an average minimum GPA of 2.5 in the following foundation courses, with a minimum grade of C in each course, before declaring a Human Biology minor.

BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes
HUM BIOL 204	Anatomy and Physiology
CHEM 211	Principles of Chemistry I
CHEM 212	Principles of Chemistry II

## Human Biology Major

### Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- General Human Biology (p. 149)
- Health Science (p. 151)
- Exercise Science (p. 148)
- Cytotechnology (p. 146)
- Nutritional Sciences/Dietetics (p. 153)

Students must receive an average minimum GPA of 2.5 in the following foundation courses, with a minimum grade of C in each course, before declaring a Human Biology major.

BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes
HUM BIOL 204	Anatomy and Physiology
CHEM 211	Principles of Chemistry I
CHEM 212	Principles of Chemistry II

## Cytotechnology Emphasis

- UW-Green Bay is affiliated with two schools of cytotechnology: the Mayo Clinic and UW-Madison.
- Students complete 92 credits at UW-Green Bay, including all general education requirements, and then take an 11-month, 32-credit clinical internship at one of the cooperating institutions.
- After completion of the internship, students will graduate with a degree in Human Biology and be eligible for professional certification.

### Supporting Courses

31-34

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
ENG COMP 105	Expository Writing <sup>1</sup>
ENGLISH 104	Introduction to Literature
HUM BIOL 204	Anatomy and Physiology
HUM BIOL 207	Laboratory Safety
MATH 104	Elementary Functions: Algebra and Trigonometry
MATH 260	Introductory Statistics

### Upper-Level Courses

53-54

**Select one course from three of the four areas:**

#### Genetics

BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics
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#### Physiology

HUM BIOL 402	Human Physiology
<b>Nutrition</b>	
NUT SCI 300	Human Nutrition
or NUT SCI 302	Ethnic Influences on Nutrition
<b>Cell Biology</b>	
BIOLOGY 302	Principles of Microbiology
or BIOLOGY 307	Cell Biology
<b>Choose 6 credits of the following elective courses:</b> <sup>2</sup>	
BIOLOGY 302	Principles of Microbiology
BIOLOGY 303	Genetics
BIOLOGY 304	Genetics Laboratory
BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 402	Advanced Microbiology
BIOLOGY 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
CHEM 300	Bio-Organic Chemistry
CHEM 301	Bio-Organic Chemistry Laboratory
CHEM 302	Organic Chemistry I
CHEM 303	Organic Chemistry II
CHEM 304	Organic Chemistry Laboratory I
CHEM 305	Organic Chemistry Laboratory II
CHEM 311	Analytical Chemistry
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
CHEM 407	Molecular Biology
CHEM 408	Molecular Biology Laboratory
HUM BIOL 360	Exercise Physiology
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 426	Cancer Biology
HUM BIOL 427	Cancer Biology Laboratory
HUM BIOL 444	Endocrinology
NUT SCI 300	Human Nutrition
<b>Cytotechnology Internship</b>	
HUM BIOL 497	Internship <sup>3</sup>

Total Credits

84-88

<sup>1</sup> Satisfied for students with an ACT English score of 32 or higher.

<sup>2</sup> Additional upper-level courses in Human Biology, Biology and Chemistry will depend upon the student's choice of clinical facility. These courses should be selected with the help of a faculty adviser.

<sup>3</sup> Students complete 32 credits of internship total over a 3 semester sequence. In some situations students may choose to pursue clinical training after graduation from UW-Green Bay. In this option is selected, additional upper-level elective credits are required. Consult an adviser for these situations.

## Exercise Science Emphasis

### Supporting Courses

30-36

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
ENG COMP 105	Expository Writing <sup>1</sup>
HUM BIOL 116	First Aid and Emergency Care Procedures <sup>2</sup>
HUM BIOL 204	Anatomy and Physiology
HUM BIOL 207	Laboratory Safety
HUM BIOL 210	Prevention and Treatment of Athletic Injuries
MATH 260	Introductory Statistics

#### Choose one of the following 3 options:

COMM 133	Fundamentals of Public Address (Or Oral Communication)
OR	
ENGLISH 104	Introduction to Literature (Or any English Literature course)
OR	
One year of any college-level foreign language	

### Upper-Level Courses

30

HUM BIOL 333	Principles of Sports Physiology
HUM BIOL 351	Kinesiology
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism
NUT SCI 300	Human Nutrition

#### Choose one of the following courses:

BIOLOGY 303	Genetics
BIOLOGY 307	Cell Biology
HUM BIOL 310	Human Genetics

#### Laboratory Electives (choose 1 course from the following courses): <sup>3</sup>

BIOLOGY 302	Principles of Microbiology
BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 423	Immunology Lab
HUM BIOL 427	Cancer Biology Laboratory

#### Additional Upper-Level Electives

BIOLOGY 302	Principles of Microbiology
BIOLOGY 303	Genetics
BIOLOGY 304	Genetics Laboratory
BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 309	Evolutionary Biology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 346	Comparative Physiology
BUS ADM 382	Introductory Management

CHEM 300	Bio-Organic Chemistry
CHEM 301	Bio-Organic Chemistry Laboratory
HUM BIOL 310	Human Genetics
HUM BIOL 324	The Biology of Women
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 402	Human Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 405	Biotechnology and Ethics
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 426	Cancer Biology
HUM BIOL 427	Cancer Biology Laboratory
HUM BIOL 444	Endocrinology
HUM BIOL 495	Research in Human Biology
HUM BIOL 497	Internship
HUM BIOL 498	Independent Study
NUT SCI 302	Ethnic Influences on Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism

**(Only) 2 courses in Psychology may be used for upper-level electives.**

PSYCH 300	Research Methods in Psychology
PSYCH 308	Physiological Psychology
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology

Total Credits

60-66

- 1 Satisfied with an ACT English score of 32 or higher.
- 2 Students may earn credit for this requirement with current First Aid and CPR certification; see faculty adviser for approval.
- 3 Select upper-level courses with assistance of a faculty adviser. A maximum of two PSYCH courses can be applied to the major. Minimum of three upper-level laboratory courses.

## General Human Biology Emphasis

### Supporting Courses

30-35

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
ENG COMP 105	Expository Writing <sup>1</sup>
HUM BIOL 204	Anatomy and Physiology
HUM BIOL 207	Laboratory Safety
MATH 260	Introductory Statistics

**Choose one of the following 3 options:**

COMM 133	Fundamentals of Public Address (Or Oral Communication )
<b>or</b>	
ENGLISH 104	Introduction to Literature (Or any English Literature course)
<b>or</b>	
Or one year of any college-level foreign language	

### Upper-Level Courses

30-31

**Choose one course from three of the four areas:****Genetics**

BIOLOGY 303	Genetics
or HUM BIOL 310	Human Genetics

**Physiology (one of two options)**

HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism <sup>3</sup>
or HUM BIOL 402	Human Physiology

**Nutrition**

NUT SCI 300	Human Nutrition
or NUT SCI 302	Ethnic Influences on Nutrition

**Cell Biology**

BIOLOGY 302	Principles of Microbiology
or BIOLOGY 307	Cell Biology

**Laboratory Courses (need 3 upper level lab courses):<sup>2</sup>**

BIOLOGY 302	Principles of Microbiology
BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 402	Advanced Microbiology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
CHEM 331	Biochemistry Laboratory
CHEM 408	Molecular Biology Laboratory
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 351	Kinesiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism
HUM BIOL 423	Immunology Lab
HUM BIOL 427	Cancer Biology Laboratory
NUT SCI 327	Nutritional Biochemistry

**Additional Upper-Level Electives (15 credits)**

BIOLOGY 302	Principles of Microbiology
BIOLOGY 303	Genetics
BIOLOGY 304	Genetics Laboratory
BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 309	Evolutionary Biology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 402	Advanced Microbiology
BIOLOGY 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
CHEM 300	Bio-Organic Chemistry
CHEM 301	Bio-Organic Chemistry Laboratory
CHEM 302	Organic Chemistry I
CHEM 303	Organic Chemistry II
CHEM 304	Organic Chemistry Laboratory I
CHEM 305	Organic Chemistry Laboratory II

CHEM 311	Analytical Chemistry
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
CHEM 407	Molecular Biology
CHEM 408	Molecular Biology Laboratory
HUM BIOL 310	Human Genetics
HUM BIOL 333	Principles of Sports Physiology
HUM BIOL 324	The Biology of Women
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 351	Kinesiology
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism <sup>3</sup>
HUM BIOL 402	Human Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 405	Biotechnology and Ethics
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 426	Cancer Biology
HUM BIOL 427	Cancer Biology Laboratory
HUM BIOL 444	Endocrinology
HUM BIOL 495	Research in Human Biology
HUM BIOL 497	Internship
HUM BIOL 498	Independent Study
NUT SCI 300	Human Nutrition
NUT SCI 302	Ethnic Influences on Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 495	Research in Nutritional Science
NUT SCI 497	Internship
NUT SCI 498	Independent Study

**(Only) Two Psychology courses may be used toward upper-level requirements**

PSYCH 300	Research Methods in Psychology
PSYCH 308	Physiological Psychology
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology

Total Credits

60-66

- <sup>1</sup> Satisfied with an ACT English score of 32 or higher
- <sup>2</sup> Select upper-level courses with assistance of a faculty adviser. A maximum of two PSYCH courses can be applied to the major. Minimum of three upper-level laboratory courses.
- <sup>3</sup> HUM BIOL 360 and HUM BIOL 361 can only satisfy one requirement, if used to satisfy Physiology option, may not be used again to meet lab/elective requirement.

## Health Science Emphasis

### Supporting Courses<sup>1</sup>

41-44

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory

CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
ENG COMP 105	Expository Writing <sup>2</sup>
HUM BIOL 204	Anatomy and Physiology
HUM BIOL 207	Laboratory Safety
MATH 260	Introductory Statistics
<b>Choose one of the following courses:</b>	
MATH 104	Elementary Functions: Algebra and Trigonometry
MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
<b>Choose one of the following options:</b>	
PHYSICS 103 & PHYSICS 104	Fundamentals of Physics I and Fundamentals of Physics II
PHYSICS 201 & PHYSICS 202	Principles of Physics I and Principles of Physics II
<b>Choose one of the following courses:</b>	
COMM 133	Fundamentals of Public Address (Or Oral Communication)
OR	
ENGLISH 104	Introduction to Literature (Or any English Literature course)
OR	
One year of any college-level foreign language	

**Upper-Level Courses** 32-33

<b>Choose three of the following courses:</b>	
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics
BIOLOGY 307	Cell Biology
HUM BIOL 402	Human Physiology
NUT SCI 300	Human Nutrition
<b>Required Courses</b>	
BIOLOGY 302	Principles of Microbiology
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II
CHEM 311 or CHEM 330	Analytical Chemistry Biochemistry
<b>Health Science Electives (choose 8 credits):</b>	
<b>Minimum of two upper-level laboratory courses.</b> <sup>3</sup>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 402	Advanced Microbiology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
CHEM 331	Biochemistry Laboratory
CHEM 408	Molecular Biology Laboratory
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 423	Immunology Lab
HUM BIOL 427	Cancer Biology Laboratory
<b>Additional Upper-Level Electives</b>	
BIOLOGY 303	Genetics
BIOLOGY 304	Genetics Laboratory



BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 309	Evolutionary Biology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 402	Advanced Microbiology
BIOLOGY 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
CHEM 311	Analytical Chemistry
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
CHEM 407	Molecular Biology
CHEM 408	Molecular Biology Laboratory
HUM BIOL 310	Human Genetics
HUM BIOL 324	The Biology of Women
HUM BIOL 333	Principles of Sports Physiology
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism
HUM BIOL 402	Human Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 405	Biotechnology and Ethics
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 426	Cancer Biology
HUM BIOL 427	Cancer Biology Laboratory
HUM BIOL 444	Endocrinology
HUM BIOL 495	Research in Human Biology
HUM BIOL 497	Internship
HUM BIOL 498	Independent Study

Total Credits

73-77

- 1 It is highly recommended that as **freshmen**, pre-medical and pre-dental students take BIOLOGY 201, BIOLOGY 202 and CHEM 211, CHEM 212, CHEM 213, CHEM 214 and consult and adviser.
- 2 Satisfied with an ACT English score of 32 or higher.
- 3 BIOLOGY 340 and BIOLOGY 402 are 4 credits each, all other courses in this list are 1 credit.

## Nutritional Sciences/Dietetics Emphasis

### Supporting Courses

35-38

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
COMM 133	Fundamentals of Public Address
MATH 260 or COMM SCI 205	Introductory Statistics Social Science Statistics
ENG COMP 105	Expository Writing <sup>1</sup>
HUM BIOL 204	Anatomy and Physiology
HUM BIOL 207	Laboratory Safety
HUM DEV 102 or PSYCH 102	Introduction to Human Development Introduction to Psychology

NUT SCI 201	Survey of Nutrition Related Professions
NUT SCI 212	Science of Food Preparation
<b>Required Courses</b>	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
<b>Upper-Level Courses</b>	
45-46	
BIOLOGY 302	Principles of Microbiology
BIOLOGY 303	Genetics
or HUM BIOL 310	Human Genetics
CHEM 300	Bio-Organic Chemistry
CHEM 301	Bio-Organic Chemistry Laboratory
<b>Select one (of two) options</b>	
HUM BIOL 360 & HUM BIOL 361 or HUM BIOL 402	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism Human Physiology
NUT SCI 300	Human Nutrition
NUT SCI 312	Quantity Food Production and Service
NUT SCI 350	Life Cycle Nutrition
NUT SCI 402	Management in Dietetic Practice
NUT SCI 421	Community Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 485	Medical Nutrition Therapy I
NUT SCI 486	Medical Nutrition Therapy II
NUT SCI 487	Nutritional Science Seminar
<b>Choose one of the following options:</b>	
CHEM 330 & CHEM 331 or NUT SCI 327	Biochemistry and Biochemistry Laboratory Nutritional Biochemistry

Total Credits

80-84

<sup>1</sup> Satisfied for students with an ACT English score of 32 or higher.

## Human Biology Minor

### Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Applied Human Biology Emphasis (p. 154)
- General Human Biology Emphasis (p. 155)

Students must receive an average minimum GPA of 2.5 in the following foundation courses, with a minimum grade of C in each course, before declaring a Human Biology minor.

BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes
HUM BIOL 204	Anatomy and Physiology
CHEM 211	Principles of Chemistry I
CHEM 212	Principles of Chemistry II

## Applied Human Biology Emphasis

### Supporting Courses

20

BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
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CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
HUM BIOL 204	Anatomy and Physiology	
HUM BIOL 207	Laboratory Safety	
<b>Upper-Level Courses</b>		<b>14-16</b>
BIOLOGY 407 & BIOLOGY 408 or CHEM 330 & CHEM 331	Molecular Biology and Molecular Biology Laboratory Biochemistry and Biochemistry Laboratory	
<b>Choose one of the following courses:</b>		
BIOLOGY 346	Comparative Physiology	
HUM BIOL 350	Exercise Physiology	
HUM BIOL 402	Human Physiology	
<b>Electives</b>		
<b>Choose 7-8 credits of upper-level Biology, Chemistry, Human Biology or Nutritional Sciences courses with assistance of a faculty adviser.</b>		
Total Credits		34-36

## General Human Biology Emphasis

<b>Supporting Courses</b>		<b>15-20</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
HUM BIOL 204	Anatomy and Physiology	
HUM BIOL 207	Laboratory Safety	
Select the following:		
CHEM 108 & CHEM 109 or CHEM 211 & CHEM 213 & CHEM 212 & CHEM 214	General Chemistry and General Chemistry Laboratory Principles of Chemistry I and Principles of Chemistry I Laboratory and Principles of Chemistry II and Principles of Chemistry II Laboratory	
<b>Upper-Level Courses</b>		<b>12-13</b>
<b>Choose one course from each of the following areas:</b>		
<b>Genetics</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics	
<b>Physiology</b>		
HUM BIOL 350 or HUM BIOL 402	Exercise Physiology Human Physiology	
<b>Nutrition</b>		
NUT SCI 300 or NUT SCI 302	Human Nutrition Ethnic Influences on Nutrition	
<b>Cell Biology</b>		
BIOLOGY 302 or BIOLOGY 307	Principles of Microbiology Cell Biology	
Total Credits		27-33

## Human Development

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Science)

**Professors** – Illene Cupit, Regan A.R. Gurung, Dean Von Dras, Julia Wallace

**Associate Professors** – Denise Bartell, Kathleen Burns (chair), Dennis N. Lorenz, Ryan Martin, Deirdre Radosevich, Christine Smith, Kristin Vespia, Georjeanna Wilson-Doenges

**Assistant Professors** – Jenell Holstead, Joel Muraco, Sawa Senzaki

Human Development is a broad-based interdisciplinary major that explores human growth and change as a lifelong process which a) involves biological, cognitive, emotional, social and moral development, and b) occurs in multiple contexts. It examines the factors that promote healthy development, as well as variations from the norm. Consistent with the interdisciplinary focus of UW-Green Bay, Human Development is a liberal arts program that works to integrate the contributions of psychologists, biologists, anthropologists, sociologists, and scholars from other fields to improve our understanding of the life cycle. Students have opportunities to apply knowledge and to practice the integration of information and methods from different disciplines.

Students follow an introduction to the major with courses that advance the major's learning objectives of developing basic skills such as informational literacy, research skills, and learning about diverse contexts. Human Development focuses on the core phases of development and advanced courses in specific areas of the field (e.g., family and relationships, gender and diversity, and biological and health topics). Students select these upper-level courses based, at least in part, on their particular career goals. Students also take courses from the different disciplines (e.g., biology, public policy, psychology) that contribute to the field of human development.

One particular advantage of the Human Development program is the opportunity for undergraduate students to gain practical experience, and many work with faculty on independent research projects or as research assistants or teaching assistants. Human Development also strives to educate students who are committed to and engaged in their communities. Therefore, students are strongly encouraged to seek applied experience through an internship in an approved community agency, part-time employment, or volunteer work. Such experiences are beneficial when entering the job market or seeking admission to graduate and professional schools.

Human Development is a suitable major or minor for students who plan a career that involves working with people and helping to solve human problems. Career possibilities are varied because of the knowledge students gain, along with the communication, critical thinking, research, and application skills they acquire in a liberal arts major. There are many options in human service, business, and educational settings. Alumni have worked in domestic violence shelters, for non-profit advocacy groups, in sales and customer service, and both with young children in preschools and with adults seeking admission to college. They have also pursued graduate studies in diverse fields, including human development and family studies, higher education or student affairs, law, marriage and family therapy, and more. Admission to graduate school is highly selective and requires a student to have very strong academic credentials. Students with these interests should plan their programs carefully with their advisers in order to select courses and experiences that maximize their competitiveness and be as prepared as possible to apply to graduate school.

Although a minor is not required to graduate with a Human Development major, minors or double majors in such areas as Public and Environmental Affairs, Business Administration, Women's and Gender Studies, and Psychology may be helpful complements in preparing for specific objectives. Faculty advisers can help students tailor their choice of academic plan and electives to their individual career goals. More detailed information about both career and graduate school options for Human Development students can be found on the department website: <http://www.uwgb.edu/human-development/>.

### Human Development Minor

The Human Development minor adds a broad, interdisciplinary component to traditional social science majors such as Psychology and to other interdisciplinary majors such as Human Biology, Design Arts, Arts Management, and Democracy and Justice Studies. For students who major in professional programs such as Education, Social Work, or Business Administration, the minor adds a strong developmental focus to their programs of study.

- Human Development Major (p. 156)
- Human Development Minor (p. 157)

## Human Development Major

### Supporting Courses

16

#### Basic Foundational Knowledge and Skills

HUM DEV 102	Introduction to Human Development
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#### Research Skills, choose one of the following courses:

BUS ADM 216	Business Statistics (for Business majors and minors only)
COMM SCI 205	Social Science Statistics (strongly recommended)
MATH 260	Introductory Statistics

#### Foundation Disciplines (required 9 credits):

##### Psychology

PSYCH 102	Introduction to Psychology
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##### Public Policy (choose one of the following courses):

POL SCI 101	American Government and Politics
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PU EN AF 202	Introduction to Public Policy
PU EN AF 215	Introduction to Public Administration
<b>Human Biology</b>	
HUM BIOL 102	Introduction to Human Biology
<b>Upper-Level Courses</b>	<b>31</b>
<b>Research Methodology</b>	
HUM DEV 302	Developmental Research Methods
<b>Phases of Development</b>	
HUM DEV 331	Infancy and Early Childhood
HUM DEV 332	Middle Childhood and Adolescence
HUM DEV 343	Adulthood and Aging
<b>Sociocultural</b>	
<b>Family and Relationships (choose one of the following courses):</b>	
HUM DEV 353	Family Development
HUM DEV 370	Personal Relationships
<b>Gender and Diversity (choose one of the following courses):</b>	
HUM DEV 336	Gender Development Across the Lifespan
HUM DEV 342	Cross Cultural Human Development
HUM DEV 346	Culture, Development and Health
<b>Biological and Health (choose one of the following courses):</b>	
HUM DEV 350	Developmental Psychobiology
PSYCH 308	Physiological Psychology
PSYCH 450	Health Psychology
<b>Psychological (choose one of the following courses):</b>	
PSYCH 417	Psychology of Cognitive Processes
PSYCH 429	Theories of Personality
PSYCH 435	Abnormal Psychology
<b>Elective courses (choose 6 credits):<sup>1</sup></b>	
HUM DEV 344	Dying, Death, and Loss
HUM DEV 345	Human Sexuality
HUM DEV 443	Spirituality and Development
HUM DEV 497	Internship
<b>Any of the following is encouraged, but does not count toward major requirements:</b>	
HUM DEV 495	Teaching Assistantship
HUM DEV 478	Honors in the Major
HUM DEV 496	Research Assistantship
HUM DEV 498	Independent Study
Total Credits	<b>47</b>

<sup>1</sup> Choose courses from HUM DEV prefix core not used to fulfill upper-level core requirements OR choose from the following of HUM DEV 344, HUM DEV 345, HUM DEV 443 or HUM DEV 497.

## Human Development Minor

<b>Supporting Courses</b>	<b>6</b>
HUM DEV 102	Introduction to Human Development
<b>Choose one of the following courses:</b>	
HUM BIOL 102	Introduction to Human Biology
POL SCI 101	American Government and Politics
PSYCH 102	Introduction to Psychology
PU EN AF 202	Introduction to Public Policy
PU EN AF 215	Introduction to Public Administration
<b>Upper-Level Courses</b>	<b>12</b>

**Choose two of the following courses:**

HUM DEV 331	Infancy and Early Childhood
HUM DEV 332	Middle Childhood and Adolescence
HUM DEV 343	Adulthood and Aging

**Choose two additional courses at the 300-400 upper level with the HUM DEV prefix****Any of the following is encouraged, but does not count toward minor requirements:**

HUM DEV 495	Teaching Assistantship
HUM DEV 496	Research Assistantship
HUM DEV 497	Internship
HUM DEV 498	Independent Study

Total Credits

18

## Humanistic Studies

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Arts)

**Professors** – Gregory Aldrete, David Coury, Jennifer Ham, Derek Jeffreys, Cristina Ortiz

**Associate Professors** – Caroline Boswell (chair), Hernán Fernández-Meardi, Clifton Ganyard, Stefan Hall, Hye-Kyung Kim, J. Vincent Lowery, Christopher Martin, Rebecca Meacham, Lisa Poupart, Charles Rybak, Gabriel Saxton-Ruiz, Heidi Sherman, Brian Sutton, David Voelker

**Assistant Professor** – J.P. Leary, Rebecca Nesvet

**Lecturers** – Carl Battaglia, Deborah Burden, Kristin Denslow, Dianne Gordon, Kevin Kain, Karla Larson, Jennifer Ronsman, Linda Toonen

Humanistic Studies is an interdisciplinary program that will help students develop a greater understanding of what it means to be human through the study of history, literature, philosophy, religion, languages and world civilizations. Humanistic Studies explores some of the central questions in life, such as the meaning of beauty, justice, and the “good life,” as well as the importance of language, culture and artistic expression.

The humanities comprise those fields that study human creations of all sorts, including literary studies, creative writing, linguistics, history, ancient and modern languages, cultural studies and philosophy.

The Humanistic Studies major offers four areas of emphasis:

- The **western cultures emphasis**. In this track students will study the development of values and their effect on cultural identity and change in western cultures from prehistory until the present. Students will also study values in other cultures to provide a basis for comparison.
- The **ancient and medieval studies emphasis**. In this track students will study the cultures and civilizations of the ancient and medieval worlds through courses in history, literature and philosophy as well as through interdisciplinary courses.
- The **religious studies emphasis**. In this track students will have an opportunity to understand how the religions of the world have affected values, human behavior, and human institutions.
- The **American cultures emphasis**. In this track students will engage in an interdisciplinary study of the region that became the United States — not only as an expanding nation (after 1776) but also as a site of cultural contact and conflict, with emphasis on the histories, literature, religions, and other narratives that have shaped American national identities.

The Humanistic Studies minor offers two areas of emphasis:

- One area emphasizes **cultures and values**.
- Another area emphasizes **linguistics / teaching English as a second language**.

While the factual content of Humanistic Studies courses ranges widely in subject matter, all courses emphasize a distinct set of broadly useful skills. Among these are the ability to express one’s ideas in a clear, organized, well-reasoned, and grammatically correct manner in both speech and writing; to think critically and analyze texts; to make arguments and present them effectively; to understand context (how history and culture shape us); to recognize and appreciate nuance and complexity of meaning; and to understand and appreciate cultural diversity.

A program in Humanistic Studies complements other courses of study. It is a natural accompaniment to majors or minors in History, Philosophy, English, French, German or Spanish, as well as First Nations Studies and Women’s and Gender Studies. Humanistic Studies also complements majors and minors in business, education, the social sciences, the natural sciences, and the fine arts.

In conjunction with other courses of study, a Humanistic Studies major or minor is an excellent preparation for many graduate programs in the humanities and in law, medicine or engineering. The general intellectual skills emphasized in Humanistic Studies courses and the flexibility and versatility they impart help graduates succeed in today’s rapidly changing job market, where specific factual knowledge can quickly become outdated. The two most common career paths of Humanistic Studies majors are in the fields of education and business, but the skills acquired by Humanistic Studies students are applicable to nearly any career.

Students may study abroad or at other campuses across the globe and in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Humanistic Studies faculty-led travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

## Language Requirement

All Humanistic Studies majors are expected to fulfill the non-English language requirement by completing one of the following:

- Complete at least two college-level semesters of a non-English language. Students who have taken French, German or Spanish in high school or who have acquired a knowledge of the language elsewhere may receive credit for that preparation by passing an advanced-level UW-Green Bay course with a grade of "C" or better.
- Demonstrate the equivalent level of proficiency in a non-English language on a proficiency exam. NOTE: Students seeking to fulfill the language requirement through proficiency testing in French, German, or Spanish should contact the appropriate language coordinator. For skill assessment in other languages, students should contact the chair of Modern Languages.

## Area of Emphasis

Students must complete one of the following areas of emphasis:

- American Cultures (p. 159)
- Ancient and Medieval Studies (p. 160)
- Religious Studies (p. 161)
- Western Cultures (p. 162)

## Area of Emphasis

Students must complete one of the following areas of emphasis:

- Cultures and Values Emphasis (p. 163)
- Linguistics/Teaching English as a Second Language Emphasis (p. 164)
- Science Fiction Emphasis (p. 165)

# Humanistic Studies Major

## Language Requirement

All Humanistic Studies majors are expected to fulfill the non-English language requirement by completing one of the following:

- Complete at least two college-level semesters of a non-English language. Students who have taken French, German or Spanish in high school or who have acquired a knowledge of the language elsewhere may receive credit for that preparation by passing an advanced-level UW-Green Bay course with a grade of "C" or better.
- Demonstrate the equivalent level of proficiency in a non-English language on a proficiency exam. NOTE: Students seeking to fulfill the language requirement through proficiency testing in French, German, or Spanish should contact the appropriate language coordinator. For skill assessment in other languages, students should contact the chair of Modern Languages.

## Area of Emphasis

Students must complete one of the following areas of emphasis:

- American Cultures (p. 159)
- Ancient and Medieval Studies (p. 160)
- Religious Studies (p. 161)
- Western Cultures (p. 162)

# American Cultures Emphasis

## Language Requirement

All Humanistic Studies majors are expected to fulfill the non-English language requirement by completing one of the following:

- Complete at least two college-level semesters of a non-English language. Students who have taken French, German or Spanish in high school or who have acquired a knowledge of the language elsewhere may receive credit for that preparation by passing an advanced-level UW-Green Bay course with a grade of "C" or better.

- Demonstrate the equivalent level of proficiency in a non-English language on a proficiency exam. NOTE: Students seeking to fulfill the language requirement through proficiency testing in French, German, or Spanish should contact the appropriate language coordinator. For skill assessment in other languages, students should contact the chair of Modern Languages.

**Supporting Courses**

18

ENG COMP 105	Expository Writing
ENGLISH 216 or ENGLISH 217	Introduction to American Literature I Introduction to American Literature II
FNS 225 or FNS 226	Introduction to First Nations Studies: The Tribal World Introduction to First Nations Studies: Social Justice
HISTORY 205 or HISTORY 206	American History to 1865 History of the United States from 1865 to the Present
HISTORY 207 or HUM STUD 213	Introduction to African-American History Ethnic Diversity and Human Values
<b>Choose one of the following courses:</b>	
HUM STUD/HISTORY 101	Foundations of Western Culture I
HUM STUD/HISTORY 102	Foundations of Western Culture II
HUM STUD/HISTORY 103	World Civilizations I
HUM STUD/HISTORY 104	World Civilizations II
HUM STUD 201	Introduction to the Humanities I
HUM STUD 202	Introduction to the Humanities II

**Upper-Level Courses**

24

HISTORY 302	Problems in American Thought
HUM STUD 351	Interdisciplinary Themes in Humanistic Studies
HUM STUD 480	Humanities Seminar
<b>Choose five upper-level courses from the following categories:</b> <sup>1</sup>	
<b>American History (choose a minimum of one course):</b>	
HISTORY 310	American Colonial History
HISTORY 312	The Early American Republic
HISTORY 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
SPANISH 359	The Cultures of the Americas
<b>American Ethnic Diversity (choose a minimum of one course):</b>	
ENGLISH 336	American Ethnic Literature
ENGLISH 344	African American Literature
FNS/HUM STUD 385	Perspectives on Human Values: First Nations
HISTORY 340	Topics in African American History
<b>American Literatures (choose a minimum of one course):</b>	
ENGLISH 331	Major American Prose Fiction
FNS 372/HUM STUD 385	Indigenous Nations Oral and Storytelling Traditions

Total Credits

42

<sup>1</sup> One of the two elective courses could also be PHILOS 326. The Humanistic Studies adviser may also approve appropriate experimental courses or variable content courses on an ad hoc basis.

## Ancient and Medieval Studies Emphasis

### Language Requirement

All Humanistic Studies majors are expected to fulfill the non-English language requirement by completing one of the following:

- Complete at least two college-level semesters of a non-English language. Students who have taken French, German or Spanish in high school or who have acquired a knowledge of the language elsewhere may receive credit for that preparation by passing an advanced-level UW-Green Bay course with a grade of "C" or better.



- Demonstrate the equivalent level of proficiency in a non-English language on a proficiency exam. NOTE: Students seeking to fulfill the language requirement through proficiency testing in French, German, or Spanish should contact the appropriate language coordinator. For skill assessment in other languages, students should contact the chair of Modern Languages.

**Supporting Courses**

9

ENG COMP 105	Expository Writing
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**Choose one of the following courses:**

HUM STUD/HISTORY 101	Foundations of Western Culture I
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HUM STUD/HISTORY 103	World Civilizations I
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HUM STUD 201	Introduction to the Humanities I
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**Choose one of the following courses:**

HUM STUD/HISTORY 102	Foundations of Western Culture II
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HUM STUD/HISTORY 104	World Civilizations II
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HUM STUD 202	Introduction to the Humanities II
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**Upper-Level Courses**

27

HUM STUD 334	Perspectives on Human Values: The Classical World
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or HUM STUD 335	Perspectives on Human Values: The Medieval World
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**Ancient History (choose one of the following):**

HISTORY 360	Ancient Greece
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HISTORY 361	Ancient Rome
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HISTORY 420	Topics in Ancient History
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**Ancient and Medieval Religion and Philosophy (choose one of the following):**

HUM STUD 323	The Hebrew Bible (Old Testament)
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HUM STUD 324	The New Testament
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HUM STUD 326	Non-Western Religions
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PHILOS 309	Religion and Medieval Philosophy
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PHILOS 401	Plato and Aristotle
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PHILOS 403	Topics in Philosophy (with ancient or medieval topic)
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**Medieval History:**

HISTORY 301	The Middle Ages <sup>1</sup>
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or HISTORY 421	Topics in Medieval History
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**Medieval Literature:**

ENGLISH 333	Literary Themes (with ancient/medieval topic for either course)
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or ENGLISH 335	Literary Eras
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**Capstone Seminar**

HUM STUD 480	Humanities Seminar
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**Choose 9 credits of elective courses <sup>2</sup>**

Total Credits

36

<sup>1</sup> Or other upper-level History course with medieval content

<sup>2</sup> These might include variable content courses with appropriate ancient or medieval topics such as HUM STUD 350 and HUM STUD 351, or offerings from other Humanistic Studies and/or its departments.

## Religious Studies Emphasis

### Language Requirement

All Humanistic Studies majors are expected to fulfill the non-English language requirement by completing one of the following:

- Complete at least two college-level semesters of a non-English language. Students who have taken French, German or Spanish in high school or who have acquired a knowledge of the language elsewhere may receive credit for that preparation by passing an advanced-level UW-Green Bay course with a grade of "C" or better.

- Demonstrate the equivalent level of proficiency in a non-English language on a proficiency exam. NOTE: Students seeking to fulfill the language requirement through proficiency testing in French, German, or Spanish should contact the appropriate language coordinator. For skill assessment in other languages, students should contact the chair of Modern Languages.

**Supporting Courses**

9

ENG COMP 105	Expository Writing
PHILOS 217	Introduction to the Philosophy of Religion
<b>Choose one of the following courses:</b>	
PHILOS 212	Philosophy, Religion, and Science
PHILOS 213	Ancient Philosophy
PHILOS 214	Early Modern Philosophy
PHILOS 216	Introduction to Asian Philosophy

**Upper-Level Courses**

25

**Perspectives on Human Values****Category I (choose one):**

HUM STUD 335	Perspectives on Human Values: The Medieval World
HUM STUD 336	Perspectives on Human Values: The Renaissance
HUM STUD 337	Perspectives on Human Values: The Age of Reason
HUM STUD 382	Perspective on Human Values: Romanticism to Modernism

**Category II (choose one):**

HUM STUD 334	Perspectives on Human Values: The Classical World
HUM STUD 383	Perspectives on Human Values: The Contemporary World
HUM STUD 384	Perspectives on Human Values in Other Cultures
HUM STUD 385	Perspectives on Human Values: First Nations

**Interdisciplinary Study of Great Works**

HUM STUD 350	Interdisciplinary Study of Great Works
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**Religious Studies Courses****The Bible**

HUM STUD 323	The Hebrew Bible (Old Testament)
or HUM STUD 324	The New Testament

**Medieval World**

HUM STUD 335	Perspectives on Human Values: The Medieval World
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**Non-Western Religions**

HUM STUD 326	Non-Western Religions
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**Religion and Social Order**

HUM STUD 327	Religion and the Social Order
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**Internship, 3 credits**

HUM STUD 497	Internship (consultation with Religious Studies adviser required)
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**Capstone Seminar**

HUM STUD 480	Humanities Seminar
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Total Credits

34

## Western Cultures Emphasis

### Language Requirement

All Humanistic Studies majors are expected to fulfill the non-English language requirement by completing one of the following:

- Complete at least two college-level semesters of a non-English language. Students who have taken French, German or Spanish in high school or who have acquired a knowledge of the language elsewhere may receive credit for that preparation by passing an advanced-level UW-Green Bay course with a grade of "C" or better.
- Demonstrate the equivalent level of proficiency in a non-English language on a proficiency exam. NOTE: Students seeking to fulfill the language requirement through proficiency testing in French, German, or Spanish should contact the appropriate language coordinator. For skill assessment in other languages, students should contact the chair of Modern Languages.

**Supporting Courses**

12

ENG COMP 105 Expository Writing

**Choose one of the following courses:**

HUM STUD/HISTORY 101 Foundations of Western Culture I

HUM STUD/HISTORY 103 World Civilizations I

HUM STUD 201 Introduction to the Humanities I

**Choose one of the following courses:**

HUM STUD/HISTORY 102 Foundations of Western Culture II

HUM STUD/HISTORY 104 World Civilizations II

HUM STUD 202 Introduction to the Humanities II

**Choose one of the following courses:**

FNS 225 Introduction to First Nations Studies: The Tribal World

FNS 226 Introduction to First Nations Studies: Social Justice

HUM STUD 213 Ethnic Diversity and Human Values

**Upper-Level Courses**

24

**Perspectives on Human Values****Classical/Medieval**

HUM STUD 334 Perspectives on Human Values: The Classical World

or HUM STUD 335 Perspectives on Human Values: The Medieval World

**Renaissance/Age of Reason**

HUM STUD 336 Perspectives on Human Values: The Renaissance

or HUM STUD 337 Perspectives on Human Values: The Age of Reason

**Romanticism-Modern/Contemporary**

HUM STUD 382 Perspective on Human Values: Romanticism to Modernism

or HUM STUD 383 Perspectives on Human Values: The Contemporary World

**First Nations/Other Cultures**

HUM STUD 384 Perspectives on Human Values in Other Cultures

or FNS 385 Perspectives on Human Values: First Nations

**Capstone Seminar**

HUM STUD 480 Humanities Seminar

**Elective Courses (choose 9 credits as follows)****Interdisciplinary Courses (choose 6 credits):**<sup>1</sup>

Select any HUM STUD 3XX or 4XX or FNS 3XX or 4XX courses

**Disciplinary Course (choose 3 credits):**

Select any ENGLISH, FRENCH, GERMAN, HISTORY, PHILOS, or SPANISH 3XX or 4XX course.

Total Credits

36

<sup>1</sup> A maximum of 3 credits of HUM STUD 497 Internship may be used to satisfy this requirement.

## Humanistic Studies Minor

### Area of Emphasis

Students must complete one of the following areas of emphasis:

- Cultures and Values (p. 163)
- Linguistics/Teaching English as a Second Language (p. 164)

### Cultures and Values Emphasis

**Supporting Courses**

9

ENG COMP 105 Expository Writing

**Choose one of the following courses:**

HUM STUD/HISTORY 101	Foundations of Western Culture I
HUM STUD/HISTORY 103	World Civilizations I
HUM STUD 201	Introduction to the Humanities I
<b>Choose one of the following courses:</b>	
HUM STUD/HISTORY 102	Foundations of Western Culture II
HUM STUD/HISTORY 104	World Civilizations II
HUM STUD 202	Introduction to the Humanities II
<b>Upper-Level Courses</b>	<b>12</b>
<b>Category I (choose one of the following):</b>	
HUM STUD 334	Perspectives on Human Values: The Classical World
HUM STUD 335	Perspectives on Human Values: The Medieval World
HUM STUD 336	Perspectives on Human Values: The Renaissance
<b>Category II (choose one of the following):</b>	
HUM STUD 337	Perspectives on Human Values: The Age of Reason
HUM STUD 382	Perspective on Human Values: Romanticism to Modernism
HUM STUD 383	Perspectives on Human Values: The Contemporary World
<b>Category III (choose one of the following):</b>	
ENGLISH 336	American Ethnic Literature
ENGLISH 338	World Literatures
ENGLISH 344	African American Literature
HISTORY 337	The Rise of Islamic Civilization to 1800
HISTORY 340	Topics in African American History
HUM STUD 326	Non-Western Religions
HUM STUD 360	Globalization and Cultural Conflict
HUM STUD 384	Perspectives on Human Values in Other Cultures
HUM STUD 385	Perspectives on Human Values: First Nations
<b>Elective (choose 3 credits):</b>	
Select any 300-level or 400-level HUM STUD or FNS course. <sup>1</sup>	
<b>Total Credits</b>	<b>21</b>

<sup>1</sup> Students may not count HUM STUD 497 Internship to satisfy the elective requirement.

## Linguistics/Teaching English as a Second Language Emphasis

<b>Supporting Courses</b>	<b>9</b>
HUM STUD 160	Introduction to Language
<b>One year of a non-English language or equivalent proficiency</b>	
<b>Upper-Level Courses</b>	<b>12</b>
EDUC 315	Teaching English as a Second Language
HUM STUD 319	Second Language Acquisition
HUM STUD 320	Second Language Assessment
HUM STUD 321	Language and Society
<b>Requirement for licensure candidates</b>	
<b>Cross-Cultural Elective (choose 3 credits): <sup>1</sup></b>	
FNS 301	Oneida Language I
FRENCH 497	Internship
GERMAN 497	Internship
HUM DEV 342	Cross Cultural Human Development
HUM STUD 497	Internship
HUM STUD 499	Travel Course
SPANISH 497	Internship
<b>Requirement for non-licensure candidates</b>	

HUM STUD 497	Internship	
Total Credits		21

<sup>1</sup> Another appropriate course or study abroad/internship experience may be substituted by adviser.

## Science Fiction Studies

### Supporting Courses 6

#### Choose one of the following:

HUM STUD 201	Introduction to the Humanities I
or HUM STUD 202	Introduction to the Humanities II

### Introduction to Contemporary Science

#### Choose one of the following:

ENV SCI 102	Introduction to Environmental Sciences
ENV SCI/PHYSICS 141	Astronomy
ENV SCI 260	Energy and Society
GEOSCI 102	Natural Hazards
GEOSCI 202	Physical Geology
GEOSCI 203	Geologic Evolution of the Earth
GEOSCI 222	Ocean of Air: Weather and Climate
HUM BIOL 102	Introduction to Human Biology
HUM BIOL 217	Human Disease and Society
NUT SCI 250	World Food and Population Issues
PHYSICS 180	Concepts of Physics

### Required Courses 12

#### Choose four courses:

ENGLISH 333	Literary Themes
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Topic: American Apocalypse

Topic: Medievalism

Topic: Monsters & Protean Figures

ENGLISH 335	Literary Eras
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Topic: The Victorian Era

ENGLISH 436	Major Author(s)
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Topic: China Melville

Topic: J.R.R. Tolkien

HISTORY 470	Studies in Comparative History
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Topic: Alternate History

HUM STUD 333	Utopia and Anti-utopia
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HUM STUD 340	Science Fiction & Fantasy
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HUM STUD 341	Science Fiction Film
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Total Credits		18
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## Individual Major

Interdisciplinary Major (p. 58)  
(Bachelor of Arts or Bachelor of Science)

**Adviser** – Associate Dean of the College of Liberal Arts and Sciences

An Individual Major is a self-designed program for students who find that their educational objectives cannot adequately be met by any of the University's existing majors. The Individual Major allows students to incorporate courses from several academic areas into a unique program of study intended to prepare them for employment or graduate study in a specific field of interest. In keeping with the interdisciplinary mission of the University, all Individual Majors must consist of coherent programs of study that incorporate courses from several academic areas offered at UW-Green Bay.

To develop an Individual Major, students must meet with a faculty adviser and the Associate Dean of the College of Liberal Arts and Sciences to discuss their educational and career objectives. Students write a proposal which includes a statement of objectives, a list of proposed courses for the major, intended degree, and a rationale explaining how those courses form a coherent program of study. The proposal must be approved by the Associate Dean and faculty adviser before being submitted to the Individualized Learning Committee for final approval. Students completing an Individual Major must complete all University requirements for a degree, including general education, residency, and English and mathematics proficiency. It is highly recommended that students who wish to pursue this course of study have a cumulative GPA of 3.5 or above.

The minimum requirements for an Individual Major include 30 credits of upper-level credits focused on an interdisciplinary theme, and an appropriate array of supporting courses. Students should submit the proposal to the Associate Dean no later than the beginning of their junior year to ensure timely graduation.

Additional information and assistance in planning an Individual Major is available from the Office of the Dean of the College of Liberal Arts and Sciences and at <http://www.uwgb.edu/liberal-arts/resources/individual-major.asp>.

## Information Sciences

Interdisciplinary Major (p. 58)  
(Bachelor of Science)

**Professors** – Phillip Clampitt (communication) (chair)

**Associate Professors** – Peter Breznay (computer science)

**Assistant Professors** – Bryan Carr (media), Ankur Chattopadhyay (computer science), Ioana Coman (journalism), Laleah Fernandez (public relations)

**Lecturers** – Danielle Bina (electronic media, public relations), Ben Geisler (computer science)

The central organizing concept of this major is information — its structures in verbal, visual, mediated, and quantitative forms; its storage, analysis, evaluation, processing and communication by both machines and people. The program depends on current technologies and continues to evolve as technologies change. Students can expect curricular additions and should consult with their adviser early and often to be aware of pending changes.

Computing represents an important dimension of this major, but students also are expected to be thoroughly equipped with problem solving, collaborative, and presentational skills. Practice in working with various kinds of information helps ensure against narrow technical preparation, which too often leads to rapid obsolescence in rapidly changing fields, and it prepares students to make the most creative and useful applications of various information technologies.

A goal of the program is to train students to conceptualize and solve information problems in interdisciplinary situations. There are two tracks for the major. The **Information Technology** track offers a solid grounding in computing, mathematics, and communication skills and then builds on that grounding with a broad array of theoretical and applied approaches to information technologies. The **Information Science** track offers a balance of computing and communication courses to provide students with a flexible array of technical and interpersonal skills for a wider variety of career options.

Career paths for Information Sciences graduates are changing rapidly and UW-Green Bay graduates report that the breadth of this program has been important to them. Some have essentially created their own positions. Some have pursued graduate work. Others have entered a wide variety of jobs after graduation in areas such as information technology, advertising, marketing and sales, systems analysis, and human resources.

The program no longer offers an interdisciplinary minor in Information Sciences.

In addition to the major in Information Sciences, UW-Green Bay also offers an interdisciplinary major and minor in Computer Science. The programs in Information Sciences and in Computer Science all require early and frequent consultations with faculty advisers.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

### Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Information Science Emphasis (p. 167)
- Information Technology Emphasis (p. 167)

## Information Sciences Major

### Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Information Science Emphasis (p. 167)
- Information Technology Emphasis (p. 167)

## Information Science Emphasis

<b>Supporting Courses</b>		<b>30</b>
COMM 133	Fundamentals of Public Address	
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMP SCI 240	Discrete Mathematics	
COMP SCI 256	Introduction to Software Design	
COMP SCI 221	Database Design & Management	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>25</b>
COMP SCI 316	Advanced Software Design	
COMP SCI 331	Internet Programming	
COMP SCI 360	Systems Analysis and Project Management	
INFO SCI 308	Information Technologies	
INFO SCI 410	Advanced Information Problems	
INFO SCI 430	Information, Media and Society	
<b>Elective Courses (choose 6 credits):</b>		
Six credits should be from upper-level courses and approved by the adviser		
Total Credits		<b>55</b>

## Information Technology Emphasis

<b>Supporting Courses</b>		<b>36</b>
COMM 133	Fundamentals of Public Address	
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication	
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 221	Database Design & Management	
COMP SCI 231	Introduction to IT Operations	
COMP SCI 240	Discrete Mathematics	
COMP SCI 256	Introduction to Software Design	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
<b>Upper Level Courses</b>		<b>28</b>
COMP SCI 316	Advanced Software Design	
COMP SCI 353	Computer Architecture and Organization	
COMP SCI 358	Data Communication and Computer Networks	
COMP SCI 360	Systems Analysis and Project Management	
COMP SCI 451	Advanced Database	
COMP SCI 452	Operating Systems Using Linux	
COMP SCI 490	Capstone Essay in Computer Science	
<b>Elective Courses (choose 8 credits):</b>		
Eight credits should be from upper-level courses and approved by the adviser		
Total Credits		<b>64</b>

## ILS - Bachelor of Applied Studies

The Bachelor of Applied Studies (B.A.S.) degree with a major in Integrative Leadership Studies is offered through the University's Adult Degree Program. The Bachelor of Applied Studies degree is specifically designed for students who have earned an applied associate degree from a technical college or other regionally accredited institution. This program is primarily an online bachelor's degree that offers an interdisciplinary education providing foundational leadership skills with a focus on communication, critical thinking, and problem-solving.

Students accepted into this program will be able to transfer coursework from any Wisconsin Technical College System campus or other regionally-accredited two-year institution into UW-Green Bay as a block of 60 degree credits and enter the University as a junior. Students complete a minimum of 60 additional credits to satisfy UW-Green Bay general education requirements, requirements for the Integrative Leadership Studies major and all other degree requirements.

### Areas of Emphasis

Completion of an Area of Emphasis is required for the Bachelor of Applied Studies Degree. (Note: Not all Areas of Emphasis are available fully online). These are the Areas of Emphasis currently offered:

- Applied Communication (p. 168)
- Arts (p. 169)
- Emergency Management (p. 169)
- Environmental Policy Studies (p. 170)
- Human Development (p. 170)
- Leadership in Public Service (p. 171)
- Nonprofit Leadership (p. 172)
- Self-Directed (p. 172)

## Applied Communication Emphasis

### Supporting Courses

6

IST 106	Adult Learning Seminar
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#### Writing Course

COMM 185	Business and Media Writing <sup>1</sup>
or ENG COMP 105	Expository Writing

### Upper-Level Courses

6

IST 400	Capstone: Synthesis and Assessment of Learning
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#### Critical Thinking (choose one course):

ECON 307	History of Economic Thought
HUM DEV 424	The Development of Creative and Critical Thinking
PHILOS 301	Ethical Theory
PHILOS 401	Plato and Aristotle

### Applied Communication Emphasis

24

#### Supporting Courses

COMM 133	Fundamentals of Public Address
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#### Choose two of the following courses:

COMM 102	Introduction to Communication
COMM 185	Business and Media Writing <sup>1</sup>
COMM 205	Elements of Media
COMM 290	Communication Problems and Research Methods

#### Choose one of the following courses:

COMM 166	Fundamentals of Interpersonal Communication
or COMM 237	Small Group Communication

#### Elective Courses (choose 12 credits):

COMM 308	Information Technologies
COMM 333	Persuasion and Argumentation
COMM 335	Organizational Communication



COMM 336	Theories of the Interview
COMM 340	Mediation and Conflict Resolution
COMM 380	Communication Law
COMM 381	Principles of Public Relations/Corporate Communications
COMM 430	Information, Media and Society
COMM 445	Human Communication Theory
COMM 477	Social Media Strategies
COMM 480	Cases in Communications and Media Management
<hr/>	
Total Credits	36

## Arts Emphasis

<b>Supporting Courses</b>	6
IST 106	Adult Learning Seminar
<b>Writing Course</b>	
COMM 185 or ENG COMP 105	Business and Media Writing Expository Writing
<b>Upper-Level Courses</b>	6
IST 400	Capstone: Synthesis and Assessment of Learning
<b>Critical Thinking (choose one course):</b>	
ECON 307	History of Economic Thought
HUM DEV 424	The Development of Creative and Critical Thinking
PHILOS 301	Ethical Theory
PHILOS 401	Plato and Aristotle
<b>Arts Emphasis</b>	18
<b>Choose one of the following courses:</b>	
ARTS MGT 256	Understanding the Arts
ARTS MGT 257	Arts in the Community
MUSIC 121	Survey of Western Music
MUSIC 224	Popular Music Since 1955
THEATRE 110	Introduction to Theatre Arts
<b>Choose five of the following courses:</b> <sup>1</sup>	
ART 320	Art and Ideas
ART 376	Modern American Culture
ART 379	Women, Art and Image
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 364	Musical Theatre History
<hr/>	
Total Credits	30

## Emergency Management Emphasis

<b>Supporting Courses</b>	6
IST 106	Adult Learning Seminar
<b>Writing Course</b>	
COMM 185 or ENG COMP 105	Business and Media Writing Expository Writing
<b>Upper-Level Courses</b>	6
IST 400	Capstone: Synthesis and Assessment of Learning
<b>Critical Thinking (choose one course):</b>	
ECON 307	History of Economic Thought
HUM DEV 424	The Development of Creative and Critical Thinking

PHILOS 301	Ethical Theory	
PHILOS 401	Plato and Aristotle	
<b>Emergency Management Emphasis (choose 12 credits):</b>		<b>12</b>
PU EN AF 335	Principles and Practices of Emergency Management	
PU EN AF 336	Strategic Emergency Preparedness, Planning and Implementation	
PU EN AF 337	Disaster Response Operations and Management	
PU EN AF 338	Disaster Recovery	
PU EN AF 339	Political and Policy Dimensions of Emergency Management	
Total Credits		24

## Environmental Policy Studies Emphasis

<b>Supporting Courses</b>		<b>6</b>
ILS 198	Integrative Leadership Seminar I	
<b>Writing Course</b>		
COMM 185 or ENG COMP 105	Business and Media Writing Expository Writing	
<b>Upper-Level Courses</b>		<b>6</b>
ILS 400	Capstone: Synthesis and Assessment of Learning	
<b>Critical Thinking (choose one course):</b>		
ECON 307	History of Economic Thought	
HUM DEV 424	The Development of Creative and Critical Thinking	
PHILOS 301	Ethical Theory	
PHILOS 401	Plato and Aristotle	
<b>Environmental Policy Studies Emphasis</b>		<b>21</b>
<b>Choose 3 of the following courses:</b>		
ECON 203	Micro Economic Analysis	
ENV SCI 102	Introduction to Environmental Sciences	
GEOSCI 222	Ocean of Air: Weather and Climate	
POL SCI 101	American Government and Politics	
PU EN AF 102	Environment and Society	
<b>Choose 12 credits of the following elective courses:</b>		
ENV SCI 303	Environmental Sustainability	
PU EN AF 301	Environmental Politics and Policy	
PU EN AF 324	Transitioning to Sustainable Communities	
PU EN AF 350	GIS in Public and Environmental Policy	
PU EN AF 378	Environmental Law	
PU EN AF 428	Public and Nonprofit Program Evaluation	
PU EN AF 453	Cost Benefit Analysis	
Total Credits		33

## Human Development Emphasis

<b>Supporting Courses</b>		<b>6</b>
IST 106	Adult Learning Seminar	
<b>Writing Course</b>		
COMM 185 or ENG COMP 105	Business and Media Writing Expository Writing	
<b>Upper-Level Courses</b>		<b>6</b>
IST 400	Capstone: Synthesis and Assessment of Learning	
<b>Critical Thinking (choose one course):</b>		
ECON 307	History of Economic Thought	
HUM DEV 424	The Development of Creative and Critical Thinking	

PHILOS 301	Ethical Theory	
PHILOS 401	Plato and Aristotle	
<b>Human Development Emphasis</b>		<b>18-19</b>
<b>Supporting Courses</b>		
HUM DEV 102	Introduction to Human Development	
<b>Choose one of the following courses:</b>		
ANTHRO 100	Varieties of World Culture	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
HUM BIOL 102	Introduction to Human Biology	
SOCIOL 202	Introduction to Sociology	
<b>Complete two of the following courses:</b>		
HUM DEV 331	Infancy and Early Childhood	
HUM DEV 332	Middle Childhood and Adolescence	
HUM DEV 343	Adulthood and Aging	
<b>Complete two additional courses from the subject of Human Development at the 300-400 level.</b> <sup>1</sup>		
Total Credits		30-31

<sup>1</sup> Excluding HUM DEV 478, HUM DEV 495, HUM DEV 496, HUM DEV 497, and HUM DEV 498.

## Leadership in Public Service Emphasis

<b>Supporting Courses</b>		<b>6</b>
ILS 198	Integrative Leadership Seminar I	
<b>Writing Course</b>		
COMM 185 or ENG COMP 105	Business and Media Writing Expository Writing	
<b>Upper-Level Courses</b>		<b>6</b>
ILS 400	Capstone: Synthesis and Assessment of Learning	
<b>Critical Thinking (choose one course):</b>		
ECON 307	History of Economic Thought	
HUM DEV 424	The Development of Creative and Critical Thinking	
PHILOS 301	Ethical Theory	
PHILOS 401	Plato and Aristotle	
<b>Leadership in Public Service Emphasis</b>		<b>24</b>
<b>Supporting Courses</b>		
PU EN AF 202	Introduction to Public Policy	
POL SCI 101 or PU EN AF 215	American Government and Politics Introduction to Public Administration	
<b>Upper-Level Courses</b>		
PU EN AF 324	Transitioning to Sustainable Communities	
PU EN AF 344	Leadership in Organizations	
PU EN AF 407	Service in the Public Sector <sup>1</sup>	
PU EN AF 430	Seminar in Ethics and Public Action	
<b>Choose two of the following courses:</b>		
COMM 340	Mediation and Conflict Resolution	
PU EN AF 315	Public and Non-Profit Management	
PU EN AF 407	Service in the Public Sector	
PU EN AF 408	Public Policy Analysis	
PU EN AF 415	Public and Nonprofit Budgeting	
PU EN AF 452	Planning Theory and Methods	
Total Credits		36

- 1 PU EN AF 407 may be taken twice. (ASK about how to obtain credit for Institute and TRMC training.) Only second attempt may be used as part of the upper-level elective choice.

## Nonprofit Leadership Emphasis

<b>Supporting Courses</b>	<b>6</b>
IST 106                      Adult Learning Seminar	
<b>Writing Course</b>	
COMM 185                      Business and Media Writing or ENG COMP 105              Expository Writing	
<b>Upper-Level Courses</b>	<b>6</b>
IST 400                      Capstone: Synthesis and Assessment of Learning	
<b>Critical Thinking (choose one course):</b>	
ECON 307                      History of Economic Thought	
HUM DEV 424                  The Development of Creative and Critical Thinking	
PHILOS 301                      Ethical Theory	
PHILOS 401                      Plato and Aristotle	
<b>Nonprofit Leadership Emphasis</b>	<b>24</b>
<b>Supporting Courses</b>	
PU EN AF 215                  Introduction to Public Administration	
<b>Choose one of the following courses:</b>	
POL SCI 100                      Global Politics and Society	
POL SCI 101                      American Government and Politics	
PU EN AF 202                  Introduction to Public Policy	
<b>Upper Level Courses</b>	
Five courses are required. Ask adviser for additional course choices.	
PU EN AF 315                      Public and Non-Profit Management	
PU EN AF 415                      Public and Nonprofit Budgeting	
PU EN AF 425                      Fundraising and Marketing for Nonprofits	
PU EN AF 428                      Public and Nonprofit Program Evaluation	
<b>Choose one of the following courses:</b>	
PU EN AF 344                      Leadership in Organizations	
PU EN AF 426                      Strategic Philanthropy: Civic Engagement Through Giving	
PU EN AF 430                      Seminar in Ethics and Public Action	
PU EN AF 452                      Planning Theory and Methods	
PU EN AF 453                      Cost Benefit Analysis	
<b>Total Credits</b>	<b>36</b>

## Self-Directed Emphasis

<b>Supporting Courses</b>	<b>6</b>
IST 106                      Adult Learning Seminar	
<b>Writing Course</b>	
COMM 185                      Business and Media Writing or ENG COMP 105              Expository Writing	
<b>Upper-Level Courses</b>	<b>6</b>
IST 400                      Capstone: Synthesis and Assessment of Learning	
<b>Critical Thinking (choose one course):</b>	
ECON 307                      History of Economic Thought	
HUM DEV 424                  The Development of Creative and Critical Thinking	
PHILOS 301                      Ethical Theory	
PHILOS 401                      Plato and Aristotle	
<b>Self-Directed Emphasis</b>	<b>12</b>

Select 12 credits of upper-level 300 or 400 courses approved by an academic adviser.

Total Credits

24

## Integrative Leadership Studies

Interdisciplinary Major (p. 58) Designed for Adult and Distance Learners  
(Bachelor of Arts)

### Contact information:

Office: 920-465-2423

Toll free: 800-621-2313

Fax: 920-465-2643

E-mail: [adultdegrees@uwgb.edu](mailto:adultdegrees@uwgb.edu)

Integrative Leadership Studies crosses disciplinary, organizational, community, and cultural boundaries. The Integrative Leadership Studies major is designed to deliver an interdisciplinary educational experience while promoting the development of fundamental leadership skills, such as critical and creative thinking, problem-solving, and communication. Integrative Leadership Studies teaches students how to contribute as citizens in a complex, multi-cultural world. Students gain a broad intellectual understanding of the interrelationships among several areas of study including the social sciences, natural sciences, fine arts, and humanities.

Integrative Leadership Studies provides future leaders with the knowledge to deal with complex problems and the skills to provide multi-perspective solutions. Graduates are well-positioned to embark on new careers or advance in their current work. The Integrative Leadership Studies major also prepares students for graduate work in multiple fields.

Integrative Leadership Studies students must complete an area of emphasis. Areas of emphasis include Arts, Applied Communication, Emergency Management, Environmental Policy Studies, Human Development, Nonprofit Leadership and Leadership in Public Service. Students also have the option to create an emphasis tailored to their individual needs through a Self-Directed area of emphasis (12 credits of upper-level courses, with no more than six of the credits in any single discipline). Additional areas of emphasis are currently being developed.

The Bachelor of Arts Degree with a major in Integrative Leadership Studies (ILS) is offered through the University's Adult Degree Program. This program is primarily an online bachelor's degree program designed to promote an interdisciplinary education providing a strong foundation of leadership skills with a focus on communication, critical thinking, and problem-solving. Although the degree can be completed fully online, ILS students are able to take courses on campus if desired.

### Areas of Emphasis

Completion of an Area of Emphasis is required for the Bachelor of Arts Degree. (Note: Not all Areas of Emphasis are available fully online). These are the Areas of Emphasis currently offered:

- Applied Communication (p. 174)
- Arts (p. 175)
- Emergency Management (p. 176)
- Environmental Policy Studies (p. 177)
- Human Development (p. 178)
- Leadership in Public Service (p. 179)
- Nonprofit Leadership (p. 180)
- Self-Directed (p. 181)

The Bachelor of Applied Studies (B.A.S.) degree with a major in Integrative Leadership Studies is offered through the University's Adult Degree Program. The Bachelor of Applied Studies degree is specifically designed for students who have earned an applied associate degree from a technical college or other regionally accredited institution. This program is primarily an online bachelor's degree that offers an interdisciplinary education providing foundational leadership skills with a focus on communication, critical thinking, and problem-solving.

Students accepted into this program will be able to transfer coursework from any Wisconsin Technical College System campus or other regionally-accredited two-year institution into UW-Green Bay as a block of 60 degree credits and enter the University as a junior. Students complete a minimum of 60 additional credits to satisfy UW-Green Bay general education requirements, requirements for the Integrative Leadership Studies major and all other degree requirements.

### Areas of Emphasis

Completion of an Area of Emphasis is required for the Bachelor of Applied Studies Degree. (Note: Not all Areas of Emphasis are available fully online). These are the Areas of Emphasis currently offered:

- Applied Communication (p. 168)
- Arts (p. 169)
- Emergency Management (p. 169)
- Environmental Policy Studies (p. 170)
- Human Development (p. 170)
- Leadership in Public Service (p. 171)
- Nonprofit Leadership (p. 172)
- Self-Directed (p. 172)

## Applied Communication Emphasis

### Supporting Courses

12-13

ILS 198	Integrative Leadership Seminar I
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#### Writing Course

COMM 185	Business and Media Writing <sup>1</sup>
or ENG COMP 105	Expository Writing

#### Communication Skills

COMM 336	Theories of the Interview
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#### Mathematics (choose one course):

BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
MATH 101	Intermediate Algebra (or more advanced math level or placement per WMPT exam)
MATH 260	Introductory Statistics

### Upper-Level Courses

24

#### Critical Thinking (choose one course):

ECON 307	History of Economic Thought
HUM DEV 424	The Development of Creative and Critical Thinking
PHILOS 301	Ethical Theory
PHILOS 401	Plato and Aristotle

#### Humanities (choose 6 credits):

FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory

Or choose from 300- or 400-level courses in the following subjects: English, History, Humanistic Studies, Philosophy

#### Natural or Biological Sciences (choose 6 credits from one subject or multiple subjects):

Choose 300 or 400-level Natural Science courses in the following subjects: Biology, Chemistry, Environmental Science, Human Biology, Geoscience, Nutritional Sciences or Physics

#### Social Science (choose 6 credits):

Choose a 300- or 400-level courses in the following subjects: Anthropology, Community Sciences, Economics, Geography, Human Development, Political Science, Psychology, Public and Environmental Affairs, Democracy and Justice Studies, Sociology and Urban and Regional Studies

#### Capstone Required Course

ILS 400	Capstone: Synthesis and Assessment of Learning
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### Applied Communication Emphasis

24

#### Supporting Courses

COMM 133	Fundamentals of Public Address
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#### Choose two courses:

COMM 102	Introduction to Communication
COMM 205	Elements of Media
COMM 185	Business and Media Writing
COMM 290	Communication Problems and Research Methods

#### Choose one of the following courses:

COMM 166	Fundamentals of Interpersonal Communication
or COMM 237	Small Group Communication

**Upper-Level Courses (choose 12 credits):**

COMM 308	Information Technologies
COMM 333	Persuasion and Argumentation
COMM 335	Organizational Communication
COMM 340	Mediation and Conflict Resolution
COMM 380	Communication Law
COMM 381	Principles of Public Relations/Corporate Communications
COMM 430	Information, Media and Society
COMM 445	Human Communication Theory
COMM 477	Social Media Strategies
COMM 480	Cases in Communications and Media Management

Total Credits

60-61

<sup>1</sup> Students who complete COMM 185 may not use this course as part of their communication supporting courses. If students complete ENG COMP 105 they can enroll in COMM 185 as one of these supporting courses.

## Arts Emphasis

**Supporting Courses**

12-13

ILS 198	Integrative Leadership Seminar I
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**Writing Course**

COMM 185 or ENG COMP 105	Business and Media Writing Expository Writing
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**Communication Skills**

COMM 133 or COMM 336	Fundamentals of Public Address Theories of the Interview
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**Mathematics (choose one course):**

BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
MATH 101	Intermediate Algebra (or more advanced math level or placement per WMPT exam)
MATH 260	Introductory Statistics

**Upper-Level Courses**

24

**Critical Thinking (choose one course):**

ECON 307	History of Economic Thought
HUM DEV 424	The Development of Creative and Critical Thinking
PHILOS 301	Ethical Theory
PHILOS 401	Plato and Aristotle

**Humanities (choose 6 credits):**

FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory

Or choose from 300- or 400-level courses in the following subjects: English, History, Humanistic Studies, Philosophy

**Natural or Biological Sciences (choose 6 credits from one subject or multiple subjects):**

Choose 300 or 400-level Natural Science courses in the following subjects: Biology, Chemistry, Environmental Science, Human Biology, Geoscience, Nutritional Sciences or Physics

**Social Science (choose 6 credits):**

Choose a 300- or 400-level courses in the following subjects: Anthropology, Community Sciences, Economics, Geography, Human Development, Political Science, Psychology, Public and Environmental Affairs, Democracy and Justice Studies, Sociology and Urban and Regional Studies

**Capstone Required Course**

ILS 400	Capstone: Synthesis and Assessment of Learning
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**Arts Emphasis**

18

**Choose one of the following courses:**

ARTS MGT 256	Understanding the Arts
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ARTS MGT 257	Arts in the Community
MUSIC 121	Survey of Western Music
MUSIC 224	Popular Music Since 1955
THEATRE 110	Introduction to Theatre Arts
<b>Upper-Level Courses (choose 15 credits):</b> <sup>1</sup>	
ART 320	Art and Ideas
ART 376	Modern American Culture
ART 379	Women, Art and Image
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 364	Musical Theatre History

Total Credits

54-55

<sup>1</sup> Students may substitute a course from this list if they are able to take on-campus courses in:

- Studio Art or Art History courses (Art subjects)
- Applied Music courses (Music subjects)
- Theatre History or Applied Theatre courses (Theatre subjects)

## Emergency Management Emphasis

### Supporting Courses

12-13

ILS 198	Integrative Leadership Seminar I
<b>Writing Course</b>	
COMM 185 or ENG COMP 105	Business and Media Writing Expository Writing
<b>Communication Skills</b>	
COMM 133 or COMM 336	Fundamentals of Public Address Theories of the Interview
<b>Mathematics (choose one course):</b>	
BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
MATH 101	Intermediate Algebra (or more advanced math level or placement per WMPT exam)
MATH 260	Introductory Statistics

### Upper-Level Courses

24

<b>Critical Thinking (choose one course):</b>	
ECON 307	History of Economic Thought
HUM DEV 424	The Development of Creative and Critical Thinking
PHILOS 301	Ethical Theory
PHILOS 401	Plato and Aristotle
<b>Humanities (choose 6 credits):</b>	
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory
Or choose from 300- or 400-level courses in the following subjects: English, History, Humanistic Studies, Philosophy	
<b>Natural or Biological Sciences (choose 6 credits from one subject or multiple subjects):</b>	
Choose 300 or 400-level Natural Science courses in the following subjects: Biology, Chemistry, Environmental Science, Human Biology, Geoscience, Nutritional Sciences or Physics	
<b>Social Science (choose 6 credits):</b>	
Choose a 300- or 400-level courses in the following subjects: Anthropology, Community Sciences, Economics, Geography, Human Development, Political Science, Psychology, Public and Environmental Affairs, Democracy and Justice Studies, Sociology and Urban and Regional Studies	
<b>Capstone Required Course:</b>	
ILS 400	Capstone: Synthesis and Assessment of Learning

**Emergency Management Emphasis (choose 12 credits):**

12



PU EN AF 335	Principles and Practices of Emergency Management
PU EN AF 336	Strategic Emergency Preparedness, Planning and Implementation
PU EN AF 337	Disaster Response Operations and Management
PU EN AF 338	Disaster Recovery
PU EN AF 339	Political and Policy Dimensions of Emergency Management
<hr/>	
Total Credits	48-49

## Environmental Policy Studies Emphasis

### Supporting Courses 12-13

ILS 198	Integrative Leadership Seminar I
<b>Writing Course</b>	
COMM 185	Business and Media Writing
or ENG COMP 105	Expository Writing
<b>Communication Skills</b>	
COMM 133	Fundamentals of Public Address
or COMM 336	Theories of the Interview
<b>Mathematics (choose one course):</b>	
BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
MATH 101	Intermediate Algebra (or more advanced math level or placement per WMPT exam)
MATH 260	Introductory Statistics

### Upper-Level Courses 24

<b>Critical Thinking (choose one course):</b>	
ECON 307	History of Economic Thought
HUM DEV 424	The Development of Creative and Critical Thinking
PHILOS 301	Ethical Theory
PHILOS 401	Plato and Aristotle
<b>Humanities (choose 6 credits):</b>	
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations Ethnohistory
Or choose from 300- or 400-level courses in the following subjects: English, History, Humanistic Studies, Philosophy	
<b>Natural or Biological Sciences (choose 6 credits from one subject or multiple subjects):</b>	
Choose 300 or 400-level Natural Science courses in the following subjects: Biology, Chemistry, Environmental Science, Human Biology, Geoscience, Nutritional Sciences or Physics	
<b>Social Science (choose 6 credits):</b>	
Choose a 300- or 400-level courses in the following subjects: Anthropology, Community Sciences, Economics, Geography, Human Development, Political Science, Psychology, Public and Environmental Affairs, Democracy and Justice Studies, Sociology and Urban and Regional Studies	
<b>Capstone Required Course:</b>	
ILS 400	Capstone: Synthesis and Assessment of Learning

### Environmental Policy Studies Emphasis 21

<b>Choose three of the following courses:</b>	
ECON 203	Micro Economic Analysis
ENV SCI 102	Introduction to Environmental Sciences
GEOSCI 222	Ocean of Air: Weather and Climate
POL SCI 101	American Government and Politics
PU EN AF 102	Environment and Society
<b>Choose four of the following courses:</b>	
ENV SCI 303	Environmental Sustainability
PU EN AF 301	Environmental Politics and Policy
PU EN AF 324	Transitioning to Sustainable Communities

PU EN AF 350	GIS in Public and Environmental Policy	
PU EN AF 378	Environmental Law	
PU EN AF 428	Public and Nonprofit Program Evaluation	
PU EN AF 453	Cost Benefit Analysis	
Total Credits		57-58

## Human Development Emphasis

### Supporting Courses 12-13

ILS 198	Integrative Leadership Seminar I	
<b>Writing Course</b>		
COMM 185	Business and Media Writing	
or ENG COMP 105	Expository Writing	
<b>Communication Skills</b>		
COMM 133	Fundamentals of Public Address	
or COMM 336	Theories of the Interview	
<b>Mathematics (choose one course):</b>		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
MATH 101	Intermediate Algebra (or more advanced math level or placement per WMPT exam)	
MATH 260	Introductory Statistics	

### Upper-Level Courses 24

<b>Critical Thinking (choose one course):</b>		
ECON 307	History of Economic Thought	
HUM DEV 424	The Development of Creative and Critical Thinking	
PHILOS 301	Ethical Theory	
PHILOS 401	Plato and Aristotle	
<b>Humanities (choose 6 credits):</b>		
FNS 372	Indigenous Nations Oral and Storytelling Traditions	
FNS 374	Wisconsin First Nations Ethnohistory	
Or choose from 300- or 400-level courses in the following subjects: English, History, Humanistic Studies, Philosophy		
<b>Natural or Biological Sciences (choose 6 credits from one subject or multiple subjects):</b>		
Choose 300- or 400-level Natural or Biological Science courses in the following subjects: Biology, Chemistry, Environmental Science, Geoscience, Human Biology, Nutritional Sciences or Physics		
<b>Social Science (choose 6 credits):</b>		
Choose a 300- or 400-level courses in the following subjects: Anthropology, Community Sciences, Economics, Geography, Human Development, Political Science, Psychology, Public and Environmental Affairs, Democracy and Justice Studies, Sociology and Urban and Regional Studies		
<b>Capstone Required Course:</b>		
ILS 400	Capstone: Synthesis and Assessment of Learning	

### Human Development Emphasis 18-19

HUM DEV 102	Introduction to Human Development	
<b>Choose one of the following courses:</b>		
ANTHRO 100	Varieties of World Culture	
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
& BIOLOGY 202	and Principles of Biology Lab: Cellular and Molecular Processes	
HUM BIOL 102	Introduction to Human Biology	
SOCIOL 202	Introduction to Sociology	
<b>Choose two of the following courses:</b>		
HUM DEV 331	Infancy and Early Childhood	
HUM DEV 332	Middle Childhood and Adolescence	
HUM DEV 343	Adulthood and Aging	

Students must complete two additional upper-level courses in Human Development and may complete HUM DEV 331, 332 or 343 if not used to complete the requirement above.

**The following courses are encouraged but do not satisfy the requirements for the area of emphasis**

HUM DEV 478	Honors in the Major
HUM DEV 495	Teaching Assistantship
HUM DEV 496	Research Assistantship
HUM DEV 497	Internship
HUM DEV 498	Independent Study

Total Credits

54-56

## ILS - Bachelor of Arts

The Bachelor of Arts Degree with a major in Integrative Leadership Studies (ILS) is offered through the University's Adult Degree Program. This program is primarily an online bachelor's degree program designed to promote an interdisciplinary education providing a strong foundation of leadership skills with a focus on communication, critical thinking, and problem-solving. Although the degree can be completed fully online, ILS students are able to take courses on campus if desired.

### Areas of Emphasis

Completion of an Area of Emphasis is required for the Bachelor of Arts Degree. (Note: Not all Areas of Emphasis are available fully online). These are the Areas of Emphasis currently offered:

- Applied Communication (p. 174)
- Arts (p. 175)
- Emergency Management (p. 176)
- Environmental Policy Studies (p. 177)
- Human Development (p. 178)
- Leadership in Public Service (p. 179)
- Nonprofit Leadership (p. 180)
- Self-Directed (p. 181)

## Leadership in Public Service Emphasis

### Supporting Courses

12-13

ILS 198	Integrative Leadership Seminar I
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#### Writing Course

ENG COMP 105	Expository Writing
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#### Communication Skills

COMM 336	Theories of the Interview
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#### Mathematics (choose one course):

BUS ADM 216	Business Statistics
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COMM SCI 205	Social Science Statistics
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MATH 101	Intermediate Algebra (or more advanced math level or placement per WMPT exam)
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MATH 260	Introductory Statistics
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### Upper-Level Courses

24

#### Critical Thinking (choose one course):

ECON 307	History of Economic Thought
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HUM DEV 424	The Development of Creative and Critical Thinking
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PHILOS 301	Ethical Theory
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PHILOS 401	Plato and Aristotle
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#### Humanities (choose 6 credits):

FNS 372	Indigenous Nations Oral and Storytelling Traditions
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FNS 374	Wisconsin First Nations Ethnohistory
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Or choose from 300- or 400-level courses in the following subjects: English, History, Humanistic Studies, Philosophy

#### Natural or Biological Sciences (choose 6 credits from one subject or multiple subjects):

Choose 300 or 400-level Natural Science courses in the following subjects: Biology, Chemistry, Environmental Science, Human Biology, Geoscience, Nutritional Sciences or Physics

**Social Science (choose 6 credits):**

Choose a 300- or 400-level courses in the following subjects: Anthropology, Community Sciences, Economics, Geography, Human Development, Political Science, Psychology, Public and Environmental Affairs, Democracy and Justice Studies, Sociology and Urban and Regional Studies

**Capstone Required Course:**

ILS 400 Capstone: Synthesis and Assessment of Learning

**Leadership in Public Service Emphasis** 24

**Supporting Courses**

PU EN AF 202 Introduction to Public Policy  
 POL SCI 101 American Government and Politics  
 or PU EN AF 215 Introduction to Public Administration

**Upper-level Courses**

PU EN AF 324 Transitioning to Sustainable Communities  
 PU EN AF 344 Leadership in Organizations  
 PU EN AF 407 Service in the Public Sector  
 PU EN AF 430 Seminar in Ethics and Public Action

**Choose two of the following courses:**

COMM 340 Mediation and Conflict Resolution  
 PU EN AF 315 Public and Non-Profit Management  
 PU EN AF 407 Service in the Public Sector <sup>1</sup>  
 PU EN AF 408 Public Policy Analysis  
 PU EN AF 415 Public and Nonprofit Budgeting  
 PU EN AF 452 Planning Theory and Methods

Total Credits 60-61

<sup>1</sup> PU EN AF 407 may be taken twice. (ASK about how to obtain credit for Institute and TRMC training.) Only second attempt may be used as part of the upper level elective choice.

## Nonprofit Leadership Emphasis

**Supporting Courses** 12-13

ILS 198 Integrative Leadership Seminar I

**Writing Course**

ENG COMP 105 Expository Writing

**Communication Skills**

COMM 336 Theories of the Interview

**Mathematics (choose one course):**

BUS ADM 216 Business Statistics  
 COMM SCI 205 Social Science Statistics  
 MATH 101 Intermediate Algebra (or more advanced math level or placement per WMPT exam)  
 MATH 260 Introductory Statistics

**Upper-Level Courses** 24

**Critical Thinking (choose one course):**

ECON 307 History of Economic Thought  
 HUM DEV 424 The Development of Creative and Critical Thinking  
 PHILOS 301 Ethical Theory  
 PHILOS 401 Plato and Aristotle

**Humanities (choose 6 credits):**

FNS 372 Indigenous Nations Oral and Storytelling Traditions  
 FNS 374 Wisconsin First Nations Ethnohistory

Or choose from 300- or 400-level courses in the following subjects: English, History, Humanistic Studies, Philosophy

**Natural or Biological Sciences (choose 6 credits from one subject or multiple subjects):**

Choose 300 or 400-level Natural Science courses in the following subjects: Biology, Chemistry, Environmental Science, Human Biology, Geoscience, Nutritional Sciences or Physics

**Social Science (choose 6 credits):**

Choose a 300- or 400-level courses in the following subjects: Anthropology, Community Sciences, Economics, Geography, Human Development, Political Science, Psychology, Public and Environmental Affairs, Democracy and Justice Studies, Sociology and Urban and Regional Studies

**Capstone Required Course:**

ILS 400 Capstone: Synthesis and Assessment of Learning

**Nonprofit Leadership Emphasis**

24

**Supporting Courses**

PU EN AF 215 Introduction to Public Administration

**Choose one of the following courses:**

POL SCI 100 Global Politics and Society

POL SCI 101 American Government and Politics

PU EN AF 202 Introduction to Public Policy

**Upper-level Courses**

PU EN AF 315 Public and Non-Profit Management

PU EN AF 415 Public and Nonprofit Budgeting

PU EN AF 425 Fundraising and Marketing for Nonprofits

PU EN AF 428 Public and Nonprofit Program Evaluation

**Choose two of the following courses:**

PU EN AF 344 Leadership in Organizations

PU EN AF 426 Strategic Philanthropy: Civic Engagement Through Giving

PU EN AF 430 Seminar in Ethics and Public Action

PU EN AF 452 Planning Theory and Methods

PU EN AF 453 Cost Benefit Analysis

Total Credits

60-61

## Self-Directed Emphasis

**Supporting Courses**

12-13

ILS 198 Integrative Leadership Seminar I

**Writing Course**

COMM 185 Business and Media Writing

or ENG COMP 105 Expository Writing

**Communication Skills**

COMM 133 Fundamentals of Public Address

or COMM 336 Theories of the Interview

**Mathematics (choose one course):**

BUS ADM 216 Business Statistics

COMM SCI 205 Social Science Statistics

MATH 101 Intermediate Algebra (or more advanced math level or placement per WMPT exam)

MATH 260 Introductory Statistics

**Upper-Level Courses**

24

**Critical Thinking (choose one course):**

ECON 307 History of Economic Thought

HUM DEV 424 The Development of Creative and Critical Thinking

PHILOS 301 Ethical Theory

PHILOS 401 Plato and Aristotle

**Humanities (choose 6 credits):**

FNS 372 Indigenous Nations Oral and Storytelling Traditions

FNS 374 Wisconsin First Nations Ethnohistory

Or choose from 300- or 400-level courses in the following subjects: English, History, Humanistic Studies, Philosophy

**Natural or Biological Sciences (choose 6 credits from one subject or multiple subjects):**

Choose 300 or 400-level Natural Science courses in the following subjects: Biology, Chemistry, Environmental Science, Human Biology, Geoscience, Nutritional Sciences or Physics

**Social Science (choose 6 credits):**

Choose a 300- or 400-level courses in the following subjects: Anthropology, Community Sciences, Economics, Geography, Human Development, Political Science, Psychology, Public and Environmental Affairs, Democracy and Justice Studies, Sociology and Urban and Regional Studies

**Capstone Required Course:**

ILS 400 Capstone: Synthesis and Assessment of Learning

**Self-Directed Emphasis**

12

Choose 12 credits of 300 - 400 upper level courses approved by an adviser.

Total Credits

48-49

## Liberal Arts and Sciences Majors and Minors

### Academic Programs

- Art (p. 66)
- Arts Management (p. 71)
- Biology (p. 73)
- Chemistry (p. 86)
- Communication (p. 90)
- Computer Science (p. 94)
- Dance (p. 228)
- Democracy and Justice Studies (p. 95)
- Design Arts (p. 103)
- Economics (p. 105)
- Engineering Technology (p. 110)
- English (p. 113)
- Environmental Policy and Planning (p. 118)
- Environmental Science (p. 121)
- First Nation Studies (p. 124)
- French and Francophone Studies (p. 126)
- Geography (p. 130)
- Geoscience (p. 131)
- German (p. 135)
- Global Studies (p. 139)
- History (p. 142)
- Human Biology (p. 144)
- Human Development (p. 155)
- Humanistic Studies (p. 158)
- Individual Major (p. 165)
- Information Sciences (p. 166)
- Integrative Leadership Studies (p. 173)
- Mathematics (p. 183)
- Music (p. 186)
- Philosophy (p. 203)
- Physics (p. 205)
- Political Science (p. 205)
- Psychology (p. 208)
- Public Administration (p. 214)

- Sociology (p. 222)
- Spanish and Latin American Studies (p. 223)
- Theatre (p. 227)
- Urban and Regional Studies (p. 233)
- Women's and Gender Studies (p. 235)

## Mathematics

Disciplinary Major or Minor (p. 60)  
(Bachelor of Science)

**Professors** – Gregory J. Davis, Tian-You Hu (chair)

**Associate Professors** – Atife Caglar, Woo Jeon

**Assistant Professor** – Megan Olson Hunt, Tetyana Malysheva

**Lecturers** – Theresa E. Adsit, Mary Guy, James Meyer

The Mathematics discipline has programs of study in two emphasis areas: mathematics and statistics. A student who elects a disciplinary major in Mathematics must choose an area of emphasis from one of these two programs of study.

Students choosing the emphasis in mathematics will focus their studies in a discipline which has been an important part of our intellectual heritage for centuries. Students select this area of emphasis if they are interested in mathematics for its own sake (pure mathematics) or as a tool for analyzing and solving real-world problems (applied mathematics). Graduates may use their skills in many careers, including fields such as secondary education and engineering. Other typical areas of employment traditional for mathematicians are those requiring physics. Today, mathematical techniques are required in social, industrial, and management realms as well.

The emphasis in statistics provides applied courses in experimental design, multivariate statistical analysis, and applied regression analysis. Students also gain an extensive background in statistical computing. Students who wish to enter actuarial professions may prepare for the first two actuarial examinations by completing the calculus sequence, linear algebra sequence, and statistical theory sequence. Students who concentrate studies in statistics may find employment in business, industry, and government, as well as pursue further professional training in graduate school.

### Program Entrance Requirements

The University of Wisconsin System placement examination in mathematics is used to advise entering freshmen about the level at which they should enter university courses. In rare cases, a student who has been accelerated and has mastery of calculus may, with advice of faculty, enter MATH 203 Calculus and Analytic Geometry II. Upon earning a "C" or better in MATH 203, an additional four credits are granted for MATH 202 Calculus and Analytic Geometry I.

Credits for calculus at UW-Green Bay may also be awarded for satisfactory performance on an AP exam. More details are available at <http://www.uwgb.edu/oira/cfpl/ap/>.

Retroactive credit for MATH 202 is not awarded to students who transfer to UW-Green Bay and have completed coursework deemed to be equivalent to MATH 203. If the student completes Math 209 or 305 at UW-Green Bay, they may submit an approved Retroactive Credit Form to the Registrar's Office to be awarded credit for MATH 202 only.

Mathematics majors must choose an interdisciplinary minor. Examples are Environmental Science or Business Administration.

Students seeking information on teacher certification should contact the Education Office.

### This disciplinary major also requires:

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- Mathematics Emphasis (p. 184)
- Statistics Emphasis (p. 184)

### This disciplinary minor also requires:

Completion of an interdisciplinary major (p. 58)

Completion of one of the following area of emphasis:

- Mathematics Emphasis (p. 185)
- Statistics Emphasis (p. 185)

## Mathematics Major

### This disciplinary major also requires:

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- Mathematics Emphasis (p. 184)
- Statistics Emphasis (p. 184)

## Mathematics Emphasis

### This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

<b>Supporting Courses</b>		16
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		29
MATH 305	Ordinary Differential Equations	
MATH 314	Proofs in Number Theory and Topology	
MATH 320	Linear Algebra I	
MATH 321	Linear Algebra II	
MATH 323	Analysis I	
MATH 324	Analysis II	
MATH 328	Introduction to Algebraic Structures	
MATH 385	Foundations of Geometry	
<b>Elective Courses (choose one of the following):</b>		
MATH 360	Theory of Probability	
MATH 361	Mathematical Statistics	
MATH 410	Complex Analysis	
MATH 425	Dynamical Systems	
MATH 492	Special Topics in Mathematics	
Total Credits		45

## Statistics Emphasis

### This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (p. 58)

<b>Supporting Courses</b>		16
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		31
MATH 314	Proofs in Number Theory and Topology	
MATH 320	Linear Algebra I	
MATH 321	Linear Algebra II	
MATH 323	Analysis I	
MATH 324	Analysis II	
MATH 360	Theory of Probability	
MATH 361	Mathematical Statistics	



MATH 467	Applied Regression Analysis	
<b>Elective Courses (choose one of the following):</b>		
MATH 430	Design of Experiments	
MATH 431	Multivariate Statistical Analysis	
MATH 492	Special Topics in Mathematics	
Total Credits		47

## Mathematics Minor

This disciplinary minor also requires:

Completion of an interdisciplinary major (p. 58)

Completion of one of the following areas of emphasis:

- Mathematics Emphasis (p. 185)
- Statistics Emphasis (p. 185)

## Mathematics Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major (p. 58)

<b>Supporting Courses</b>		12
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		12
MATH 320	Linear Algebra I	
<b>Elective Courses (choose 9 credits of the following):</b>		
MATH 305	Ordinary Differential Equations	
MATH 314	Proofs in Number Theory and Topology	
MATH 321	Linear Algebra II	
MATH 323	Analysis I	
MATH 324	Analysis II	
MATH 328	Introduction to Algebraic Structures	
MATH 360	Theory of Probability	
MATH 361	Mathematical Statistics	
MATH 385	Foundations of Geometry	
MATH 410	Complex Analysis	
MATH 425	Dynamical Systems	
MATH 492	Special Topics in Mathematics	
Total Credits		24

## Statistics Emphasis

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major (p. 58)

<b>Supporting Courses</b>		12
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		12
MATH 320	Linear Algebra I	
<b>Elective Courses (choose three of the following):</b>		

MATH 360	Theory of Probability
MATH 361	Mathematical Statistics
MATH 430	Design of Experiments
MATH 431	Multivariate Statistical Analysis
MATH 467	Applied Regression Analysis

Total Credits

24

## Music

Disciplinary Major or Minor (p. 60)  
(Bachelor of Music or Bachelor of Arts)

**Professors** – Cheryl Grosso (chair), Sarah Meredith Livingston

**Associate Professors** – Kevin Collins, Adam Gaines, Eric Hansen, Michelle McQuade Dewhirst, Randall Meder, John Salerno, Courtney Sherman

**Assistant Professors** – Michael Rector

**Adviser** – Cheryl Grosso

UW-Green Bay Music students benefit from the University's beautiful Weidner Center for the Performing Arts, one of Wisconsin's premiere performance venues with an acoustically superb environment. Most Music Department concerts and recitals are held in one of the Weidner Center's three performance spaces. Students have multiple opportunities to attend master classes, performances, and lectures by renowned guest artists who visit our campus each year. Practice rooms are ample and have acoustic technology and multi-media technology exists in all teaching spaces. The keyboard/technology lab and recording studio are available to music students interested in recording, composition, arranging, production, and music technology.

The Music program offers two degrees, a professional degree – the Bachelor of Music and a liberal arts degree – the Bachelor of Arts.

The **Bachelor of Music** degree prepares students to enter the music profession directly, or to pursue more advanced study in graduate school.

- The **Bachelor of Music in Music Education** prepares students to enter the teaching profession, with Wisconsin DPI licensure available in Pre-K-12 Choral & General Music, and Pre-K-12 Instrumental & General Music. Students seeking the Music Education degree must demonstrate a high level of musical and academic proficiency, and perform a half recital during the third year of applied study. Music Education majors select Education as a minor, leading to licensure in their chosen area(s), upon completion of student teaching. See more information regarding Education Program (p. 107) requirements.
- The **Bachelor of Music in Performance** is a professional degree that prepares students for a career in music performance or graduate study of their instrument or voice. Students are admitted to the performance program after their fourth semester of applied study and must demonstrate a very high degree of musical proficiency and academic ability in music. Performance majors receive intensive applied instruction at the upper levels and perform full recitals at the completion of each of these levels.

The **Bachelor of Arts** degree offers the study of music in a liberal arts framework. It is intended for students who wish to major in Music as a part of a liberal arts program. Students in this track may tailor their educational experience to their individual interests by selecting from three distinct emphases: Jazz Studies, Composition, and Individualized Studies. The degree helps students prepare for a broad array of career options and may also be appropriate for those intending to pursue advanced study in music. The B.A. in Music affords students the opportunity to pursue a second field of expertise within the credits required for graduation.

Students are admitted to the Music major and minor by audition. Majors take a sequence of theory, history, and skills courses to achieve a comprehensive intellectual understanding of music along with the development of solo and ensemble performance abilities. Individual applied instruction is available in voice, flute, oboe, clarinet, saxophone, bassoon, horn, trumpet, trombone, euphonium, tuba, percussion, piano, organ, guitar, string bass, and electric bass. Music majors may also pursue applied instruction in composition, arranging, musical theater, improvisation.

Music majors choose an interdisciplinary minor in consultation with their faculty adviser. Music Education majors select Education as a minor, leading to licensure in their chosen area(s). Many Music majors choose an Arts Management minor or second major. Other students select from interdisciplinary minors that support various career aspirations and/or intellectual interests, such as Business Administration or Human Development.

It is also possible to choose Music as a disciplinary minor, which provides breadth to an interdisciplinary major. The Music minor may be especially appropriate for students who have an interest in studying music, but who intend to pursue careers in other fields.

All degree programs include large and chamber ensemble requirements. Performance opportunities in major ensembles include Wind Symphony, Symphonic Band, Chorale, and Concert Choir. Minor ensembles include Jazz Combo, Flute Ensemble, Woodwind Ensemble, Saxophone Ensemble, Brass Ensemble, Jazz Ensembles, Contemporary Percussion Ensemble, Hand Drumming, New Music Ensemble, Vocal Jazz Ensemble, Opera/Musical Theatre Workshop, and Chamber Singers. Pep Band may be taken for credit but does not fill major or chamber ensemble requirements or Fine Arts General Education requirements.

The University of Wisconsin-Green Bay is accredited by the National Association of Schools of Music.

## Bachelor of Music

- Music Education: Pre-K-12 Instrumental and General Music (p. 190)
- Music Education: Pre-K-12 Choral and General Music (p. 189)
- Instrumental Performance (p. 187)
- Vocal Performance (p. 192)

All students seeking the Bachelor of Arts with a major in Music must complete a liberal arts requirement consisting of a minimum of 66 credits in addition to credits earned in Music courses. These 66 credits may include credits earned to fulfill requirements in an interdisciplinary major or minor and general education.

- Composition (p. 193)
- Individual Studies (p. 196)
- Jazz Studies (p. 197)
- Music Minor (p. 199)

## Bachelor of Music

### Areas of Emphasis

- Music Education: Pre-K-12 Instrumental and General Music (p. 190)
- Music Education: Pre-K-12 Choral and General Music (p. 189)
- Instrumental Performance (p. 187)
- Vocal Performance (p. 192)

## Instrumental Performance

### Supporting Courses

28-31

MUSIC 102	Concert Attendance (8 semesters required)
MUSIC 115	Ear Training and Sight Singing I
MUSIC 116	Ear Training and Sight Singing II
MUSIC 151	Music Theory I
MUSIC 152	Music Theory II
MUSIC 215	Advanced Sight Singing and Ear Training
MUSIC 253	Music Theory III
MUSIC 254	Music Theory IV

### Keyboard Requirement:

MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV Advanced Keyboard Musicianship
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### First Semester Applied (2 credits):

MUS APP 101 or MUS APP 127	Keyboard Lessons 1 Instrumental Lessons 1
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### Second Semester Applied (2 credits):

MUS APP 102 or MUS APP 128	Keyboard Lessons 2 Instrumental Lessons 2
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### Third Semester Applied (2 credits):

MUS APP 201 or MUS APP 227	Keyboard Lessons 3 Instrumental Lessons 3
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### Fourth Semester Applied (2 credits):

MUS APP 202 or MUS APP 228	Keyboard Lessons 4 Instrumental Lessons 4
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### Major Ensemble (complete 4 credits):

MUS ENS 241	Concert Band
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**Upper-Level Courses**

MUS APP 396	Junior Recital
MUS APP 496	Senior Recital
MUSIC 333	Basic Conducting
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 423	Seminar in Music Literature
MUSIC 453	Materials and Design
<b>Fifth Semester Applied (3 credits):</b>	
MUS APP 301	Keyboard Lessons 5
or MUS APP 327	Instrumental Lessons 5
<b>Sixth Semester Applied (3 credits):</b> <small>Must perform full recital</small>	
MUS APP 302	Keyboard Lessons 6
or MUS APP 328	Instrumental Lessons 6
<b>Seventh Semester Applied (3 credits):</b>	
MUS APP 401	Keyboard Lessons 7
or MUS APP 427	Instrumental Lessons 7
<b>Eighth Semester Applied (3 credits):</b> <small>Must perform full recital</small>	
MUS APP 402	Keyboard Lessons 8
or MUS APP 428	Instrumental Lessons 8
<b>Major Ensemble (complete 4 credits):</b>	
MUS ENS 441	Concert Band
<b>Minor Ensemble (complete 2 credits):</b>	
MUS ENS 142	Jazz Combo
MUS ENS 143	Jazz Ensemble
MUS ENS 144	Woodwind Ensemble
MUS ENS 145	Brass Ensemble
MUS ENS 146	Contemporary Percussion Ensemble
MUS ENS 150	New Music Ensemble
MUS ENS 188	Hand Drumming Ensemble
MUS ENS 313	Keyboard Accompanying
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 388	Hand Drumming Ensemble
<b>Music Electives (choose 6 credits):</b>	
MUSIC 301	Music Technology Systems
MUSIC 311	Jazz Improvisation
MUSIC 319	Choral/Vocal Techniques
MUSIC 341	Woodwind Techniques
MUSIC 342	Brass Techniques
MUSIC 343	String Techniques
MUSIC 344	Choral Conducting and Rehearsal Techniques
MUSIC 345	Percussion Techniques
MUSIC 348	Instrumental Conducting and Rehearsal Techniques
MUSIC 411	Advanced Composition
MUSIC 417	Jazz Arranging

MUSIC 423	Seminar in Music Literature (may be repeated with different topic)	
Total Credits		73-76

## Music Education: Pre-K-12 Choral and General Music

### Supporting Courses 31-34

MUSIC 102	Concert Attendance (8 semesters required)
MUSIC 103	Music Technology Tools
MUSIC 115	Ear Training and Sight Singing I
MUSIC 116	Ear Training and Sight Singing II
MUSIC 151	Music Theory I
MUSIC 152	Music Theory II
MUSIC 215	Advanced Sight Singing and Ear Training
MUSIC 253	Music Theory III
MUSIC 254	Music Theory IV
MUS APP 69	Elementary Guitar
<b>Keyboard Requirement:</b>	
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV
or MUS APP 13	Advanced Keyboard Musicianship

### Applied Lessons (8 credits required):

MUS APP 105	Voice Lessons 1
MUS APP 106	Voice Lessons 2
MUS APP 205	Voice Lessons 3
MUS APP 206	Voice Lessons 4

### Major Ensemble (complete 4 credits):

MUS ENS 261	Concert Choir
MUS ENS 262	Chorale

### Improvisation-choose one:

MUSIC 220	Introduction to Jazz Theory and Improvisation
MUS ENS 142	Jazz Combo
MUS ENS 150	New Music Ensemble
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 188	Hand Drumming Ensemble
MUS ENS 342	Jazz Combo
MUS ENS 350	New Music Ensemble
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 388	Hand Drumming Ensemble

### Upper-Level Courses 38

EDUC 317	Teaching Music in the Middle and Secondary Schools
EDUC 334	Teaching General Music in the Elementary and Middle Schools
MUS APP 396	Junior Recital
MUSIC 305	Diction for Singers I
MUSIC 306	Diction for Singers II
MUSIC 333	Basic Conducting
MUSIC 344	Choral Conducting and Rehearsal Techniques
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 362	World Music
<b>Choral / Vocal Techniques (3 credits required):</b>	
MUSIC 319	Choral/Vocal Techniques

**Applied Lessons (4 credits required):**

MUS APP 305	Voice Lessons 5
MUS APP 306	Voice Lessons 6 <sup>Must Perform Half Recital</sup>

**Minor Ensemble (complete 2 credits):**

MUS ENS 142	Jazz Combo
MUS ENS 143	Jazz Ensemble
MUS ENS 144	Woodwind Ensemble
MUS ENS 145	Brass Ensemble
MUS ENS 146	Contemporary Percussion Ensemble
MUS ENS 150	New Music Ensemble
MUS ENS 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera Studio
MUS ENS 188	Hand Drumming Ensemble
MUS ENS 313	Keyboard Accompanying
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Studio
MUS ENS 388	Hand Drumming Ensemble

**Major Ensemble (complete 2 credits):**

MUS ENS 461	Concert Choir
MUS ENS 462	Chorale

**Upper-Level History/Theory Elective**

MUSIC 423 or MUSIC 453	Seminar in Music Literature Materials and Design
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Total Credits

69-72

## Music Education: Pre-K-12 Instrumental and General Music

**Supporting Courses**

32-35

MUSIC 102	Concert Attendance (8 semesters required)
MUSIC 103	Music Technology Tools
MUSIC 115	Ear Training and Sight Singing I
MUSIC 116	Ear Training and Sight Singing II
MUSIC 151	Music Theory I
MUSIC 152	Music Theory II
MUSIC 215	Advanced Sight Singing and Ear Training
MUSIC 253	Music Theory III
MUSIC 254	Music Theory IV
MUS APP 45	Elementary Voice I
MUS APP 69	Elementary Guitar

**Keyboard Requirement:**

MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV Advanced Keyboard Musicianship
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**First Semester Applied (complete 2 credits):**

MUS APP 101	Keyboard Lessons 1
or MUS APP 127	Instrumental Lessons 1

**Second Semester Applied (complete 2 credits):**

MUS APP 102	Keyboard Lessons 2
or MUS APP 128	Instrumental Lessons 2

**Third Semester Applied (complete 2 credits):**

MUS APP 201	Keyboard Lessons 3
or MUS APP 227	Instrumental Lessons 3

**Fourth Semester Applied (complete 2 credits):**

MUS APP 202	Keyboard Lessons 4
or MUS APP 228	Instrumental Lessons 4

**Major Ensemble (complete a total of 4 credits):**

MUS ENS 241	Concert Band
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**Improvisation-choose one:**

MUSIC 220	Introduction to Jazz Theory and Improvisation
MUS ENS 142	Jazz Combo
MUS ENS 150	New Music Ensemble
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 188	Hand Drumming Ensemble
MUS ENS 342	Jazz Combo
MUS ENS 350	New Music Ensemble
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 388	Hand Drumming Ensemble

**Upper-Level Courses**

36

EDUC 317	Teaching Music in the Middle and Secondary Schools
EDUC 334	Teaching General Music in the Elementary and Middle Schools
MUS APP 396	Junior Recital
MUSIC 333	Basic Conducting
MUSIC 341	Woodwind Techniques
MUSIC 342	Brass Techniques
MUSIC 343	String Techniques
MUSIC 345	Percussion Techniques
MUSIC 348	Instrumental Conducting and Rehearsal Techniques
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 362	World Music

**Minor Ensemble (complete 2 credits):**

MUS ENS 142	Jazz Combo
MUS ENS 143	Jazz Ensemble
MUS ENS 144	Woodwind Ensemble
MUS ENS 145	Brass Ensemble
MUS ENS 146	Contemporary Percussion Ensemble
MUS ENS 150	New Music Ensemble
MUS ENS 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera Studio
MUS ENS 188	Hand Drumming Ensemble
MUS ENS 313	Keyboard Accompanying
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble

MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Studio
MUS ENS 388	Hand Drumming Ensemble
<b>Major Ensemble (complete 2 credits):</b>	
MUS ENS 441	Concert Band
<b>Fifth Semester Applied (complete 2 credits):</b>	
MUS APP 301	Keyboard Lessons 5
or MUS APP 327	Instrumental Lessons 5
<b>Sixth Semester Applied (complete 2 credits):</b> <small>Must perform half recital</small>	
MUS APP 302	Keyboard Lessons 6
or MUS APP 328	Instrumental Lessons 6
<b>Upper-Level History Theory Elective</b>	
MUSIC 423	Seminar in Music Literature
or MUSIC 453	Materials and Design

Total Credits

68-71

## Vocal Performance

### Supporting Courses

28

MUSIC 102	Concert Attendance (8 semesters required)
MUSIC 115	Ear Training and Sight Singing I
MUSIC 116	Ear Training and Sight Singing II
MUSIC 151	Music Theory I
MUSIC 152	Music Theory II
MUSIC 215	Advanced Sight Singing and Ear Training
MUSIC 253	Music Theory III
MUSIC 254	Music Theory IV
Keyboard Requirement:	
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV Advanced Keyboard Musicianship

### Applied Lessons (8 credits required):

MUS APP 105	Voice Lessons 1
MUS APP 106	Voice Lessons 2
MUS APP 205	Voice Lessons 3
MUS APP 206	Voice Lessons 4

### Major Ensemble (complete 4 credits):

MUS ENS 261	Concert Choir
MUS ENS 262	Chorale

### Foreign Language Requirement

Vocal Performance student must complete 3 semesters of any combination of Italian, French and German language courses

### Upper-Level Courses

47

MUS APP 396	Junior Recital
MUS APP 496	Senior Recital
MUSIC 305	Diction for Singers I
MUSIC 306	Diction for Singers II
MUSIC 319	Choral/Vocal Techniques (Vocal Pedagogy)



MUSIC 319	Choral/Vocal Techniques (Choral Arranging)
MUSIC 333	Basic Conducting
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 423	Seminar in Music Literature
MUSIC 453	Materials and Design
<b>Fifth Semester Applied (3 credits):</b>	
MUS APP 305	Voice Lessons 5
<b>Sixth Semester Applied (3 credits):</b>	
MUS APP 306	Voice Lessons 6 <sup>Must perform full recital</sup>
<b>Seventh Semester Applied (3 credits):</b>	
MUS APP 405	Voice Lessons 7
<b>Eighth Semester Applied (3 credits):</b>	
MUS APP 406	Voice Lessons 8 <sup>Must perform full recital</sup>
<b>Major Ensemble (complete 4 credits):</b>	
MUS ENS 461	Concert Choir
MUS ENS 462	Chorale
<b>Minor Ensemble (2 credits):</b>	
MUS ENS 150	New Music Ensemble
MUS ENS 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera Studio
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 366	Opera Studio
<b>Music Electives (complete 2 credits):</b>	
MUSIC 301	Music Technology Systems
MUSIC 311	Jazz Improvisation
MUSIC 319	Choral/Vocal Techniques (if not required above)
MUSIC 344	Choral Conducting and Rehearsal Techniques
MUSIC 348	Instrumental Conducting and Rehearsal Techniques
MUSIC 411	Advanced Composition
MUSIC 417	Jazz Arranging
MUSIC 423	Seminar in Music Literature (may be repeated with a different topic)

Total Credits

75

## Bachelor of Arts

All students seeking the Bachelor of Arts with a major in Music must complete a liberal arts requirement consisting of a minimum of 66 credits in addition to credits earned in Music courses. These 66 credits may include credits earned to fulfill requirements in an interdisciplinary major or minor and general education.

- Composition (p. 193)
- Individual Studies (p. 196)
- Jazz Studies (p. 197)

## Composition

This disciplinary major also requires:

- Completion of an interdisciplinary major or minor (p. 58)
- All students seeking the Bachelor of Arts with a major in Music must complete a liberal arts requirement consisting of a minimum of 66 credits in addition to credits earned in Music courses. These 66 credits may include credits earned to fulfill requirements in an interdisciplinary major or minor and general education.

**Supporting Courses**

29-32

MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV Advanced Keyboard Musicianship
MUSIC 102	Concert Attendance (6 semesters required)
MUSIC 103	Music Technology Tools
MUSIC 115	Ear Training and Sight Singing I
MUSIC 116	Ear Training and Sight Singing II
MUSIC 151	Music Theory I
MUSIC 152	Music Theory II
MUSIC 209	Applied Composition (Must take total of 4 credits)
MUSIC 215	Advanced Sight Singing and Ear Training
MUSIC 253	Music Theory III
MUSIC 254	Music Theory IV
<b>First Semester Applied (1 credit):</b>	
MUS APP 101	Keyboard Lessons 1
MUS APP 105	Voice Lessons 1
MUS APP 127	Instrumental Lessons 1
<b>Second Semester Applied (1 credit):</b>	
MUS APP 102	Keyboard Lessons 2
MUS APP 106	Voice Lessons 2
MUS APP 128	Instrumental Lessons 2
<b>Third Semester Applied (1 credit):</b>	
MUS APP 201	Keyboard Lessons 3
MUS APP 205	Voice Lessons 3
MUS APP 227	Instrumental Lessons 3
<b>Fourth Semester Applied (1 credit):</b>	
MUS APP 202	Keyboard Lessons 4
MUS APP 206	Voice Lessons 4
MUS APP 228	Instrumental Lessons 4
<b>Major Ensemble Requirement (complete 4 credits):</b>	
MUS ENS 241	Concert Band
MUS ENS 261	Concert Choir
MUS ENS 262	Chorale
<b>Upper-Level Courses</b>	
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 453	Materials and Design
MUSIC 480	Capstone Project
MUSIC 411	Advanced Composition (4 credits required)
MUS ENS 350	New Music Ensemble
<b>Upper-Level Minor Ensemble (1 credit):</b>	
MUS ENS 313	Keyboard Accompanying
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble

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MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Studio
MUS ENS 388	Hand Drumming Ensemble
<b>Upper-Level Electives (6 credits required):</b>	
MUS APP 301	Keyboard Lessons 5
MUS APP 302	Keyboard Lessons 6
MUS APP 305	Voice Lessons 5
MUS APP 306	Voice Lessons 6
MUS APP 327	Instrumental Lessons 5
MUS APP 328	Instrumental Lessons 6
MUS APP 401	Keyboard Lessons 7
MUS APP 402	Keyboard Lessons 8
MUS APP 405	Voice Lessons 7
MUS APP 406	Voice Lessons 8
MUS APP 427	Instrumental Lessons 7
MUS APP 428	Instrumental Lessons 8
MUS APP 497	Internship
MUS APP 498	Independent Study
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Studio
MUS ENS 388	Hand Drumming Ensemble
MUS ENS 441	Concert Band
MUS ENS 461	Concert Choir
MUS ENS 462	Chorale
MUSIC 305	Diction for Singers I
MUSIC 306	Diction for Singers II
MUSIC 333	Basic Conducting
MUSIC 341	Woodwind Techniques
MUSIC 342	Brass Techniques
MUSIC 343	String Techniques
MUSIC 344	Choral Conducting and Rehearsal Techniques
MUSIC 345	Percussion Techniques
MUSIC 348	Instrumental Conducting and Rehearsal Techniques
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 364	Musical Theatre History
MUSIC 411	Advanced Composition
MUSIC 417	Jazz Arranging
MUSIC 423	Seminar in Music Literature
MUSIC 498	Independent Study

## Individual Studies

### This disciplinary major also requires:

- Completion of an interdisciplinary major or minor (p. 58)

### Supporting Courses

24-25

#### Keyboard Requirement:

MUS APP 11 & MUS APP 21 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II Advanced Keyboard Musicianship
MUSIC 102	Concert Attendance (6 semesters required)
MUSIC 103	Music Technology Tools
MUSIC 115	Ear Training and Sight Singing I
MUSIC 116	Ear Training and Sight Singing II
MUSIC 151	Music Theory I
MUSIC 152	Music Theory II
MUSIC 253	Music Theory III
MUSIC 254	Music Theory IV

#### First Semester Applied (1 credit):

MUS APP 101	Keyboard Lessons 1
MUS APP 105	Voice Lessons 1
MUS APP 127	Instrumental Lessons 1

#### Second Semester Applied (1 credit):

MUS APP 102	Keyboard Lessons 2
MUS APP 106	Voice Lessons 2
MUS APP 128	Instrumental Lessons 2

#### Third Semester Applied (1 credit):

MUS APP 201	Keyboard Lessons 3
MUS APP 205	Voice Lessons 3
MUS APP 227	Instrumental Lessons 3

#### Fourth Semester Applied (1 credit):

MUS APP 202	Keyboard Lessons 4
MUS APP 206	Voice Lessons 4
MUS APP 228	Instrumental Lessons 4

#### Major Ensemble Requirement (complete 4 credits):

MUS ENS 241	Concert Band
MUS ENS 261	Concert Choir
MUS ENS 262	Chorale

### Upper-Level Courses

26

MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 480	Capstone Project

#### Music Theory and History (3 credits):

MUSIC 423 or MUSIC 453	Seminar in Music Literature Materials and Design
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#### Minor Ensemble (complete 2 credits):

MUS ENS 313	Keyboard Accompanying
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble

MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Studio
MUS ENS 388	Hand Drumming Ensemble
<b>Upper-Level Electives (12 credits):</b>	
MUS APP 301	Keyboard Lessons 5
MUS APP 302	Keyboard Lessons 6
MUS APP 305	Voice Lessons 5
MUS APP 306	Voice Lessons 6
MUS APP 327	Instrumental Lessons 5
MUS APP 328	Instrumental Lessons 6
MUS APP 401	Keyboard Lessons 7
MUS APP 402	Keyboard Lessons 8
MUS APP 405	Voice Lessons 7
MUS APP 406	Voice Lessons 8
MUS APP 427	Instrumental Lessons 7
MUS APP 428	Instrumental Lessons 8
MUS APP 497	Internship
MUS APP 498	Independent Study
MUS ENS 441	Concert Band
MUS ENS 461	Concert Choir
MUS ENS 462	Chorale
MUSIC 301	Music Technology Systems
MUSIC 305	Diction for Singers I
MUSIC 306	Diction for Singers II
MUSIC 319	Choral/Vocal Techniques
MUSIC 333	Basic Conducting
MUSIC 341	Woodwind Techniques
MUSIC 342	Brass Techniques
MUSIC 343	String Techniques
MUSIC 344	Choral Conducting and Rehearsal Techniques
MUSIC 345	Percussion Techniques
MUSIC 348	Instrumental Conducting and Rehearsal Techniques
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 364	Musical Theatre History
MUSIC 411	Advanced Composition
MUSIC 417	Jazz Arranging
MUSIC 423	Seminar in Music Literature
MUSIC 497	Internship
MUSIC 498	Independent Study
MUSIC 499	Travel Course

Total Credits

50-51

## Jazz Studies

This disciplinary major also requires:

- Completion of an interdisciplinary major or minor (p. 58)

**Supporting Courses**

30-31

<b>Keyboard Requirement:</b>	
MUS APP 11 & MUS APP 21 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II Advanced Keyboard Musicianship
MUS ENS 142	Jazz Combo
MUSIC 102	Concert Attendance (6 semesters required)
MUSIC 103	Music Technology Tools
MUSIC 115	Ear Training and Sight Singing I
MUSIC 116	Ear Training and Sight Singing II
MUSIC 151	Music Theory I
MUSIC 152	Music Theory II
MUSIC 220	Introduction to Jazz Theory and Improvisation
MUSIC 242	Jazz and Pop Literature
MUSIC 253	Music Theory III
MUSIC 254	Music Theory IV
<b>First Semester Applied (1 credit):</b>	
MUS APP 101	Keyboard Lessons 1
MUS APP 105	Voice Lessons 1
MUS APP 127	Instrumental Lessons 1
<b>Second Semester Applied (1 credit):</b>	
MUS APP 102	Keyboard Lessons 2
MUS APP 106	Voice Lessons 2
MUS APP 128	Instrumental Lessons 2
<b>Third Semester Applied (1 credit):</b>	
MUS APP 201	Keyboard Lessons 3
MUS APP 205	Voice Lessons 3
MUS APP 227	Instrumental Lessons 3
<b>Fourth Semester Applied (1 credit):</b>	
MUS APP 202	Keyboard Lessons 4
MUS APP 206	Voice Lessons 4
MUS APP 228	Instrumental Lessons 4
<b>Major Ensemble Requirement (complete 4 credits):</b>	
MUS ENS 241	Concert Band
MUS ENS 261	Concert Choir
MUS ENS 262	Chorale
<b>Jazz Ensemble (1 credit):</b>	
MUS ENS 143	Jazz Ensemble
MUS ENS 165	Vocal Jazz Ensemble
<b>Upper-Level Courses</b>	
MUSIC 311	Jazz Improvisation
MUSIC 354	Music History II
MUSIC 363	Jazz History
MUSIC 417	Jazz Arranging
MUSIC 453	Materials and Design
MUSIC 480	Capstone Project
<b>Major Ensemble (complete 2 credits):</b>	
MUS ENS 441	Concert Band
MUS ENS 461	Concert Choir
MUS ENS 462	Chorale
<b>Jazz Ensemble (2 credits):</b>	
MUS ENS 343	Jazz Ensemble

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MUS ENS 365	Vocal Jazz Ensemble
<b>Music Electives (5 credits):</b>	
MUSIC 301	Music Technology Systems
MUSIC 311	Jazz Improvisation
MUSIC 362	World Music
MUSIC 364	Musical Theatre History
MUSIC 411	Advanced Composition
MUSIC 417	Jazz Arranging
MUS APP 301	Keyboard Lessons 5
MUS APP 302	Keyboard Lessons 6
MUS APP 305	Voice Lessons 5
MUS APP 306	Voice Lessons 6
MUS APP 327	Instrumental Lessons 5
MUS APP 328	Instrumental Lessons 6
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 365	Vocal Jazz Ensemble

Total Credits

55-56

## Music Minor

This disciplinary minor also requires:

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

18-19

MUSIC 102	Concert Attendance (4 semesters required)
MUSIC 115	Ear Training and Sight Singing I
MUSIC 116	Ear Training and Sight Singing II
MUSIC 121	Survey of Western Music
MUSIC 151	Music Theory I
MUSIC 152	Music Theory II

### Keyboard Requirement: Complete One Set

#### Set One

MUS APP 11	Keyboard Musicianship I
MUS APP 21	Keyboard Musicianship II

#### Set Two

MUS APP 13	Advanced Keyboard Musicianship
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### First Semester Applied (2 credits):

MUS APP 101	Keyboard Lessons 1
MUS APP 105	Voice Lessons 1
MUS APP 127	Instrumental Lessons 1

### Second Semester Applied (2 credits):

MUS APP 102	Keyboard Lessons 2
MUS APP 106	Voice Lessons 2
MUS APP 128	Instrumental Lessons 2

### Major Ensemble (2 credits):

MUS ENS 241	Concert Band
MUS ENS 261	Concert Choir
MUS ENS 262	Chorale

### Upper-Level Courses

6

#### Electives (choose from the following):<sup>1</sup>

MUSIC 301	Music Technology Systems
MUSIC 333	Basic Conducting

MUSIC 362	World Music
MUSIC 363	Jazz History
<b>Ensemble Courses (must choose a minimum of 1 credit):</b>	
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Studio
MUS ENS 388	Hand Drumming Ensemble
MUS ENS 441	Concert Band
MUS ENS 461	Concert Choir
MUS ENS 462	Chorale

Total Credits

24-25

<sup>1</sup> Students must complete a minimum of one credit of 300 or 400-level Ensemble Course

## Nursing

A Completion Program for Registered Nurses (p. 58)

Professional Program in Nursing  
(Bachelor of Science in Nursing)

**Professor** – Susan Gallagher-Lepak (chair)

**Associate Professors** – T. Heather Herdman, Sylvia Kubsch, Janet Reilly, Christine Vandenhouten

**Assistant Professor** – Brenda Tyczkowski

**Lecturers** – Becky Hovarter

**Advisers** – Sharon Gajeski, Jennifer Schwahn, Cindy VanDyke

**Student Services Specialist** – Ruth Pearson

**Director of Student Outreach** – Jan Malchow

**Student Outreach Specialist** – Jason Mathwig

## Overview of the Program in Nursing

The Professional Program in Nursing at the University of Wisconsin-Green Bay provides an opportunity for Registered Nurses (RNs) holding an associate degree or diploma in nursing to earn a Bachelor of Science Degree in Nursing (BSN). This accredited, high quality program is designed to be nurse friendly, flexible, and meet the needs of adult learners and working registered nurses. Prior learning is acknowledged through liberal articulation and transfer policies.

The program is built upon the foundation of the associate degree or diploma in nursing and includes general education courses, courses supportive of nursing, and upper-level Nursing major courses. The program consists of 120 credits for the BSN degree. The RN transfers at least 60 credits through articulation agreements. Additional credits completed at other universities, colleges, or community colleges may also transfer. The remaining UW-Green Bay requirements for graduation include a college-level chemistry course, 30 credits of general education and support courses for the Nursing major, and 30 credits of upper-level Nursing courses.

Based upon professional standards and what employers say they value most, the Nursing curriculum targets:

- Professional nursing roles and nursing science development
- Practice based on research, standards, and theory
- Strong communication, critical thinking, and leadership skills
- Autonomous therapeutic nursing interventions
- Culturally congruent and ethically sound nursing care
- Responsibility for being a change agent and lifelong learner

**Students in the Nursing major must have:**



- Graduated from an associate degree in nursing program or from a diploma program in nursing;
- Grade point average of 2.5 on a 4.0 scale (or equivalent) on post-secondary coursework, or satisfactory completion of a diploma program;
- Current, unencumbered RN license in any state; and
- Consultation with a Nursing program adviser.

## Three Tracks, One Destination

The program is offered in three tracks:

- **Campus Track** (face-to-face courses);
- **BSN@HOME Track** (via the internet for nurses residing in the state of Wisconsin);
- **BSN-LINC/National Track** (via the internet for nurses residing outside the state of Wisconsin)

Though courses are delivered through different modalities, the program requirements and outcomes are the same for all three tracks.

The **Campus Track** is designed for RNs who reside within traveling distance of UW-Green Bay. Limited sections are also available in Marinette and Rhinelander. Nursing courses are offered in campus classrooms. Courses are “block scheduled” (i.e., each course meets once per week or every other week). General education and support courses can be completed on campus, through UW-Green Bay Adult Degree Programs (online or independent study/Saturday schedule), through UW Colleges (online or on campus), or through UW Independent Learning correspondence courses.

The internet-based **BSN@HOME Track**, for RNs who are Wisconsin residents, is available through the combined resources of the nursing programs at the UW campuses in Green Bay, Eau Claire, Madison, Milwaukee, Oshkosh, and Stevens Point. The BSN is awarded by the home institution, in this case UW-Green Bay. All general education and support courses are offered via the internet through UW-Green Bay Adult Degree Programs and the UW Colleges online. BSN@HOME Track students are welcome to take courses on campus.

The internet-based **BSN-LINC/National Track** is designed for RNs who reside outside the state of Wisconsin. Students must have a current RN license from any state in the U.S. for eligibility. Practicum is arranged in the student’s home state. All courses are available via the internet.

Students may study abroad or at other campuses in the United States through UW-Green Bay’s participation in international exchange programs, through National Student Exchange, or through consultation with the Nursing adviser. For more information, contact the Office of International Education (920) 465-2190.

*Note: New freshmen and other newcomers to nursing studies who are seeking an all-inclusive path to the Registered Nurse credential and the bachelor’s degree should turn to the “Nursing: Preprofessional” information under the Preprofessional Programs of Study.*

## For Further Information and Application Materials

If you are interested in furthering your education, marketability, and job satisfaction, visit our website at <http://www.uwgb.edu/nursing/> and see what we have to offer. We are also happy to answer your questions through phone or e-mail.

### Campus Track:

Contact us at [nursing@uwgb.edu](mailto:nursing@uwgb.edu)

920-465-2826 or

Toll-free 888-NSG-UWGB (888-674-8942)

To apply online: <https://apply.wisconsin.edu/>

### Internet-based BSN@HOME Track for Wisconsin residents:

Contact us at [nursing@uwgb.edu](mailto:nursing@uwgb.edu)

920-465-2826 or

Toll-free 888-674-8942

Visit the BSN@HOME website: <http://www.bsnathome.com>

To apply online: <https://apply.wisconsin.edu/>

### Internet-based BSN-LINC/National Track for RNs outside the state of Wisconsin:

Contact us at [bsnlinc@learn.uwsa.edu](mailto:bsnlinc@learn.uwsa.edu)

Toll-free 877-656-1483

Visit the BSN-LINC National website: <http://bsnlinc.wisconsin.edu/>

To apply online: <http://bsnlinc.wisconsin.edu/howtoapply.asp>

- Nursing Major (p. 201)

## Nursing Major

### General Education

Fine Arts

Humanities	
Global Culture	
Ethnic Studies Perspective	
Social Sciences <sup>1</sup>	
Natural Sciences <sup>1</sup>	
<b>Nursing Support</b>	<b>12</b>
Written Communication	
Therapeutic Nursing Intervention Electives	
Statistics	
Speech <sup>1</sup>	
Chemistry <sup>2</sup>	
Critical Thinking Elective <sup>3</sup>	
<b>Lower-Level Nursing <sup>1</sup></b>	
<b>Upper-Level Nursing</b>	<b>30</b>
<b>Required</b>	
NURSING 446 or NURSING 487	Research and Evidence-Based Practice Evidence-Based Nursing Practice
NURSING 407	Foundations of Professional Nursing Practice
NURSING 441	Chronic Care Management
NURSING 447	Leadership and Management
NURSING 453	Information Management and Healthcare Technology
NURSING 454	Community Health Nursing
NURSING 455	Community Health Nursing Practicum
NURSING 490	Synthesis for Nursing Practice
<b>Complete 6 credits of NURSING 492, choose two different topics</b>	
NURSING 492	Special Topics in Nursing (Repeatable with different topics)
<b>Total Credits</b>	<b>60</b>

<sup>1</sup> Satisfied by articulation agreements/transfer credits.

<sup>2</sup> Chemistry is required beginning September 1, 2007, if no previous college-level chemistry.

<sup>3</sup> Critical thinking elective can be satisfied by certain humanities courses such as philosophy, or taken as a separate course.

### For Further Information and Application Materials

If you are interested in furthering your education, marketability, and job satisfaction, visit our website at <http://www.uwgb.edu/nursing/> and see what we have to offer. We are also happy to answer your questions through phone or e-mail.

#### Campus Track:

Contact us at [nursing@uwgb.edu](mailto:nursing@uwgb.edu)

920-465-2826 or

Toll-free 888-NSG-UWGB (888-674-8942)

To apply online: <https://apply.wisconsin.edu/>

#### Internet-based BSN@HOME Track for Wisconsin residents:

Contact us at [nursing@uwgb.edu](mailto:nursing@uwgb.edu)

920-465-2826 or

Toll-free 888-674-8942

Visit the BSN@HOME website: <http://www.bsnathome.com>

To apply online: <https://apply.wisconsin.edu/>

#### Internet-based BSN-LINC/National Track for RNs outside the state of Wisconsin:

Contact us at [bsnlinc@learn.uwsa.edu](mailto:bsnlinc@learn.uwsa.edu)

Toll-free 877-656-1483

Visit the BSN-LINC National website: <http://bsnlinc.wisconsin.edu/>

To apply online: <http://bsnlinc.wisconsin.edu/howtoapply.asp>

# Philosophy

Disciplinary Major or Minor (p. 60)  
(Bachelor of Arts)

**Professor** – Derek Jeffreys

**Associate Professors** – Hye-Kyung Kim, Christopher Martin (chair)

The study of philosophy increases our appreciation and awareness of the deep intellectual, ethical, logical, and aesthetic structure of our world. The discipline of philosophy, like mathematics, economics and chemistry, embodies formal thought, structural relationships, abstract models, symbolic languages, and deductive methods. Students who develop these skills develop a perspective which allows them to better address problems squarely, think through and devise deep and creative solutions, and better address and overcome unpredictable circumstances in life.

Philosophy students routinely score better than nearly all other majors on the Graduate Record Exam, GMAT and LSAT. This is not surprising, given that Philosophy students are taught how to read well and carefully difficult texts, how to extract and evaluate complex ideas and arguments, and how to express their own reasoning about these ideas in an articulate and detailed manner.

The true virtue of an education in philosophy, however, extends beyond the domain of personal and academic skills.

As the global community continues to shrink and corporate America restructures, careers will increasingly demand employees who can think critically, disclose hidden assumptions and values, formulate problems clearly, and discern the impact of ideas. Philosophy students are looked upon as assets to companies and organizations in a wide array of fields, including business, health care, politics, and higher education. The mental acuity and flexibility provided by a background in philosophy prepares our students well for the career challenges of their future.

Our undergraduate program in Philosophy is designed to complement the strengths of other programs and disciplines at UW-Green Bay.

**A degree in Philosophy should help students realize the following aims:**

1. Be familiar with the history of philosophical thought and able to identify the dominant figures and issues in the ancient, medieval, early modern and modern philosophical eras. Refer to PHILOS 213 or PHILOS 214
2. Be able to articulate and think carefully through questions about the structure and nature of reality, our place within it, and how we ought to act.
3. Be able to interpret and extract an author's arguments from a text and to offer novel, substantive commentary on philosophical positions.
4. Be able to offer a balanced and fair evaluation of major philosophical figures and issues in writing and public presentation.
5. Be able to compose and deliver to an audience a clear and cogent philosophical argument in defense of their preferred position.

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

- Philosophy Major (p. 203)

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

- Philosophy Minor (p. 204)

## Philosophy Major

**This disciplinary major also requires:**

- Completion of an interdisciplinary major or minor (p. 58)

### Supporting Courses

PHILOS 213	Ancient Philosophy
or PHILOS 214	Early Modern Philosophy

**Choose two of the following courses:**

PHILOS 101	Introduction to Philosophy
PHILOS 102	Contemporary Ethical Issues
PHILOS 103	Logic and Reasoning
PHILOS 105	Justice and Citizenship in the Modern World
PHILOS 208	Biomedical Ethics
PHILOS 211	Philosophy of Art
PHILOS 212	Philosophy, Religion, and Science

PHILOS 213	Ancient Philosophy
PHILOS 214	Early Modern Philosophy
PHILOS 216	Introduction to Asian Philosophy
PHILOS 217	Introduction to the Philosophy of Religion
PHILOS 220	Environmental Ethics
<b>Upper-Level Courses</b>	<b>24</b>
<b>Choose two of the following courses:</b>	
PHILOS 309	Religion and Medieval Philosophy
PHILOS 323	Modern Philosophy
PHILOS 324	Contemporary Philosophy
PHILOS 401	Plato and Aristotle
<b>Choose two of the following courses:</b>	
PHILOS 301	Ethical Theory
PHILOS 308	Philosophy and the Sciences
PHILOS 326	Philosophy, Politics and Law
PHILOS 420	Metaphysics
<b>Choose four additional upper-level elective courses from those listed above, including:</b>	
PHILOS 403	Topics in Philosophy

Total Credits

33

## Philosophy Minor

This disciplinary minor also requires:

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

9

PHILOS 213	Ancient Philosophy
or PHILOS 214	Early Modern Philosophy
<b>Choose two of the following courses:</b>	
PHILOS 101	Introduction to Philosophy
PHILOS 102	Contemporary Ethical Issues
PHILOS 103	Logic and Reasoning
PHILOS 105	Justice and Citizenship in the Modern World
PHILOS 208	Biomedical Ethics
PHILOS 212	Philosophy, Religion, and Science
PHILOS 213	Ancient Philosophy
PHILOS 214	Early Modern Philosophy
PHILOS 216	Introduction to Asian Philosophy
PHILOS 217	Introduction to the Philosophy of Religion
PHILOS 220	Environmental Ethics

### Upper-Level Courses

12

<b>Choose one of the following courses:</b>	
PHILOS 309	Religion and Medieval Philosophy
PHILOS 323	Modern Philosophy
PHILOS 324	Contemporary Philosophy
PHILOS 401	Plato and Aristotle
PHILOS 403	Topics in Philosophy (If content is historical rather than topical)
PHILOS 498	Independent Study (If content is historical rather than topical) <sup>1</sup>
<b>Choose one of the following courses:</b>	
PHILOS 301	Ethical Theory
PHILOS 308	Philosophy and the Sciences
PHILOS 326	Philosophy, Politics and Law
PHILOS 403	Topics in Philosophy (If content is topical rather than historical)

PHILOS 420	Metaphysics
PHILOS 498	Independent Study (If content is topical rather than historical) <sup>1</sup>
<b>Choose two additional upper-level elective courses from those listed above.</b>	

Total Credits 21

<sup>1</sup> PHILOS 498 courses are created and faculty approved and identified as a topical or historical content course substitution to the respective academic requirements in the Student Information System.

## Physics

Disciplinary Minor (p. 60)

**Professor** – Heidi Fencil

**Associate Professor** – Michael Hencheck (chair)

**Assistant Professor** – Heidi Fencil

Physics is the study of matter and energy, and their interactions in the areas of mechanics, heat, sound, optics, electricity, magnetism, radiation, and the atomic and sub-atomic world. Physics provides students with concepts and models for describing, understanding, and predicting many characteristics and phenomena of physical and biological systems. As such, it provides the foundation for many other sciences such as chemistry, astronomy, biology, geology, engineering, and medicine.

A minor in Physics is an appropriate choice for students pursuing interdisciplinary majors in Environmental Science and Human Biology. It is also a good choice for students who plan to teach at the secondary level because there is a chronic shortage of qualified physics teachers.

Students seeking information on teacher certification should contact the Education Office.

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

- Physics Minor (p. 205)

## Physics Minor

**This disciplinary minor also requires:**

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

18

MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
PHYSICS 201	Principles of Physics I
PHYSICS 202	Principles of Physics II

### Upper-Level Courses

12

PHYSICS 310	Modern Physics
<b>Elective Courses (choose a minimum of 9 credits from the following):</b>	
PHYSICS 320	Thermodynamics and Kinetics
PHYSICS 321	Structure of Matter
PHYSICS 322	Thermodynamics and Kinetics Laboratory
PHYSICS 323	Structure of Matter Laboratory
PHYSICS 404	Electricity and Magnetism
PHYSICS 415	Solar and Alternate Energy Systems
PHYSICS 417	Nuclear Physics and Radiochemistry
PHYSICS 420	Advanced Physics Laboratory

Total Credits 30

## Political Science

Disciplinary Major or Minor (p. 60)  
(Bachelor of Arts)

**Professor** – Scott R. Furlong

**Associate Professor** – Ekaterina Levintova (chair)

**Assistant Professors** – Kris Coulter, David Helpap, Alison Staudinger, Aaron Weinschenk, Elizabeth Wheat

Political Science is concerned with the systematic study of political behavior, governmental institutions and policy-making processes, public policies and their implementation, and political values in local, state, national, cross-national and international settings.

The program acquaints students with the structure and operation of political systems; the cultural, social, economic, and ideological context of these systems; the major philosophical questions and relevance to understanding modern political phenomena; and the major methods of inquiry and analysis used in the contemporary study of politics, government and public policy.

Political Science is a major often chosen by students who plan to attend law school. It is useful as well for students anticipating careers in journalism, planning, education, business, foreign service, politics, and public service positions with private and public agencies at the local, state, regional, federal, and international levels.

Political Science majors have entered graduate study in political science, public administration, education, and related fields.

Majors in Political Science must choose an interdisciplinary minor. Because Political Science is a discipline that can be useful in many endeavors, there are a number of appropriate choices, depending upon a student's individual interests. The most commonly chosen minors are Public Administration, Urban and Regional Studies, Environmental Policy and Planning, Communication, Democracy and Justice Studies, and Business Administration.

Students seeking information on teacher certification should contact the Education Office.

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

- Political Science Major (p. 206)

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

- Political Science Minor (p. 207)

## Political Science Major

**This disciplinary major also requires:**

- Completion of an interdisciplinary major or minor (p. 58)

**Supporting Courses**

13

POL SCI 100	Global Politics and Society
POL SCI 101	American Government and Politics
POL SCI 202/PU EN AF 202 or PU EN AF 215	Introduction to Public Policy Introduction to Public Administration
<b>Choose one of the following:</b>	
BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics (strongly recommended)
MATH 260	Introductory Statistics

**Upper-Level Courses**

24

<b>Core Courses</b>	
POL SCI 351	Comparative Politics
POL SCI 340 or POL SCI 349	Political Theory American Political Thought
<b>Choose one of the following:</b>	
POL SCI 360 or POL SCI 370	International Relations Foreign and Defense Policies
<b>Choose one of the following:</b>	
POL SCI 316	Congress: Politics and Policy
POL SCI 318	Political Behavior
POL SCI/DJS 320	Constitutional Law

**Choose 12 additional credits from the following list, not taken above:**

DJS 325	Law and Society
HISTORY 358	Political History of Modern Latin America
POL SCI 301/PU EN AF 301	Environmental Politics and Policy
POL SCI 305/UR RE ST 305	Urban Politics and Policy
POL SCI 306/PU EN AF 306	Regulatory Policy and Administration
POL SCI 310	The American Presidency
POL SCI 312/UR RE ST 312	Community Politics
POL SCI 314/PU EN AF 314	Administrative Law
POL SCI 316	Congress: Politics and Policy
POL SCI 318	Political Behavior
POL SCI/DJS 320	Constitutional Law
POL SCI/DJS 349	American Political Thought
POL SCI 353	Politics of Developing Areas
POL SCI 360	International Relations
POL SCI 370	Foreign and Defense Policies
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy
POL SCI 406/PU EN AF 406	State and Local Government
POL SCI 408/PU EN AF 408	Public Policy Analysis
POL SCI 480	Senior Seminar/Capstone in Political Science
POL SCI 497	Internship
POL SCI 498	Independent Study
POL SCI 499	Travel Course
PU EN AF 378	Environmental Law

Total Credits

37

## Political Science Minor

This disciplinary minor also requires:

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

6

#### Choose two of the following:

POL SCI 100	Global Politics and Society
POL SCI 101	American Government and Politics
POL SCI 202/PU EN AF 202	Introduction to Public Policy
PU EN AF 215	Introduction to Public Administration

### Upper-Level Courses

12

#### Choose four of the following:

POL SCI 301/PU EN AF 301	Environmental Politics and Policy
POL SCI 305/UR RE ST 305	Urban Politics and Policy
POL SCI 306/PU EN AF 306	Regulatory Policy and Administration
POL SCI 310	The American Presidency
POL SCI 312/UR RE ST 312	Community Politics
POL SCI 314/PU EN AF 314	Administrative Law
POL SCI 316	Congress: Politics and Policy
POL SCI 318	Political Behavior
POL SCI/DJS 320	Constitutional Law
POL SCI 340	Political Theory
POL SCI/DJS 349	American Political Thought
POL SCI 351	Comparative Politics
POL SCI 353	Politics of Developing Areas
POL SCI 360	International Relations
POL SCI 370	Foreign and Defense Policies

POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy
POL SCI 406/PU EN AF 406	State and Local Government
POL SCI 408/PU EN AF 408	Public Policy Analysis
POL SCI 497	Internship
POL SCI 498	Independent Study
POL SCI 499	Travel Course

Total Credits

18

## Professional Studies Majors and Minors

### Academic Programs

- Austin E. Cofrin School of Business
  - Accounting (p. 63)
  - Business Administration (p. 79)
  - International Business (p. 85)
- Education (p. 107)
- Health Information Management and Technology (p. 140)
- Nursing (p. 200)
- Social Work (p. 218)

## Psychology

Disciplinary Major or Minor (p. 60)  
(Bachelor of Science)

**Professors** – Illene Cupit, Regan A. R. Gurung, Dean VonDras, Julia Wallace

**Associate Professors** – Denise Bartell, Kathleen Burns, Jennifer Lanter, Dennis Lorenz, Ryan Martin (chair), Deirdre Radosevich, Christine Smith, Kristin Vespia, Georjeanna Wilson-Doenges

**Assistant Professors** – Jenell Holstead, Sawa Senzaki

Psychology is the systematic and scientific study of behavior and mental processes (e.g., memory, emotion). It seeks to explain how physiological, personal, cultural, social, developmental, and environmental conditions influence thought and action. Research aims to understand, predict, and influence behavior.

In the past century, psychology has moved from being a branch of philosophy to being both an experimental science and an active helping profession. Likewise, psychologists work in a variety of settings where their expertise in human behavior is applied to increase efficiency, assist in product design, improve work conditions, and more. To quote the American Psychological Association, “In every conceivable setting from scientific research centers to mental healthcare services, ‘the understanding of behavior’ is the enterprise of psychologists” ([www.APA.org](http://www.APA.org)).

Psychology has developed several specialized sub-areas with foci spanning from the level of the nerve cell (e.g., the neural basis of memory) to that of society (e.g., the developmental consequences of the Head Start program). To recognize that subject matter diversity in the field, the Psychology major also has specific emphases. Students may choose to complete one of the following: (1) Brain, Behavior, and Health; (2) Mental Health; (3) Sustainability; or (4) Culture and Gender Diversity. However, students are not required to have an emphasis and should speak with a Psychology adviser about whether or not one of an area of emphasis is the right fit for them.

A strong grasp of psychology also requires knowledge of the approach and content of considered core to the field as a whole. Students gain this understanding by completing coursework in the primary areas of Psychology: Research Methods, Physiological/Cognitive, Social/Personality, Developmental, and Clinical. Students without an emphasis then complete the major by choosing additional courses to meet individual needs with the help of a Psychology adviser. Those students who elect to have an emphasis should still meet frequently with an adviser to discuss career planning and professional development but will have specific upper-level courses to take to meet the emphasis requirements and complete the major.

Regardless of emphasis, the program offers special opportunities for students to strengthen their professional preparation. Psychology faculty frequently work with students on collaborative research projects. Support for advanced student research is enhanced by technology in the social science research suite. Although all courses are taught by faculty members, undergraduate teaching assistantships allow students to master course content and receive valuable training in the teaching of psychology. Internships are available in a variety of community settings.

Psychology helps to deepen understanding of individual and social behavior and provides a strong general background for many careers. Psychology graduates are employed in a variety of positions with social and community service agencies, businesses, research firms, and governmental agencies. Preparation for specialized professional work — such as testing, counseling, university teaching, consulting, and many research activities — usually requires a master’s or doctoral degree. Psychology majors have pursued graduate school in many fields, including psychology sub-disciplines such as



experimental, developmental, industrial/organizational, social, and clinical, counseling, or school psychology, as well as the related fields of social work, education, medicine, law and business.

Psychology majors must choose an interdisciplinary minor. There are many different complementary minors. They vary based on individual interests and future career or educational goals, so students are encouraged to discuss options with a Psychology adviser.

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

- Brain, Behavior and Health Emphasis (p. 209)
- Cultural and Gender Diversity Emphasis (p. 210)
- General Psychology Emphasis (p. 211)
- Mental Health Emphasis (p. 212)
- Sustainability Emphasis (p. 213)

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

- Psychology Minor (p. 214)

## Psychology Major

**This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

- Brain, Behavior and Health Emphasis (p. 209)
- Cultural and Gender Diversity Emphasis (p. 210)
- General Psychology Emphasis (p. 211)
- Mental Health Emphasis (p. 212)
- Sustainability Emphasis (p. 213)

## Brain, Behavior and Health Emphasis

**Supporting Courses**

10-11

PSYCH 102	Introduction to Psychology
BIOLOGY 201 & BIOLOGY 202 or HUM BIOL 102	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes Introduction to Human Biology
<b>Choose one of the following courses:</b>	
BUS ADM 216	Business Statistics (for Business major and minors only)
COMM SCI 205	Social Science Statistics
MATH 260	Introductory Statistics

**Upper-Level Courses**

28

PSYCH 300	Research Methods in Psychology
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**Core Courses**

**Social/Personality:**

PSYCH 330 or PSYCH 429	Social Psychology Theories of Personality
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**Developmental (choose one of the following courses):**

HUM DEV 331	Infancy and Early Childhood
HUM DEV 332	Middle Childhood and Adolescence
HUM DEV 343	Adulthood and Aging

**Clinical:**

PSYCH 435 or PSYCH 438	Abnormal Psychology Counseling and Psychotherapy
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**Brain, Behavior, and Health**

PSYCH 308	Physiological Psychology
PSYCH 310	Drugs and Behavior
PSYCH 417	Psychology of Cognitive Processes
PSYCH 450	Health Psychology
<b>Elective Course (choose 3 credits from Social/Personality or Clinical that were not taken to fulfill upper-level core requirement) OR select one of the following:</b>	
PSYCH 305	Psychology of Stereotyping and Prejudice
PSYCH 350	Psychology and Culture
PSYCH 380	Conservation Psychology
PSYCH 390	Environmental Psychology
PSYCH 401	Psychology of Women
PSYCH 415	Organizational and Personnel Psychology
PSYCH 420	Psychological Testing
PSYCH 424	Psychology of Emotion
PSYCH 430	History and Systems of Psychology
PSYCH 440	Multicultural Counseling and Mental Health
PSYCH 460	Clinical Child Psychology
PSYCH 494	Senior Capstone in Psychology
PSYCH 497	Internship
<b>One of the following is encouraged, but does not count toward major requirements:</b>	
PSYCH 478	Honors in the Major
PSYCH 495	Teaching Assistantship
PSYCH 496	Research Assistantship
PSYCH 498	Independent Study

Total Credits

38-39

## Cultural and Gender Diversity Emphasis

### Supporting Courses

10-11

PSYCH 102	Introduction to Psychology
BIOLOGY 201 & BIOLOGY 202 or HUM BIOL 102	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes Introduction to Human Biology
<b>Choose one of the following courses:</b>	
BUS ADM 216	Business Statistics (for Business major and minors only)
COMM SCI 205	Social Science Statistics
MATH 260	Introductory Statistics

### Upper-Level Courses

28

PSYCH 300	Research Methods in Psychology
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### Core Courses

<b>Physiological/Cognitive:</b>	
PSYCH 308 or PSYCH 417	Physiological Psychology Psychology of Cognitive Processes
<b>Developmental (choose one of the following courses):</b>	
HUM DEV 331	Infancy and Early Childhood
HUM DEV 332	Middle Childhood and Adolescence
HUM DEV 343	Adulthood and Aging
<b>Clinical:</b>	
PSYCH 435 or PSYCH 438	Abnormal Psychology Counseling and Psychotherapy
<b>Cultural and Gender Diversity</b>	
PSYCH 330	Social Psychology
PSYCH 350	Psychology and Culture

PSYCH 401	Psychology of Women
PSYCH 440	Multicultural Counseling and Mental Health
<b>Elective Course (choose 3 credits from Physiological/Cognitive or Clinical that were not taken to fulfill upper-level core requirement)</b>	
<b>OR select one of the following:</b>	
PSYCH 305	Psychology of Stereotyping and Prejudice
PSYCH 310	Drugs and Behavior
PSYCH 380	Conservation Psychology
PSYCH 390	Environmental Psychology
PSYCH 415	Organizational and Personnel Psychology
PSYCH 420	Psychological Testing
PSYCH 424	Psychology of Emotion
PSYCH 429	Theories of Personality
PSYCH 430	History and Systems of Psychology
PSYCH 450	Health Psychology
PSYCH 460	Clinical Child Psychology
PSYCH 494	Senior Capstone in Psychology
PSYCH 497	Internship
<b>One of the following is encouraged, but does not count toward major requirements:</b>	
PSYCH 478	Honors in the Major
PSYCH 495	Teaching Assistantship
PSYCH 496	Research Assistantship
PSYCH 498	Independent Study

Total Credits

38-39

## General Psychology Emphasis

### Supporting Courses

10-11

PSYCH 102	Introduction to Psychology
BIOLOGY 201 & BIOLOGY 202 or HUM BIOL 102	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes Introduction to Human Biology
<b>Choose one of the following courses:</b>	
BUS ADM 216	Business Statistics (for Business major and minors only)
COMM SCI 205	Social Science Statistics
MATH 260	Introductory Statistics

### Upper-Level Courses

28

PSYCH 300	Research Methods in Psychology
<b>Core Courses</b>	
<b>Physiological/Cognitive:</b>	
PSYCH 308 or PSYCH 417	Physiological Psychology Psychology of Cognitive Processes
<b>Social/Personality:</b>	
PSYCH 330 or PSYCH 429	Social Psychology Theories of Personality
<b>Developmental (choose one of the following courses):</b>	
HUM DEV 331	Infancy and Early Childhood
HUM DEV 332	Middle Childhood and Adolescence
HUM DEV 343	Adulthood and Aging
<b>Clinical:</b>	
PSYCH 435 or PSYCH 438	Abnormal Psychology Counseling and Psychotherapy

**Elective Courses (choose 12 credits from Physiological/Cognitive, Social/Personality or Clinical core courses (that were not taken to fulfill upper-level core requirement) OR select four of the following:**

PSYCH 305	Psychology of Stereotyping and Prejudice
PSYCH 310	Drugs and Behavior
PSYCH 350	Psychology and Culture
PSYCH 380	Conservation Psychology
PSYCH 390	Environmental Psychology
PSYCH 401	Psychology of Women
PSYCH 415	Organizational and Personnel Psychology
PSYCH 420	Psychological Testing
PSYCH 424	Psychology of Emotion
PSYCH 430	History and Systems of Psychology
PSYCH 440	Multicultural Counseling and Mental Health
PSYCH 450	Health Psychology
PSYCH 460	Clinical Child Psychology
PSYCH 494	Senior Capstone in Psychology
PSYCH 497	Internship
<b>One of the following is encouraged, but does not count toward major requirements:</b>	
PSYCH 478	Honors in the Major
PSYCH 495	Teaching Assistantship
PSYCH 496	Research Assistantship
PSYCH 498	Independent Study

Total Credits

38-39

## Mental Health Emphasis

### Supporting Courses

10-11

PSYCH 102	Introduction to Psychology
BIOLOGY 201 & BIOLOGY 202 or HUM BIOL 102	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes Introduction to Human Biology
<b>Choose one of the following courses:</b>	
BUS ADM 216	Business Statistics (for Business major and minors only)
COMM SCI 205	Social Science Statistics
MATH 260	Introductory Statistics

### Upper-Level Courses

28

PSYCH 300	Research Methods in Psychology
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### Core Courses

#### Physiological/Cognitive:

PSYCH 308 or PSYCH 417	Physiological Psychology Psychology of Cognitive Processes
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#### Social/Personality:

PSYCH 330 or PSYCH 429	Social Psychology Theories of Personality
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#### Developmental (choose one of the following courses):

HUM DEV 331	Infancy and Early Childhood
HUM DEV 332	Middle Childhood and Adolescence
HUM DEV 343	Adulthood and Aging

#### Mental Health

PSYCH 420	Psychological Testing
PSYCH 435	Abnormal Psychology
PSYCH 438	Counseling and Psychotherapy
PSYCH 440	Multicultural Counseling and Mental Health

**Elective Course (choose 3 credits from Physiological/Cognitive or Social/Personality that were not taken to fulfill upper-level core requirement) OR select one of the following:**

PSYCH 305	Psychology of Stereotyping and Prejudice
PSYCH 310	Drugs and Behavior
PSYCH 350	Psychology and Culture
PSYCH 380	Conservation Psychology
PSYCH 390	Environmental Psychology
PSYCH 401	Psychology of Women
PSYCH 415	Organizational and Personnel Psychology
PSYCH 424	Psychology of Emotion
PSYCH 430	History and Systems of Psychology
PSYCH 450	Health Psychology
PSYCH 460	Clinical Child Psychology
PSYCH 494	Senior Capstone in Psychology
PSYCH 497	Internship
<b>One of the following is encouraged, but does not count toward major requirements:</b>	
PSYCH 478	Honors in the Major
PSYCH 495	Teaching Assistantship
PSYCH 496	Research Assistantship
PSYCH 498	Independent Study

Total Credits

38-39

## Sustainability Emphasis

### Supporting Courses

10-11

PSYCH 102	Introduction to Psychology
BIOLOGY 201 & BIOLOGY 202 or HUM BIOL 102	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes Introduction to Human Biology
<b>Choose one of the following courses:</b>	
BUS ADM 216	Business Statistics (for Business major and minors only)
COMM SCI 205	Social Science Statistics
MATH 260	Introductory Statistics

### Upper-Level Courses

28

PSYCH 300	Research Methods in Psychology
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### Core Courses

#### Physiological/Cognitive:

PSYCH 308	Physiological Psychology
or PSYCH 417	Psychology of Cognitive Processes

#### Developmental (choose one of the following courses):

HUM DEV 331	Infancy and Early Childhood
HUM DEV 332	Middle Childhood and Adolescence
HUM DEV 343	Adulthood and Aging

#### Clinical:

PSYCH 435	Abnormal Psychology
or PSYCH 438	Counseling and Psychotherapy

#### Sustainability:

PSYCH 330	Social Psychology
PSYCH 380	Conservation Psychology
PSYCH 390	Environmental Psychology
PSYCH 424	Psychology of Emotion

**Elective Course (choose 3 credits from Physiological/Cognitive or Clinical that were not taken to fulfill upper-level core requirement)**

**OR select one of the following:**

PSYCH 305	Psychology of Stereotyping and Prejudice
PSYCH 310	Drugs and Behavior

PSYCH 350	Psychology and Culture
PSYCH 401	Psychology of Women
PSYCH 415	Organizational and Personnel Psychology
PSYCH 420	Psychological Testing
PSYCH 429	Theories of Personality
PSYCH 430	History and Systems of Psychology
PSYCH 440	Multicultural Counseling and Mental Health
PSYCH 450	Health Psychology
PSYCH 460	Clinical Child Psychology
PSYCH 494	Senior Capstone in Psychology
PSYCH 497	Internship
<b>One of the following is encouraged, but does not count toward major requirements:</b>	
PSYCH 478	Honors in the Major
PSYCH 495	Teaching Assistantship
PSYCH 496	Research Assistantship
PSYCH 498	Independent Study
<hr/>	
Total Credits	38-39

## Psychology Minor

This disciplinary minor also requires:

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

10-11

PSYCH 102	Introduction to Psychology
<b>Choose one:</b>	
BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
MATH 260	Introductory Statistics
<b>Choose one:</b>	
COMM SCI 301	Foundations for Social Research
HUM DEV 302	Developmental Research Methods
PSYCH 300	Research Methods in Psychology

### Upper-Level Courses <sup>1</sup>

15

Total Credits	25-26
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<sup>1</sup> Courses not used in one of the four core requirement areas may be completed as the one additional elective course.

## Public Administration

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Science)

**Professors** – Scott R. Furlong, John R. Stoll (chair)

**Associate Professors** – Ekaterina Levintova, Laurel E. Phoenix, Lora Warner

**Assistant Professors** – David Helpap, Aaron Weinschenk, Elizabeth Wheat

**Instructor** – Karen Dalke

As a broad-based, interdisciplinary, social science major, Public Administration is designed to prepare students for challenging careers in public and nonprofit organizations, as well as for further study in graduate programs. Students develop proficiency in organizational management and leadership, public policy analysis, program evaluation, policy development and implementation, budgeting, and governmental processes.

Graduates hold positions as professional administrators, policy analysts, budget specialists, program managers, personnel counselors, governmental affairs directors for businesses, and human resource specialists. Many pursue graduate studies in public administration, law, political science, social services, public policy, and public affairs.

Because of the wide range of course offerings in Public Administration, some students choose to sharpen their managerial skills so they can pursue careers in management within public or non-profit organizations. Other students choose to focus on understanding substantive policy issues (e.g., education, environmental policy, public finance, social justice) and public policy design.

All Public Administration majors engage in both theoretical and applied studies. Many courses include theory as well as problem-focused, applied learning. Students are encouraged to gain these experiences through independent study, community research projects, and an internship program administered by the department. Public Administration majors have completed internships in city, county and state executive offices, as well as non-profit agencies.

The major in Public Administration consists of three sets of requirements: required supporting courses, upper-level core courses, and elective credits within the major. Majors are encouraged to emphasize **public management and policy**, **nonprofit management**, or **emergency management**. Students who want to focus their study specifically on the nonprofit sector should consider earning the free-standing Nonprofit Management Certificate. A number of courses in emergency management meet the elective requirements of the major and are offered in cooperation with campus Outreach and Adult Access programs; a certificate is available in this area as well. Students are encouraged to seek assistance from a faculty adviser in creating their academic plan.

#### Considering a Double Major or a Major and a Minor?

Many Public Administration students choose to complete double majors in Political Science, Environmental Policy and Planning, or Economics. A second major complements the Public Administration curriculum, and makes students stronger candidates when seeking careers or entry into graduate programs. Students interested in the arts may want to consider the Arts Management minor.

Not interested in a Public Administration major? Then an interdisciplinary minor in Public Administration fits well with majors in Political Science, Economics, Communication, Environmental Policy and Planning, Urban and Regional Studies, or Democracy and Justice Studies. See a faculty adviser early in your academic career for advice on these options.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and the National Student Exchange program. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

- Public (p. 215) Administration (p. 216)
- Public Administration Minor (p. 217)

## Public Administration Major

- Public Administration (p. 216)

## Emergency Management Emphasis

### Supporting Courses

ECON 203	Micro Economic Analysis	16
POL SCI 101	American Government and Politics	
PU EN AF 202/POL SCI 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
<b>Choose one of the following:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	

### Upper-Level Courses

29-30

#### Required Courses

PU EN AF 315	Public and Non-Profit Management
PU EN AF 335	Principles and Practices of Emergency Management
PU EN AF 336	Strategic Emergency Preparedness, Planning and Implementation
PU EN AF 337	Disaster Response Operations and Management
PU EN AF 338	Disaster Recovery
PU EN AF 339	Political and Policy Dimensions of Emergency Management
PU EN AF 408/POL SCI 408	Public Policy Analysis
PU EN AF 497	Internship (In the subject of emergency management)

A 2.75 cumulative GPA is required for internships. Only 3 credits of internship can count toward the major.

**Choose two of the following:**

PU EN AF 344	Leadership in Organizations	
PU EN AF 350	GIS in Public and Environmental Policy	
PU EN AF 415	Public and Nonprofit Budgeting	
PU EN AF 428	Public and Nonprofit Program Evaluation	
Total Credits		45-46

## Nonprofit Management Emphasis

<b>Supporting Courses</b>		16
ECON 203	Micro Economic Analysis	
POL SCI 101	American Government and Politics	
PU EN AF 202/POL SCI 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
<b>Choose one of the following:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	

### Upper Level Courses 27

<b>Required Courses</b>		
PU EN AF 315	Public and Non-Profit Management	
PU EN AF 344	Leadership in Organizations	
PU EN AF 415	Public and Nonprofit Budgeting	
PU EN AF 425	Fundraising and Marketing for Nonprofits	
PU EN AF 428	Public and Nonprofit Program Evaluation	
PU EN AF 497	Internship (In the subject of Public and Environmental Affairs)	
Please note that campus policy requires a 2.75 cumulative GPA for enrollment in an internship. Only 3 credits of internship can count toward the major.		
<b>Choose three electives from the following:</b>		
ARTS MGT 354	Managing Arts and Cultural Organizations	
BUS ADM 322	Introductory Marketing	
COMM 335	Organizational Communication	
COMM 340	Mediation and Conflict Resolution	
POL SCI 305/UR RE ST 305	Urban Politics and Policy	
POL SCI 312/UR RE ST 312	Community Politics	
PU EN AF 301/POL SCI 301	Environmental Politics and Policy	
PU EN AF 314/POL SCI 314	Administrative Law	
PU EN AF 408/POL SCI 408	Public Policy Analysis	
PU EN AF 426	Strategic Philanthropy: Civic Engagement Through Giving	
PU EN AF 498	Independent Study	

Total Credits 43

## Public Administration

<b>Supporting Courses</b>		16
ECON 203	Micro Economic Analysis	
POL SCI 101	American Government and Politics	
PU EN AF 202/POL SCI 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
<b>Choose one of the following:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	

**Upper-Level Courses** 33-34



**Required**

PU EN AF 315	Public and Non-Profit Management
PU EN AF 345	Public and Nonprofit Human Resource and Risk Management
PU EN AF 408/POL SCI 408	Public Policy Analysis
PU EN AF 415	Public and Nonprofit Budgeting
PU EN AF 428	Public and Nonprofit Program Evaluation

**Capston Experience:**

POL SCI 480	Senior Seminar/Capstone in Political Science
or PU EN AF 430	Seminar in Ethics and Public Action

**Upper Level Electives****Analytic Methods-choose one of the following (3-4 credits):**

POL SCI 318	Political Behavior
PU EN AF 350/GEOG 350	GIS in Public and Environmental Policy
PU EN AF 453	Cost Benefit Analysis

**Public Policy/Administration (choose two of the following courses - 6 credits):**

POL SCI 305	Urban Politics and Policy
POL SCI 316	Congress: Politics and Policy
POL SCI 370	Foreign and Defense Policies
PU EN AF 301	Environmental Politics and Policy
PU EN AF 305	Natural Resources Economic Policy
PU EN AF 306	Regulatory Policy and Administration
PU EN AF 314/POL SCI 314	Administrative Law
PU EN AF 378	Environmental Law
PU EN AF 379	Natural Resources Policy, Law, and Administration
PU EN AF 380	Global Environmental Politics and Policy
PU EN AF 406	State and Local Government
PU EN AF 497	Internship <sup>1</sup>
PU EN AF 498	Independent Study <sup>1</sup>

**Nonprofit Management (choose two of the following courses):**

ARTS MGT 354	Managing Arts and Cultural Organizations
BUS ADM 322	Introductory Marketing
BUS ADM 382	Introductory Management
BUS ADM 389	Organizational Behavior
PU EN AF 324	Transitioning to Sustainable Communities
PU EN AF 425	Fundraising and Marketing for Nonprofits
PU EN AF 426	Strategic Philanthropy: Civic Engagement Through Giving
PU EN AF 497	Internship <sup>1</sup>
PU EN AF 498	Independent Study <sup>1</sup>

Total Credits

49-50

<sup>1</sup> PU EN AF 497 and PU EN AF 498 can each only be completed for 3 credits and used once to satisfy a major requirement in Public Policy or Nonprofit Management area of upper level requirements. A 2.75 GPA is required for internship participation.

## Public Administration Minor

**Supporting Courses**

9

POL SCI 101	American Government and Politics
PU EN AF 202/POL SCI 202	Introduction to Public Policy
PU EN AF 215	Introduction to Public Administration

**Upper-Level Courses**

15

**Required course:**

PU EN AF 315	Public and Non-Profit Management
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<b>Choose two of the following:</b>	
PU EN AF 408/POL SCI 408	Public Policy Analysis
PU EN AF 415	Public and Nonprofit Budgeting
PU EN AF 428	Public and Nonprofit Program Evaluation
<b>Choose two electives from the following:</b>	
POL SCI 305	Urban Politics and Policy
PU EN AF 306/POL SCI 306	Regulatory Policy and Administration
PU EN AF 301	Environmental Politics and Policy
PU EN AF 314/POL SCI 314	Administrative Law
PU EN AF 324	Transitioning to Sustainable Communities
PU EN AF 406/POL SCI 406	State and Local Government
PU EN AF 408/POL SCI 408	Public Policy Analysis
PU EN AF 415	Public and Nonprofit Budgeting
PU EN AF 425	Fundraising and Marketing for Nonprofits
PU EN AF 428	Public and Nonprofit Program Evaluation
PU EN AF 453/ECON 453	Cost Benefit Analysis
PU EN AF 497	Internship (In the subject of public administration) <sup>1</sup>

Total Credits

24

<sup>1</sup> A 2.75 cumulative GPA is required for internships. Only 3 credits of internship can count toward the minor.

## Social Work

Professional Major (p. 58)  
(Bachelor of Social Work)

**Associate Professors** – Francis Akakpo, Doreen Higgins, Jolanda Sallmann, Gail Trimberger (chair)

**Assistant Professors** – Adrienne M. Crawford Fletcher, Joan Groessl

**Lecturers** – Karen Jick, Nina Powell, Jennifer Schanen, Dana Strohm

Social work is an exciting and dynamic profession. The major in Social Work, leading to the Bachelor of Social Work (BSW) degree, prepares a graduate for a career as a social worker working with a broad range of individuals, families, organizations, and communities. Graduates of the UW-Green Bay Social Work Professional Program secure positions in programs serving populations that include older adults, children and their families, persons challenged by developmental and other disabilities, juvenile and adult offenders, persons experiencing mental or physical health issues, and other groups identified in this ever-evolving field. Social workers provide direct service and work for social justice through advocacy and, for example, social policy development and change.

The Social Work Professional Program has full accreditation from the Council on Social Work Education. The BSW degree from UW-Green Bay allows the graduate to obtain state certification and provides a broad range of employment opportunities.

Majors may elect to enroll in the child welfare emphasis, preparing for a career in child welfare practice. Students who have an interest in a career in public or tribal child welfare can apply for a stipend through The Child Welfare Education Program.

A Bachelor of Social Work degree provides advanced status for students seeking a Master's Degree in Social Work.

### Program Entry Requirements

Students who wish to major in Social Work must make formal application for admission to the program. This applies to those transferring from other institutions as well as students continuing at UW-Green Bay. Students may apply to the Social Work program at either the February or May application date for fall admission. Application materials are available from the UW-Green Bay Social Work website (<http://www.uwgb.edu/socwork>).

To apply to the BSW degree program, students must first be admitted to the University of Wisconsin-Green Bay. They must have completed at least 27 credits before applying, and 48 credits before beginning the Social Work program. These credits must include at least four supporting courses for the major, with an overall cumulative grade point average of at least 2.5. Applicants must also have demonstrated an interest in the profession by volunteering in the field or through relevant employment, as indicated by letters of reference and the essay accompanying their application. A caregiver background check is part of the application/admission process.

Prospective Social Work majors should seek early advising from Social Work faculty by contacting the Social Work office, 920-465-2049, to schedule an appointment.

- Social Work Major (p. 220)
- Social Work Major with Child Welfare Emphasis (p. 219)

## Social Work Major

- Social Work Child Welfare Emphasis (p. 219)
- Social Work General Emphasis (p. 220)

## Social Work - Child Welfare Emphasis

### Supporting Courses

34-37

COMM SCI 301	Foundations for Social Research
ENG COMP 105	Expository Writing (Satisfied for students with an ACT English score of 32 or higher)
HUM BIOL 102	Introduction to Human Biology
HUM DEV 102	Introduction to Human Development
SOC WORK 275	Foundations of Social Welfare Policy
<b>Choose one of the following courses:</b>	
ANTHRO 304	Family, Kin, and Community
HUM DEV 353	Family Development
SOCIOL 308	Sociology of the Family
SOC WORK 375	Family Principles and Patterns
<b>Choose one of the following courses:</b>	
BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics (Students are strongly encouraged to take this)
MATH 260	Introductory Statistics
<b>Human Behavior (choose one course):</b>	
FNS 224	First Nations and The Sacred
FNS 225	Introduction to First Nations Studies: The Tribal World
HUM BIOL 206	Fertility, Reproduction, and Family Planning <sup>1</sup>
HUM BIOL 324	The Biology of Women <sup>1</sup>
HUM DEV 331	Infancy and Early Childhood <sup>2</sup>
HUM DEV 332	Middle Childhood and Adolescence <sup>2</sup>
HUM DEV 336	Gender Development Across the Lifespan <sup>1</sup>
HUM DEV 342	Cross Cultural Human Development
HUM DEV 343	Adulthood and Aging
HUM DEV 346	Culture, Development and Health
PSYCH 401	Psychology of Women <sup>1</sup>
PSYCH 417	Psychology of Cognitive Processes
PSYCH 435	Abnormal Psychology
SOC WORK 250	You and Your Future: Living and Working in an Aging Society
<b>Government (choose one course):</b>	
POL SCI 101	American Government and Politics
or POL SCI 202	Introduction to Public Policy
<b>Social Environmental Challenges (choose one course):</b>	
DJS 348	Gender and the Law <sup>1</sup>
DJS 371	Gender and Economic Justice <sup>1</sup>
FNS 226	Introduction to First Nations Studies: Social Justice
FNS 360	Women and Gender in First Nations Communities <sup>1</sup>
PSYCH 390	Environmental Psychology
SOC WORK 499	Travel Course
SOCIOL 310	Urban Sociology

UR RE ST 205	Urban Social Problems
UR RE ST 305	Urban Politics and Policy
UR RE ST 312	Community Politics
UR RE ST 341	The City and its Regional Context
UR RE ST 342	Community Economic Development
<b>Social Theory (choose one course):</b>	
DJS 204	Freedom and Social Control
DJS 241	Introduction to Women's & Gender Studies <sup>1</sup>
DJS 325	Law and Society
DJS 362	Power and Change in America
DJS 437	Feminist Theory <sup>1</sup>
FNS 385	Perspectives on Human Values: First Nations
FNS 392	First Nations Justice and Tribal Governments
PSYCH 330	Social Psychology
SOCIO 202	Introduction to Sociology

**Women's Studies (choose one course):**

One Women's and Gender Studies course required. Courses listed above that are associated with Footnote 1 or any course with a WOST prefix may be used to satisfy this requirement.

**Upper-Level Courses** 38

SOC WORK 300	Field Experience in a Human Service Agency
SOC WORK 305	The Social Work Profession
SOC WORK 313	Social Work Skills Lab I
SOC WORK 323	Social Work Skills Lab II
SOC WORK 370	Social Work Methods I
SOC WORK 371	Human Behavior and the Social Environment
SOC WORK 402	Field Practicum I <sup>3</sup>
SOC WORK 403	Field Practicum II <sup>3</sup>
SOC WORK 411	Social Work Methods II
SOC WORK 413	Social Work Skills Lab III
SOC WORK 420	Social Work Methods III
SOC WORK 423	Social Work Skills Lab IV
SOC WORK 431	Social Policy Analysis I
SOC WORK 433	Social Policy Analysis II
SOC WORK 461	Program Evaluation I
SOC WORK 463	Program Evaluation II

**Required Courses for the Emphasis** <sup>2</sup> 12

HUM DEV 331	Infancy and Early Childhood
HUM DEV 332	Middle Childhood and Adolescence
SOC WORK 351	Overview of the Child Welfare System
SOC WORK 451	Child Welfare Practice

Total Credits 84-87

<sup>1</sup> May be used to satisfy the Women's Studies requirement.

<sup>2</sup> These courses cannot be used as a Human Behavior Course if in the Child Welfare Emphasis.

<sup>3</sup> To qualify for the Child Welfare Emphasis, these courses must involve practicum placement in an agency that serves children and families.

## Social Work - General Emphasis

**Supporting Courses** 34-37

COMM SCI 301	Foundations for Social Research
ENG COMP 105	Expository Writing (Satisfied for students with an ACT English score of 32 or higher)
HUM BIOL 102	Introduction to Human Biology

HUM DEV 102 Introduction to Human Development

SOC WORK 275 Foundations of Social Welfare Policy

**Choose one of the following courses:**

ANTHRO 304 Family, Kin, and Community

HUM DEV 353 Family Development

SOCIOL 308 Sociology of the Family

SOC WORK 375 Family Principles and Patterns

**Choose one of the following courses:**

BUS ADM 216 Business Statistics

COMM SCI 205 Social Science Statistics (Students are strongly encouraged to take this)

MATH 260 Introductory Statistics

**Human Behavior (choose one course):**

FNS 224 First Nations and The Sacred

FNS 225 Introduction to First Nations Studies: The Tribal World

HUM BIOL 206 Fertility, Reproduction, and Family Planning <sup>1</sup>

HUM BIOL 324 The Biology of Women <sup>1</sup>

HUM DEV 331 Infancy and Early Childhood <sup>2</sup>

HUM DEV 332 Middle Childhood and Adolescence <sup>2</sup>

HUM DEV 336 Gender Development Across the Lifespan <sup>1</sup>

HUM DEV 342 Cross Cultural Human Development

HUM DEV 343 Adulthood and Aging

HUM DEV 346 Culture, Development and Health

PSYCH 401 Psychology of Women <sup>1</sup>

PSYCH 417 Psychology of Cognitive Processes

PSYCH 435 Abnormal Psychology

SOC WORK 250 You and Your Future: Living and Working in an Aging Society

**Government (choose one course):**

POL SCI 101 American Government and Politics

or POL SCI 202 Introduction to Public Policy

**Social Environmental Challenges (choose one course):**

DJS 348 Gender and the Law <sup>1</sup>

DJS 371 Gender and Economic Justice <sup>1</sup>

FNS 226 Introduction to First Nations Studies: Social Justice

FNS 360 Women and Gender in First Nations Communities <sup>1</sup>

PSYCH 390 Environmental Psychology

SOCIOL 310 Urban Sociology

UR RE ST 205 Urban Social Problems

UR RE ST 305 Urban Politics and Policy

UR RE ST 312 Community Politics

UR RE ST 341 The City and its Regional Context

UR RE ST 342 Community Economic Development

**Social Theory (choose one course):**

DJS 204 Freedom and Social Control

DJS 241 Introduction to Women's & Gender Studies <sup>1</sup>

DJS 325 Law and Society

DJS 362 Power and Change in America

DJS 437 Feminist Theory <sup>1</sup>

FNS 385 Perspectives on Human Values: First Nations

FNS 392 First Nations Justice and Tribal Governments

PSYCH 330 Social Psychology

SOCIOL 202	Introduction to Sociology	
<b>Women's Studies (choose one course):</b>		
One Women's and Gender Studies course required. Courses listed above that are associated with Footnote 1 or any course with a WOST prefix may be used to satisfy this requirement.		
<b>Upper-Level Courses</b>		<b>38</b>
SOC WORK 300	Field Experience in a Human Service Agency	
SOC WORK 305	The Social Work Profession	
SOC WORK 313	Social Work Skills Lab I	
SOC WORK 323	Social Work Skills Lab II	
SOC WORK 370	Social Work Methods I	
SOC WORK 371	Human Behavior and the Social Environment	
SOC WORK 402	Field Practicum I <sup>3</sup>	
SOC WORK 403	Field Practicum II <sup>3</sup>	
SOC WORK 411	Social Work Methods II	
SOC WORK 413	Social Work Skills Lab III	
SOC WORK 420	Social Work Methods III	
SOC WORK 423	Social Work Skills Lab IV	
SOC WORK 431	Social Policy Analysis I	
SOC WORK 433	Social Policy Analysis II	
SOC WORK 461	Program Evaluation I	
SOC WORK 463	Program Evaluation II	
Total Credits		72-75

<sup>1</sup> May be used to satisfy the Women's Studies requirement.

<sup>2</sup> These courses cannot be used as a Human Behavior Course if in the Child Welfare Emphasis.

<sup>3</sup> To qualify for the Child Welfare Emphasis, these courses must involve practicum placement in an agency that serves children and families.

## Sociology

Disciplinary Minor (p. 60)

**Professors** – Ray Hutchison, Harvey J. Kaye

**Associate Professor** – Andrew Austin (chair)

Sociology is the systematic study of social organization and social life. Sociologists use scientific and humanistic approaches to explain and understand social behavior and social systems. Topics include family, crime and punishment, gender, race and ethnicity, social class, collective behavior, and power.

Sociology students learn a variety of research methods (such as ethnography and survey research) and social theories that may be used to study both large-scale and small-scale patterns of social relationships, as well as the processes by which these patterns change. A minor in Sociology will provide additional breadth of perspective for students with interdisciplinary majors in Urban and Regional Studies, Democracy and Justice Studies, Human Development, and Business Administration. It also provides good preparation for students going on to graduate work in programs such as sociology, social work, history, urban studies, and other interdisciplinary social science programs.

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

- Sociology Minor (p. 222)

## Sociology Minor

**This disciplinary minor also requires:**

- Completion of an interdisciplinary major (p. 58)

**Supporting Courses**

MATH 260	Introductory Statistics	
SOCIOL 202	Introduction to Sociology	

Upper-Level Courses		12
COMM SCI 301	Foundations for Social Research	
SOCIOL 307	Social Theory	
<b>Choose two of the following Elective courses:</b>		
DJS 362	Power and Change in America	
SOCIOL 303	Race and Ethnic Relations	
SOCIOL 304	Deviant Behavior	
SOCIOL 308	Sociology of the Family	
SOCIOL 310	Urban Sociology	
SOCIOL 315	Street Gangs in America	
SOCIOL 404	Criminology	
SOCIOL 498	Independent Study	
Total Credits		19

## Spanish and Latin American Studies

Disciplinary Major or Minor (p. 60)  
(Bachelor of Arts)

**Professor** – Cristina Ortiz (chair)

**Associate Professors** – Hernan Fernandez-Meardi, Gabriel Saxton-Ruiz

**Lecturer** – Isabel Iglesias

The Spanish and Latin American Studies program provides students with communication skills in both written and spoken Spanish and gives them an understanding of and appreciation for the peoples, literatures, and cultures of Spain and Latin America. Stronger ties with the Spanish-speaking world and the growing number of Spanish-speakers in the United States have significantly increased the need for teachers and speakers of Spanish.

Although some students choose to study Spanish primarily for personal growth and intellectual enrichment, graduates in Spanish and Latin American Studies have found satisfying careers in teaching, international business, translating and interpreting, personnel work, public relations, business management, social work, government service, and other fields. The Spanish and Latin American Studies major is also excellent preparation for graduate study. Proficiency in a foreign language and understanding of other cultures are essential for peace and prosperity in an interdependent world.

Learning a new language is a life-long endeavor, only part of which can be accomplished in the classroom. All students of Spanish and Latin American Studies are strongly encouraged to pursue the opportunities faculty provide for travel and study in Spain, Mexico, Guatemala, and South America. Additionally, ways exist to interact with the Hispanic community of Green Bay. A language laboratory with interactive audio equipment, computers, and international television reception helps language learning and cultural awareness. Spanish conversation groups meet periodically to offer the opportunity to practice the language. Students are encouraged to become members of the student-led Spanish Club.

Students majoring in Spanish and Latin American Studies will also choose an interdisciplinary minor. Students interested in the humanities usually choose the interdisciplinary program in Humanistic Studies; students interested in the arts or the performing arts usually choose Design Arts or Arts Management. Depending on their preferences and goals, students may find other interdisciplinary programs appropriate, such as Human Development or Democracy and Justice Studies. Students desiring teacher preparation in Spanish must combine their studies in Spanish with the secondary Education minor.

Students who begin Spanish and Latin American Studies study at UW-Green Bay should enroll in SPANISH 101. Students with previous Spanish should select a course appropriate to their level by counting a year of high school work as equivalent to a semester of college work, or consult the Spanish and Latin American Studies adviser. If more than two semesters have elapsed between your high school Spanish classes and when you will be enrolling in college Spanish courses, you are required to take the UW placement test for appropriate placement.

Students seeking teacher certification must be admitted to the Education Program and should contact the Education Office for information and further requirements.

The following is required of all students seeking teacher certification in Spanish and Latin American Studies:

- An oral proficiency exam must be successfully completed before student can be approved for student teaching.
- Student is required to spend an appropriate period of time in a country where Spanish is spoken or participate in an approved immersion program.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

## Retroactive Credit

**Degree seeking** students who have taken a second language in high school or who have acquired knowledge of a second language elsewhere may earn up to 14 additional credits for their previous language study by completing a foreign language course beyond the 101 level. With a grade of “B” or better, credit will be given in that language for all of the courses in that language preceding the one in which the student has enrolled, to a maximum of 14 credits; with a grade of “BC” or “C,” half credit will be given for the courses preceding the one in which the student has enrolled, to a maximum of seven credits.

For example, with four years of high school Spanish, students who complete SPANISH 225, with a grade of “B” will receive 14 retroactive credits for SPANISH 101, SPANISH 102, SPANISH 201, and SPANISH 202 in addition to the three credits for SPANISH 225; students who complete the course with a “C” will receive seven retroactive credits for SPANISH 101 (2 of the total 4 credits), SPANISH 102 (2 of the total 4 credits), SPANISH 201 (1.5 of the total 3 credits), and SPANISH 202 (1.5 of the total 3 credits).

Requests for retroactive credit in a student’s native language are not generally accepted.

**To determine eligibility for retroactive credit, students must consult with the appropriate language program chair or course instructor who will advise them regarding which foreign language course they should take. If a student meets the criteria above, the course instructor must complete the Retroactive Credit Form and submit it to the Registrar’s Office. The appropriate courses and corresponding credits will then be recorded on the student’s transcript.**

Retroactive credit will not be awarded based on a student’s performance on any sort of test. This includes, but is not limited to, AP, CLEP, or Challenge exams. Retroactive foreign language credits may only be earned by satisfactorily passing a course at UW-Green Bay or through an approved CCHS program as described above.

Retroactive credits earned at any UW System institution or from St. Norbert College courses will be honored and granted to transfer students. Retroactive foreign language credits awarded by other institutions will not be granted to students who transfer to UW-Green Bay. Students may request an exception to this policy by submitting a written appeal to the language coordinator of the department they wish to receive credit from.

If you’re repeating a course, contact the Spanish and Latin American Studies program chair for further information on retroactive credits.

### **This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- Spanish and Latin American Studies Emphasis (p. 224)
- Spanish and Latin American Studies Emphasis for Students Seeking Teaching Certification (p. 225)

### **This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

Completion of one of the following areas of emphasis:

- Spanish and Latin American Studies Emphasis (p. 226)
- Spanish and Latin American Studies Emphasis for Students Seeking Teaching Certification (p. 227)

## Spanish and Latin American Studies

### **This disciplinary major also requires:**

Completion of an interdisciplinary major or minor (p. 58)

Completion of one of the following areas of emphasis:

- Spanish and Latin American Studies Emphasis (p. 224)
- Spanish and Latin American Studies Emphasis for Students Seeking Teaching Certification (p. 225)

## Spanish and Latin American Studies Emphasis

### **This disciplinary emphasis also requires:**

- Completion of an interdisciplinary major or minor (p. 58)

### **Supporting Courses**

SPANISH 225

Composition and Conversation I



SPANISH 226	Composition and Conversation II	
<b>Upper-Level Courses</b>		<b>24</b>
SPANISH 328	Introduction to Cultural Studies in Spanish	
SPANISH 329	Representative Spanish and Latin American Authors	
SPANISH 345	Advanced Spanish Grammar	
SPANISH 438	Major Spanish and Latin American Writer(s) <sup>1</sup>	
SPANISH 358	Latin America Today	
or SPANISH 359	The Cultures of the Americas	
SPANISH 360	Spain Today	
or SPANISH 361	The Cultures of Spain	
<b>Elective Courses (choose 6 credits of the following):</b>		
SPANISH 351	Major Spanish and Latin American Fiction	
SPANISH 355	Spanish and Latin American Cinema	
SPANISH 357	Cultura Latina	
SPANISH 358	Latin America Today	
SPANISH 359	The Cultures of the Americas	
SPANISH 360	Spain Today	
SPANISH 361	The Cultures of Spain	
SPANISH 372	Spanish Phonetics	
SPANISH 465	Special Topics <sup>1</sup>	
SPANISH 485	Study Abroad:Spain and Latin America	
SPANISH 498	Independent Study	
SPANISH 499	Travel Course	
Total Credits		<b>30</b>

<sup>1</sup> Some upper-level courses are repeatable for credit when topic varies.

## Spanish and Latin American Studies Emphasis for Students Seeking Teaching Certification

This disciplinary emphasis also requires:

- Admission to the Education Program.
- Completion of the minor in Secondary Education.
- An oral proficiency exam successfully completed before student can be approved for student teaching.
- Student is required to spend an appropriate period of time in a country where Spanish is spoken or participate in an approved immersion program.

<b>Supporting Courses</b>		<b>6</b>
SPANISH 225	Composition and Conversation I	
SPANISH 226	Composition and Conversation II	
<b>Upper-Level Courses</b>		<b>27</b>
EDUC 311	Teaching Foreign Languages	
SPANISH 328	Introduction to Cultural Studies in Spanish	
SPANISH 329	Representative Spanish and Latin American Authors	
SPANISH 345	Advanced Spanish Grammar	
SPANISH 372	Spanish Phonetics	
SPANISH 358	Latin America Today	
or SPANISH 359	The Cultures of the Americas	
SPANISH 360	Spain Today	
or SPANISH 361	The Cultures of Spain	
<b>Choose 6 credits of the following courses:</b>		
SPANISH 351	Major Spanish and Latin American Fiction	
SPANISH 355	Spanish and Latin American Cinema	

SPANISH 357	Cultura Latina
SPANISH 438	Major Spanish and Latin American Writer(s) <sup>1</sup>
SPANISH 465	Special Topics <sup>1</sup>
SPANISH 485	Study Abroad:Spain and Latin America
SPANISH 498	Independent Study
SPANISH 499	Travel Course

Total Credits

33

<sup>1</sup> Some upper-level courses are repeatable for credit when topic varies.

## Spanish and Latin American Studies Minor

**This disciplinary minor also requires:**

Completion of an interdisciplinary major (p. 58)

Complete requirements in one of the following areas of emphasis:

- Spanish and Latin American Studies Emphasis (p. 226)
- Spanish and Latin American Studies Emphasis for Students Seeking Teaching Certification (p. 227)

## Spanish and Latin American Studies Emphasis

**This disciplinary emphasis also requires:**

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

6

SPANISH 225	Composition and Conversation I
SPANISH 226	Composition and Conversation II

### Upper-Level Courses

12

SPANISH 328	Introduction to Cultural Studies in Spanish
SPANISH 329	Representative Spanish and Latin American Authors

**Choose 3 credits of the following courses:**

SPANISH 358	Latin America Today
SPANISH 359	The Cultures of the Americas
SPANISH 360	Spain Today
SPANISH 361	The Cultures of Spain

**Choose 3 credits of the following courses:**

SPANISH 345	Advanced Spanish Grammar
SPANISH 351	Major Spanish and Latin American Fiction
SPANISH 355	Spanish and Latin American Cinema
SPANISH 357	Cultura Latina
SPANISH 358	Latin America Today
SPANISH 359	The Cultures of the Americas
SPANISH 360	Spain Today
SPANISH 361	The Cultures of Spain
SPANISH 372	Spanish Phonetics
SPANISH 465	Special Topics <sup>1</sup>
SPANISH 499	Travel Course

Total Credits

18

<sup>1</sup> Some upper-level courses are repeatable for credit when topic varies.

# Spanish and Latin American Studies Emphasis for Students Seeking Teaching Certification

This disciplinary emphasis also requires:

- Admission to the Education Program
- Completion of the major in Education
- An oral proficiency exam successfully completed before student can be approved for student teaching.
- Student is required to spend an appropriate period of time in a country where Spanish is spoken or participate in an approved immersion program.

## Supporting Courses

6

SPANISH 225	Composition and Conversation I
SPANISH 226	Composition and Conversation II

## Upper-Level Courses

18

EDUC 311	Teaching Foreign Languages
SPANISH 328	Introduction to Cultural Studies in Spanish
SPANISH 329	Representative Spanish and Latin American Authors
SPANISH 345	Advanced Spanish Grammar
SPANISH 372	Spanish Phonetics

### Choose 3 credits of the following courses:

SPANISH 357	Cultura Latina
SPANISH 358	Latin America Today
SPANISH 359	The Cultures of the Americas
SPANISH 360	Spain Today
SPANISH 361	The Cultures of Spain
SPANISH 465	Special Topics <sup>1</sup>
SPANISH 485	Study Abroad:Spain and Latin America

Total Credits

24

<sup>1</sup> Some upper-level courses are repeatable for credit when topic varies.

## Theatre and Dance

Interdisciplinary Major or Minor (p. 58)

Disciplinary Minor (p. 60)

(Bachelor of Arts)

**Professors** – Jeffrey Entwistle, Laura Riddle (chair)

**Associate Professors** – R. Michael Ingraham, Kaoime Malloy, John Mariano

**Lecturer** – Denise Carlson-Gardner

Students pursuing the bachelor's degree in Theatre will choose one of four areas of emphasis:

- Performance
- Design/Technical Theatre
- Musical Theatre
- Theatre Studies

Each emphasis provides a rigorous artistic/academic environment for the study and production of all forms of theatre. Techniques learned in the classroom are applied in production work giving students an abundance of practical experience. Each year a combination of classic, modern, experimental, musical theatre and dance pieces are selected to give students a diverse background in dramatic literature and styles.

The interdisciplinary focus of the University is an ideal setting for the highly collaborative study and practice of theatre. Many of our productions involve collaborations with University academic programs and student or community organizations.

Theatre faculty members at UW-Green Bay believe that the best way to learn theatre is to create theatre. Students are encouraged to participate in the five mainstage (faculty or guest artist directed and designed) productions each year. Studio (student directed and designed) productions provide additional opportunities for involvement. University Theatre production work is open to all students and practicum credit is available for work on

mainstage productions. The Theatre program is an active participant in the Kennedy Center's American College Theatre Festival ([http://www.kcactf.org/KCACTF.ORG\\_NATIONAL/KCACTF.html](http://www.kcactf.org/KCACTF.ORG_NATIONAL/KCACTF.html)), a national organization in support of excellence in university theatre.

Campus facilities in Theatre Hall include the 450-seat proscenium University Theatre, design classroom, acting and dance studios, a CAD design lab and scene and costume shops. The Weidner Center for the Performing Arts (<http://www.weidnercenter.com>) includes as additional performing arts spaces the 2,000-seat Cofrin Family Hall and Jean Weidner Theatre, a 90-seat flexible performance and classroom space.

Students receive quality training from working professionals enhanced by guest artists, master classes, and a biannual travel course to Broadway. Alternate Theatre, the student theatre organization, sponsors trips to regional theatres, and on-campus or local seminars and workshops.

UW-Green Bay Theatre graduates typically pursue internships and jobs in the entertainment industry. Students are encouraged to pursue such opportunities in the summers before graduation and advanced course work in audition and portfolio prepares them for the competitive challenges ahead.

## Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Design/Technical Theatre (p. 229)
- Musical Theatre (p. 230)
- Performance (p. 231)
- Theatre Studies (p. 232)
- Dance Minor (p. 228)
- Theatre Studies Minor (p. 233)

## Dance Minor

**This disciplinary minor also requires:**

- Completion of an interdisciplinary major (p. 58)

### Supporting Courses

14

THEATRE 110	Introduction to Theatre Arts
THEATRE 128	Jazz Dance I
THEATRE 137	Ballet I
THEATRE 141	Period Dance Styles
THEATRE 142	American Musical Theatre Dance
THEATRE 145	Modern Dance I
THEATRE 161	Tap Dance I
THEATRE 228	Jazz Dance II
<b>Electives (choose 3 credits):</b>	
THEATRE 131	Acting I
THEATRE 220	Stage Management
THEATRE 261	Tap Dance II

### Upper-Level Courses

9

THEATRE 340	Dance History
THEATRE 440	Choreography
<b>Electives (choose 3 credits)</b>	
THEATRE 323	Stage Lighting
THEATRE 325	Stage Makeup
THEATRE 328	Jazz Dance III
THEATRE 335	Production Practicum: Crews
THEATRE 336	Production Practicum: Performance
THEATRE 338	Production Practicum: Scene Shop
THEATRE 339	Production Practicum: Costume Shop
THEATRE 361	Tap Dance III

Total Credits

23

# Theatre Major

Students must complete requirements in one of the following areas of emphasis:

- Design/Technical Theatre (p. 229)
- Musical Theatre (p. 230)
- Performance (p. 231)
- Theatre Studies (p. 232)

## Design/Technical Theatre Emphasis

### Supporting Courses

25

<b>Design/Technical Theatre</b>	
THEATRE 220	Stage Management
THEATRE 221	Stagecraft
THEATRE 222	Costume Technology
THEATRE 223	Computer Applications for Theatre
THEATRE 224	Introduction to Theatre Design
<b>Acting Core</b>	
THEATRE 131	Acting I
<b>Dance Core (choose one of the following):</b>	
THEATRE 128	Jazz Dance I
THEATRE 137	Ballet I
THEATRE 145	Modern Dance I
THEATRE 161	Tap Dance I
<b>Performance Elective (choose 4 credits):</b>	
THEATRE 128	Jazz Dance I
THEATRE 137	Ballet I
THEATRE 138	Ballet II
THEATRE 141	Period Dance Styles
THEATRE 142	American Musical Theatre Dance
THEATRE 145	Modern Dance I
THEATRE 161	Tap Dance I
THEATRE 228	Jazz Dance II
THEATRE 231	Acting II
THEATRE 233	Voice for the Actor I
THEATRE 261	Tap Dance II
THEATRE 328	Jazz Dance III
THEATRE 361	Tap Dance III

### Upper-Level Courses

31

<b>Design/technical theatre/directing</b>	
THEATRE 321	Scene Design
THEATRE 322	Costume Design
THEATRE 323	Stage Lighting
THEATRE 351	Directing I
<b>History/Literature</b>	
THEATRE 309	Theatre History I: Greek to Elizabethan
THEATRE 310	Theatre History II: 17th Century to Realism
THEATRE 311	Theatre History III: 20th Century and Contemporary
<b>Shop practicum (choose 4 credits):</b>	
THEATRE 338	Production Practicum: Scene Shop (may be repeated)
THEATRE 339	Production Practicum: Costume Shop (may be repeated)
<b>Theatre practicum (choose 2 courses):</b>	

THEATRE 335	Production Practicum: Crews
THEATRE 336	Production Practicum: Performance
THEATRE 338	Production Practicum: Scene Shop
THEATRE 339	Production Practicum: Costume Shop
<b>Electives (choose 3 credits):</b>	
THEATRE 325	Stage Makeup
THEATRE 340	Dance History
THEATRE 421	Scene Painting
THEATRE 422	Costume Crafts
THEATRE 423	Advanced Stage Lighting
THEATRE 426	Sound for Theatre
THEATRE 497	Internship
THEATRE 498	Independent Study
<hr/>	
Total Credits	56

## Musical Theatre Emphasis

<b>Supporting Courses</b>	35
<b>Music Core</b>	
MUSIC 115	Ear Training and Sight Singing I
MUSIC 151	Music Theory I
<b>Elementary Voice</b>	
MUS APP 45	Elementary Voice I
<b>Chorus or Choir (choose 1 course):</b>	
MUS ENS 261	Concert Choir
or MUS ENS 262	Chorale
MUS ENS 262	Chorale
<b>Music Ensemble (choose 1 course):</b>	
MUS ENS 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera Studio
MUS ENS 261	Concert Choir
MUS ENS 262	Chorale
<b>Keyboard Proficiency (choose 2 credits):</b>	
MUS APP 11	Keyboard Musicianship I
MUS APP 21	Keyboard Musicianship II
MUS APP 31	Keyboard Musicianship III
MUS APP 41	Keyboard Musicianship IV
<b>Acting/Voice Core</b>	
THEATRE 131	Acting I
THEATRE 190	First Year Applied Musical Theatre Voice
THEATRE 231	Acting II
THEATRE 233	Voice for the Actor I
THEATRE 289	Second Year Applied Musical Theatre Voice I
THEATRE 290	Second Year Applied Musical Theatre Voice II
<b>Dance Core</b>	
THEATRE 128	Jazz Dance I
THEATRE 161	Tap Dance I
THEATRE 228	Jazz Dance II
THEATRE 261	Tap Dance II
<b>Dance Elective (choose 1 course):</b>	
THEATRE 137	Ballet I

THEATRE 141	Period Dance Styles
THEATRE 142	American Musical Theatre Dance
<b>Technical Theatre Core</b>	
THEATRE 221	Stagecraft
THEATRE 222	Costume Technology
<b>Upper-Level Courses</b>	29
<b>Acting/Voice/Directing</b>	
THEATRE 305	Audition Techniques for the Actor
THEATRE 351	Directing I
THEATRE 389	Third Year Applied Musical Theatre Voice I
THEATRE 390	Third Year Applied Musical Theatre Voice II
THEATRE 489	Fourth Year Applied Musical Theatre Voice I
THEATRE 490	Fourth Year Applied Musical Theatre Voice II
<b>Dance</b>	
THEATRE 328	Jazz Dance III
THEATRE 361	Tap Dance III
THEATRE 440	Choreography
<b>Theatre History/Literature</b>	
THEATRE 311	Theatre History III: 20th Century and Contemporary
MUSIC 364	Musical Theatre History
THEATRE 309	Theatre History I: Greek to Elizabethan
or THEATRE 310	Theatre History II: 17th Century to Realism
<b>Shop Practicum</b>	
<b>Select four credits from the following:</b>	
THEATRE 338	Production Practicum: Scene Shop (may be repeated)
THEATRE 339	Production Practicum: Costume Shop (may be repeated)
Total Credits	64

## Performance Emphasis

<b>Supporting Courses</b>	24
<b>Acting Core</b>	
THEATRE 131	Acting I
THEATRE 231	Acting II
THEATRE 233	Voice for the Actor I
<b>Technical Theatre</b>	
THEATRE 221	Stagecraft
THEATRE 222	Costume Technology
<b>Dance Core</b>	
THEATRE 128	Jazz Dance I
THEATRE 137	Ballet I
THEATRE 145	Modern Dance I
THEATRE 161	Tap Dance I
<b>Dance Electives (choose 3 credits):</b>	
THEATRE 128	Jazz Dance I
THEATRE 137	Ballet I
THEATRE 138	Ballet II
THEATRE 141	Period Dance Styles
THEATRE 142	American Musical Theatre Dance
THEATRE 145	Modern Dance I
THEATRE 161	Tap Dance I
THEATRE 228	Jazz Dance II

THEATRE 261	Tap Dance II	
<b>Upper-Level Courses</b>		30
<b>History/Literature</b>		
THEATRE 309	Theatre History I:Greek to Elizabethan	
THEATRE 310	Theatre History II: 17th Century to Realism	
THEATRE 311	Theatre History III: 20th Century and Contemporary	
<b>Acting/Directing</b>		
THEATRE 305	Audition Techniques for the Actor	
THEATRE 331	Acting III	
THEATRE 351	Directing I	
<b>Shop Practicum (choose 4 credits from the following):</b>		
THEATRE 338	Production Practicum: Scene Shop (may be repeated)	
THEATRE 339	Production Practicum: Costume Shop (may be repeated)	
<b>Theatre Practicum (choose 2 of the following):</b>		
THEATRE 335	Production Practicum: Crews	
THEATRE 336	Production Practicum: Performance	
THEATRE 338	Production Practicum: Scene Shop	
THEATRE 339	Production Practicum: Costume Shop	
<b>Electives (choose 6 credits from the following):</b>		
THEATRE 325	Stage Makeup	
THEATRE 333	Voice for the Actor II	
THEATRE 352	Directing II	
Any 300 or 400 level THEATRE course		
Total Credits		54

## Theatre Studies Emphasis

<b>Supporting Courses</b>		23
THEATRE 131	Acting I	
THEATRE 220	Stage Management	
THEATRE 221	Stagecraft	
THEATRE 222	Costume Technology	
THEATRE 231	Acting II	
<b>Dance core (3 credits required):</b>		
THEATRE 128	Jazz Dance I	
THEATRE 137	Ballet I	
THEATRE 141	Period Dance Styles	
THEATRE 145	Modern Dance I	
THEATRE 161	Tap Dance I	
<b>Elective (choose 3 credits):</b>		
ARTS MGT 256	Understanding the Arts	
THEATRE 219	UWGB Meets NYC: New York Theatre Trip	
THEATRE 223	Computer Applications for Theatre	
THEATRE 224	Introduction to Theatre Design	
THEATRE 233	Voice for the Actor I	
THEATRE 298	Independent Study	
<b>Upper-Level Courses</b>		27
<b>History/Literature</b>		
THEATRE 309	Theatre History I:Greek to Elizabethan	
THEATRE 310	Theatre History II: 17th Century to Realism	
THEATRE 311	Theatre History III: 20th Century and Contemporary	
<b>Directing</b>		



THEATRE 351	Directing I
<b>Shop Practicum (4 credits required):</b>	
THEATRE 338	Production Practicum: Scene Shop (may be repeated)
THEATRE 339	Production Practicum: Costume Shop (may be repeated)
<b>Theatre Practicum (choose 2 courses):</b>	
THEATRE 335	Production Practicum: Crews
THEATRE 336	Production Practicum: Performance
THEATRE 338	Production Practicum: Scene Shop
THEATRE 339	Production Practicum: Costume Shop
<b>Design/technical theatre (choose one course):</b>	
THEATRE 323	Stage Lighting
THEATRE 325	Stage Makeup
THEATRE 421	Scene Painting
THEATRE 422	Costume Crafts
THEATRE 426	Sound for Theatre
<b>Electives</b>	
Select six credits from any 300 or 400 level THEATRE courses	
Total Credits	50

## Theatre Minor

- Dance Minor (p. 228)
- Theatre Studies Minor (p. 233)

## Theatre Studies Minor

<b>Supporting Courses</b>	11
<b>Acting and Technical</b>	
THEATRE 131	Acting I
THEATRE 221	Stagecraft
THEATRE 222	Costume Technology
<b>Upper-Level Courses</b>	13
<b>Required</b>	
THEATRE 351	Directing I
THEATRE 338	Production Practicum: Scene Shop
THEATRE 339	Production Practicum: Costume Shop
<b>Practicum Electives (choose 2 additional credits from the following):</b>	
THEATRE 335	Production Practicum: Crews
THEATRE 336	Production Practicum: Performance
THEATRE 338	Production Practicum: Scene Shop
THEATRE 339	Production Practicum: Costume Shop
<b>Electives (choose 6 credits):</b>	
Select from any 300- or 400-level THEATRE courses	
Total Credits	24

## Urban and Regional Studies

Interdisciplinary Major or Minor (p. 58)  
(Bachelor of Arts)

**Professors** – Ray Hutchison, Kumar Kangayappan

**Associate Professors** – Marcelo Cruz, Thomas Nessler (chair)

Urban and Regional Studies develops individuals who want to make a difference in their community: a difference in what happens to older neighborhoods in transition, a difference in what happens as new suburban communities are planned and built, a difference in the lives and well-being of

persons across metropolitan and rural regions. It offers undergraduates an opportunity to become familiar with concepts that will be useful whether they become community organizers, lawyers, city or regional planners, architects, teachers, economic development specialists, journalists, city managers, or enter careers in business and real estate.

Urban and Regional Studies offers students an opportunity to develop the insight, knowledge, and technical skills needed to deal effectively with the far-reaching challenges of contemporary urban society. It prepares students to become educated world citizens through a solid foundation of core courses emphasizing skills and tool subjects, broad introductory courses at the freshman and sophomore level, and more demanding courses at the junior and senior level which explores topics at a greater depth.

Faculty bring together urban and regional perspectives from a variety of disciplines, including economics, ethnic studies, physical and human geography, political science, and sociology. Urban and Regional Studies faculty have traveled widely and have lived and conducted research in many countries outside of the United States. In addition to teaching in the program, faculty are active in applied work in Northeast Wisconsin, working with community and grass-roots organizations, participating in city and county task forces and planning committees, and consulting for government and international agencies.

Students should meet with the faculty adviser in Urban and Regional Studies to discuss their academic and career interests. Students are encouraged to select courses which emphasize particular areas within the program, including community economic development, ethnic studies, and urban and regional planning. Internships in this program are especially encouraged, as are applied research projects in the Urban and Regional Studies laboratory and in independent study courses, as well. Internship experiences have proven to be an important enhancement to graduate school applications, and they also increase opportunities for employment after graduation.

This interdisciplinary major also provides excellent preparation for graduate study in master's and doctoral programs such as architecture, geography, political science, public administration, public policy, sociology, urban and regional planning, urban studies, economic development and related fields.

Urban and Regional Studies majors are encouraged to enroll in travel and study abroad programs. The department offers travel courses to Italy, the Ecuadorean Andes and Amazon, and the Galapagos Islands. These travel courses are developed with Urban and Regional Studies students in mind. For more information, please contact Urban and Regional Studies faculty directly, and or see the Urban and Regional Studies website. Students may study abroad (for semester or year long) or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and the National Student Exchange. For more information on these programs contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

- Urban and Regional Studies Major (p. 234)
- Urban and Regional Studies Minor (p. 235)

## Urban and Regional Studies Major

### Supporting Courses

16

COMM 133	Fundamentals of Public Address
ENG COMP 105	Expository Writing
GEOG 250	Displays of Geographic Information
MATH 260	Introductory Statistics
UR RE ST 100	Introduction to Urban Studies

### Upper-Level Courses

27

<b>Core Courses</b>	
UR RE ST 310	Urban Sociology
UR RE ST 312	Community Politics
UR RE ST 341	The City and its Regional Context
UR RE ST 431	Seminar in Urban and Regional Studies
<b>Choose 15 credits from the following:</b> <sup>1</sup>	
GEOG 370	Geography of South America
PSYCH 390	Environmental Psychology
UR RE ST 305	Urban Politics and Policy
UR RE ST 309	Urban and Regional Economics
UR RE ST 313	The City Through Time and Space
UR RE ST 315	Street Gangs in America
UR RE ST 320	Cities in Cinema
UR RE ST 323	Asian American Communities in the United States
UR RE ST 324	Latino Communities in the United States
UR RE ST 340	Economics of Land Use

UR RE ST 342	Community Economic Development
UR RE ST 351	Transportation and the City
UR RE ST 360	GIS and the Urban World
UR RE ST 392	Analysis of South Asia
UR RE ST 412	Urban and Regional Planning
UR RE ST 461	Special Topics in Urban and Regional Studies
UR RE ST 497	Internship
UR RE ST 498	Independent Study
UR RE ST 499	Travel Course
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Total Credits	43

<sup>1</sup> Internship or lab course credit may be substituted for one of the courses with approval of adviser.

## Urban and Regional Studies Minor

<b>Supporting Courses</b>	10
UR RE ST 100	Introduction to Urban Studies
GEOG 250	Displays of Geographic Information
MATH 260	Introductory Statistics
<b>Upper-Level Courses</b>	15
<b>Choose two of the following core courses:</b>	
UR RE ST 310	Urban Sociology
UR RE ST 312	Community Politics
UR RE ST 341	The City and its Regional Context
<b>Choose three of the following electives:</b>	
UR RE ST 305	Urban Politics and Policy
UR RE ST 309	Urban and Regional Economics
UR RE ST 313	The City Through Time and Space
UR RE ST 315	Street Gangs in America
UR RE ST 323	Asian American Communities in the United States
UR RE ST 324	Latino Communities in the United States
UR RE ST 340	Economics of Land Use
UR RE ST 342	Community Economic Development
UR RE ST 351	Transportation and the City
UR RE ST 360	GIS and the Urban World
UR RE ST 370	Geography of South America
UR RE ST 392	Analysis of South Asia
UR RE ST 412	Urban and Regional Planning
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Total Credits	25

## Women's and Gender Studies

Interdisciplinary Minor (p. 58)

**Professors** – Illene Cupit, Heidi Fencl, Sarah Meredith Livingston, Laura Riddle

**Associate Professors** – Andrew Austin, Kathleen Burns, Alison Gates, Stefan Hall, Doreen Higgins, Rebecca Meacham, Daniel Meinhardt, Lisa Poupart, Deirdre Radosevich, Jolanda Sallmann, Christine Smith (chair), Kristin Vespia, Le Zhu

**Assistant Professors** – Bryan Carr, Kristine Coulter, Yunsun Huh, Joel Muraco, Kimberley Reilly, Alison Staudinger

Women's and Gender Studies explores women's past and present contributions to societies as persons, creators and thinkers. It also explores the cultural, racial, and economic diversity of women's experiences as well as the scholarship concerned with the factors that affect women's and men's lives. The minor prepares students to think critically about issues with which they will be faced all of their lives. Thus, Women's and Gender Studies is an essential component of a liberal arts education.

Women's and Gender Studies draws upon methods and content from a wide range of disciplines, including anthropology, literature and the arts, biology, economics, history, political science, psychology, religion and sociology. It seeks to extend students' intellectual development by helping them to understand women's accomplishments and capabilities, and by looking beyond the limits of traditional gender-differentiated roles.

Any student may elect Women's and Gender Studies as a minor in addition to a disciplinary or interdisciplinary major. The minor is excellent preparation for further study in law as well as for graduate programs in women's studies, psychology, social work, literature and education. Graduates with Women's and Gender Studies minors are working in a variety of fields, including business, child and family services, education, journalism and social service administration.

- Women's and Gender Studies Minor (p. 236)

## Women's and Gender Studies Minor

### Supporting Courses

3

DJS/WOST 241	Introduction to Women's & Gender Studies
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### Upper-Level Courses

15

#### Choose 2 of the following Core Courses:

DJS/WOST 437	Feminist Theory
HISTORY/WOST 380	U.S. Women's History
HUM DEV/WOST 336	Gender Development Across the Lifespan

#### Choose 3 courses from the Core Courses listed above or from the following Elective Courses: <sup>1</sup>

WOST/HUM BIOL 324	The Biology of Women
WOST/DJS 348	Gender and the Law
WOST 350	Topics in Women's Studies
WOST/FNS 360	Women and Gender in First Nations Communities
WOST/HISTORY 370	History of Sexuality in the U.S.
WOST/DJS 375	Gender and Global Justice
WOST/ART 379	Women, Art and Image
WOST/PSYCH 401	Psychology of Women
WOST 497	Internship
WOST 498	Independent Study

Total Credits

18

- <sup>1</sup> If DJS 437 or WOST 437, HISTORY 380 or WOST 380, HUM DEV 336 or WOST 336 are selected and used to satisfy the two core course requirement, only the the single course left can be used to satisfy one of the elective course requirement. Example student completes 437 and 380, they can then use 336 for their elective.

## Preprofessional Programs and Certificates

### Preprofessional Programs of Study

- Overview (p. 237) – 'Programs' Rather than 'Majors'
- Dietetics (p. 237)
- Health Sciences (p. 241) – Dentistry, Medicine, Optometry, Physical Therapy, Physician Assistant, Chiropractic
- Engineering (p. 239)
- Law (p. 242)
- Nursing (p. 243)
- Pharmacy (p. 243)
- Veterinary Medicine (p. 246)

### Certificate Programs

- Emergency Management (<http://catalog.uwgb.edu/undergraduate/preprofessional-programs-certificates/emergencymanagement>)
- Environmental Sustainability and Business (p. 240)
- Military Science (p. 242)
- Nonprofit Management (p. 242)
- Physical Education (p. 244)

- Professional Accounting (p. 244)
- Teaching English as a Second Language (p. 245)

## Cooperative Programs

- Engineering (cooperative program with UW-Milwaukee) (p. 238)

## Overview of Preprofessional Programs

### 'Programs' Rather Than 'Majors'

UW-Green Bay provides excellent preparation for professional study in a variety of specialized fields.

This being the case, it is worth noting there are no separate listings in the majors-and-minors section of this catalog for pre-professional programs.

That is because UW-Green Bay avoids the designations pre-law, pre-med or "pre-anything" for specific undergraduate majors and minors. Instead, the institution encourages students to tailor their own preprofessional courses of study with the aid of knowledgeable academic advisers.

This puts the University in the higher education mainstream which holds that the best approach to preprofessional study involves flexibility.

For instance, while it is common to hear college students identify themselves as "pre-law," it typically means only that they plan to apply to a law school. Few universities anywhere offer an actual undergraduate major titled "pre-law." At those that do, the prescribed course of study represents only an opinion as to the most favored path; those most knowledgeable of law school admission practices maintain there is no such advantage.

Preparation for medical school admission is another example. A rigid menu of recommended courses might actually interfere with a student's ability to discover a special interest, excel and achieve academic distinction that otherwise would have enhanced his or her application for admission. In addition, most medical schools accept candidates from a relatively wide range of undergraduate majors. Preferred academic preparation will vary from school to school, and admissions board to admissions board.

In select fields of study, students may — through careful planning with the help of a knowledgeable adviser — develop a one-, two- or three-year course of study in preparation for transfer into a professional program. In many fields, however, the typical path involves choice of an appropriate undergraduate major and supporting courses, completion of a bachelor's degree, and pursuit of graduate-level studies.

It is important to remember that completion of any undergraduate program does not guarantee later admission to a professional school.

Admission to professional schools is competitive and is based upon a combination of requirements that includes grade point average, program-specific admission tests, letters of recommendation and, in many cases, related experience outside the classroom. It is a student's responsibility to contact the professional school for current information regarding requirements and application deadlines.

For more information about preprofessional programs of study at UW-Green Bay, contact the Academic Advising Office at 920-465-2362 or [advising@uwgb.edu](mailto:advising@uwgb.edu).

## Dietetics

UW-Green Bay offers attractive options for those interested in becoming dietetic professionals and practicing the science of nutritional services with a focus on health promotion and disease prevention.

Through its Human Biology academic program, the University offers an accredited didactic program in nutrition and dietetics as well as a dietetic internship.

To become a registered dietitian, a student must complete a minimum of a bachelor's degree including coursework accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. The accredited coursework in dietetics is what is known as the didactic program. After a student completes the didactic program, he or she needs to complete an ACEND-accredited supervised practice experience or, in other words, a dietetic internship. A supervised practice program is typically between six to twelve months in length. Completion of the practice program makes a student eligible to take the National Registration Examination for Dietitians administered by the Commission on Dietetic Registration.

Students who wish to participate in a dietetic internship program must apply to that program upon completion of the didactic program. Students who graduate from the didactic program at UW-Green Bay are eligible to apply to the dietetic internship program at UW-Green Bay or accredited, supervised practice programs offered elsewhere. It is the student's responsibility to contact each dietetic internship program for current requirements and application procedures. Most internship applications are due in February each year.

Course requirements for the didactic program in nutrition and dietetics at UW-Green Bay are located in this catalog under the Human Biology major.

# Emergency Management

Supporting Courses <sup>1</sup>		6
PU EN AF 215	Introduction to Public Administration	
<b>Choose one course:</b>		
POL SCI 101	American Government and Politics	
or PU EN AF 202	Introduction to Public Policy	
Upper Level Courses		18
PU EN AF 335	Principles and Practices of Emergency Management	
PU EN AF 336	Strategic Emergency Preparedness, Planning and Implementation	
PU EN AF 337	Disaster Response Operations and Management	
PU EN AF 338	Disaster Recovery	
PU EN AF 339	Political and Policy Dimensions of Emergency Management	
<b>Choose one course:</b>		
PU EN AF 315	Public and Non-Profit Management	
PU EN AF 378	Environmental Law	
PU EN AF 428	Public and Nonprofit Program Evaluation	
Total Credits		24

<sup>1</sup> **Recommended Course to complete: an introductory statistics class such as COMM SCI 205 or its equivalent.**

## Engineering (Cooperative Program with UWM)

### Cooperative Program with University of Wisconsin-Milwaukee

**Advisers** — John Katers, professor; Patricia A. Terry, professor and coordinator

**Website:** [www.uwgb.edu/nas/](http://www.uwgb.edu/nas/)

Engineers are professionals who apply mathematics, chemistry, physics, and engineering sciences to the study and design of systems for human use. Specific engineering fields include aerospace, chemical, civil and environmental, electrical and computer, industrial, materials, mechanical, petroleum and nuclear.

UW-Green Bay co-sponsors two programs with the University of Wisconsin-Milwaukee for students who seek careers in engineering. Engineering students may also apply for transfer to engineering programs in the state at UW-Madison, UW-Platteville, Marquette University and Milwaukee School of Engineering or other engineering programs outside of the state. It is important for all engineering students to contact an engineering adviser at UW-Green Bay in their freshman year.

### Engineering and NEW Program

UW-Green Bay co-sponsors a joint program with UW-Milwaukee called the Northeastern Wisconsin (NEW) Engineering Program, which allows students to begin their engineering studies at UW-Green Bay and complete them in the College of Engineering and Applied Sciences at UW-Milwaukee. Engineering and many general education courses at UW-Green Bay are recognized as equivalent to courses at UW-Milwaukee. Students who begin in engineering at UW-Green Bay and meet eligibility requirements are considered for admission into upper-level studies at UW-Milwaukee on the same basis as students who began at UW-Milwaukee.

UW-Milwaukee offers engineering degrees in civil/environmental, electrical, industrial, materials and mechanical engineering. Information on each of the majors can be found on the UW-Milwaukee website at [www.uwm.edu/CEAS/](http://www.uwm.edu/CEAS/) (<http://www.uwm.edu/CEAS/>).

### Dual Degree Program

UW-Green Bay and UW-Milwaukee also offer a Dual Degree Program in environmental science and environmental engineering. Under this program a student completes three years of study in the Environmental Science major at UW-Green Bay, then transfers to UW-Milwaukee and continues for two years in the civil/environmental engineering major. Upon completion of an outlined series of courses, the student receives both a B.S. degree from UW-Green Bay in Environmental Science and a B.S. degree from UW-Milwaukee in Civil/Environmental Engineering. Students wishing to enroll in this program should see an engineering adviser prior to registration in their freshman year.

Participants in the NEW Engineering Program typically complete 60 to 72 credits at UW-Green Bay toward the degree. This includes the completion of 18 credits of general education requirements specific to this program:

— 3 credits minimum in the arts

- 6 credits minimum in the humanities
- 6 credits minimum in the social sciences
- 3 credits in cultural diversity

General education courses are required of all students. These courses complement and enhance major coursework for additional exposure to other areas of knowledge and bring an understanding of the relationship among and between subject areas. At least 9 of the 18 required credits must be from courses at the 200-level or above or from 100-level courses that require at least one prerequisite.

A grade of C or better in ENG COMP 105 Expository Writing will satisfy UW-Milwaukee's English composition requirement.

UW-Green Bay students are eligible to apply for advancement into the major at UW-Milwaukee at the point of transfer. The UW-Green Bay Academic Advising Office has forms. The filing deadlines are October 1 for spring semester, February 15 for summer session, and June 1 for fall semester.

For information on other engineering options, refer to the Preprofessional Programs of Study section of this catalog or contact one of the engineering advisers listed above.

## Requirements for the Major

### All engineering and dual degree majors must take:

#### Required Courses

CHEM 211	Principles of Chemistry I	4
CHEM 212	Principles of Chemistry II	4
CHEM 213	Principles of Chemistry I Laboratory	1
CHEM 214	Principles of Chemistry II Laboratory	1
ENG COMP 100	College Writing	3
MATH 202	Calculus and Analytic Geometry I	4
ENGR 213	Mechanics I	3
ENGR 214	Mechanics II	3
ENGR 301	Engineering Materials	4
MATH 203	Calculus and Analytic Geometry II	4
MATH 209	Multivariate Calculus	4
PHYSICS 201	Principles of Physics I	5
PHYSICS 202	Principles of Physics II	5
Total Credits		45

See an adviser for additional requirements in aerospace, chemical, nuclear, and petroleum engineering.

## Engineering

UW-Green Bay provides solid preparation and numerous opportunities for those interested in beginning work toward an engineering degree.

The University has a cooperative program (the NEW Program) providing for direct, upper-level transfer into the College of Engineering and Applied Sciences at UW-Milwaukee. The two institutions also collaborate on a 3+2 dual degree program in which a student can earn two bachelor's degrees over five years of study: a bachelor's in Environmental Science from UW-Green Bay and a bachelor's in civil/environmental engineering from UW-Milwaukee. In addition to these options with UW-Milwaukee, a student at UW-Green Bay can also pursue pre-professional studies with the intent of transferring into engineering programs at other institutions, with several listed below.

Required engineering courses will vary, depending on the engineering program from which a student expects to earn the degree. Generally, a student spends a minimum of two years in engineering studies at UW-Green Bay before transferring to the professional engineering school. Required coursework is typically drawn from mathematics, physics, chemistry, engineering materials, engineering mechanics and other related courses, as well as liberal arts coursework in the humanities, fine arts and social sciences.

Students should expect rigorous requirements and competitive entry for engineering programs. Students should also seek early advice from the various engineering programs and UW-Green Bay's Academic Advising Office.

UW-Milwaukee offers engineering degrees in civil/environmental engineering and mechanics, electrical, industrial and manufacturing, materials and mechanical engineering. Information on each of the majors can be found on the UW-Milwaukee website at [www.uwm.edu/CEAS/](http://www.uwm.edu/CEAS/) (<http://www.uwm.edu/CEAS/>).

At least three other UW System institutions grant engineering degrees. They offer courses leading to the degrees both at their home campuses and several satellite sites. The universities are:

- UW-Madison – degrees in agricultural, biomedical, biological systems, chemical, civil, computer, electrical, geological, industrial, materials science, mechanical and nuclear engineering, and engineering mechanics.
- UW-Platteville – degrees in civil, electrical, environmental, mechanical, industrial, software engineering, general engineering and engineering physics.
- UW-Stout – degrees in manufacturing engineering. The manufacturing engineering degree is accessible to Northeastern Wisconsin students through a partnership involving UW-Green Bay and Northeast Wisconsin Technical College.

Advisers from engineering schools annually visit UW-Green Bay to answer questions and advise prospective students. For additional information on the NEW Program and Dual Degree Program with UW-Milwaukee, refer to the Engineering listing in this catalog.

## Environmental Sustainability and Business

### Certificate Program

**Faculty, Business Administration** – Lucy Arendt, David Radosevich

**Faculty, Environmental Science** – Greg Davis, Mathew Dornbush, Kevin Fermanich, John Katers, Patricia Terry, Michael Zorn

**Faculty, Nursing** – Susan Gallagher-Lepak, Christine Vandenhouten

**Faculty, Public and Environmental Affairs** – Dallas Blaney, Scott Furlong, John Stoll

The Environmental Management and Business Institute (EMBI) in conjunction with faculty from Business Administration, Natural and Applied Sciences, and Public and Environmental Affairs offers a broad-based certificate which documents that students have achieved an understanding of the importance of sustainable practices in business activities and community affairs, regardless of what area of emphasis a student's degree program may be centered upon. Understanding that our global future rests upon creating a citizenry that is aware of the need for economic, environmental, and social responsibility is critical for our world economy.

A certificate in Environmental Sustainability and Business is available to students in all academic programs. It consists of a supporting course structure that is complementary to the existing general education requirements and consistent with current credit-load requirements, and thereby will not delay a student's graduation. The main component of the certificate program is an intensive business internship or co-op experience.

### Requirements for the Certificate

<b>Supporting Course</b>		<b>3</b>
Select a minimum of three credits (see adviser)		
<b>Required Courses</b>		<b>13</b>
PU EN AF 390	Colloquium in Environmental Sustainability & Business	
<b>Business Element (choose one course):</b>		
BUS ADM 322	Introductory Marketing	
BUS ADM 389	Organizational Behavior	
ECON 453	Cost Benefit Analysis	
<b>Public Policy Element (choose one course):</b>		
ECON 305	Natural Resources Economic Policy	
ECON 412	Economics of Sustainability	
PU EN AF 301	Environmental Politics and Policy	
PU EN AF 322	Environmental Planning	
PU EN AF 378	Environmental Law	
<b>Environmental Science Element (choose one course):</b>		
ENV SCI 303	Environmental Sustainability	
ENV SCI 318	Pollution Control	
ENV SCI 425	Global Climate Change	
ENV SCI 460	Resource Management Strategy	
<b>Internship or Co-Op Experience (minimum of one course):</b>		
PU EN AF 490	EMBI Co-Op/Experience	

Total Credits

16



## Health Sciences

### Dentistry, Medicine, Optometry, Physical Therapy, Physician Assistant, Chiropractic

With a reputation for strength in the natural sciences dating to the institution's founding, along with experienced faculty members and exceptional classroom and laboratory facilities, UW-Green Bay places a good number of students and alumni into professional schools in the health sciences each year.

Students seeking admission to these schools typically complete a bachelor's degree at UW-Green Bay with a major in Human Biology (health science emphasis) or a major in Biology or Chemistry with a minor in Human Biology. Other combinations are possible, however, as most professional schools in health sciences will consider a range of undergraduate majors.

Competition for admission to schools of medicine and other health fields is often intense; typically, the number of applicants exceeds the number of positions for professional school openings. Given these circumstances, students should plan undergraduate programs that provide maximum flexibility for pursuing post-baccalaureate opportunities.

Those pursuing a career in medicine will typically follow their UW-Green Bay bachelor's degree with four years of medical school and at least three but as many as eight additional years of internship and residency, depending on the specialty. Students are highly encouraged to volunteer at local hospitals or clinics to gain practical experience in the health professions.

Most dental-school applicants have at least a bachelor's degree, although a few are accepted to dental school after two or three years of college and complete their bachelor's while attending dental school. Dental school usually lasts four academic years.

The doctor of optometry degree requires the completion of a four-year program at an accredited optometry school. As with dental school, most students hold a bachelor's degree or higher, but a small number of applicants will be admitted following at least three years of focused pre-optometric study.

Education programs for physician assistants are two-year programs at the master's degree level. Admission requirements vary, but many programs require some volunteer hours or work experience in the healthcare field.

According to the American Physical Therapy Association, there are about 200 accredited physical therapist programs in the United States, split between programs offering master's degrees and those awarding doctoral degrees. Specialized courses in biomechanics, neuroanatomy, human growth and development, and therapeutic procedures are required, and students receive supervised clinical experience.

Most state boards overseeing chiropractic require at least two years of undergraduate education; an increasing number are requiring a four-year bachelor's degree. All boards require the completion of a four-year program at an accredited chiropractic college leading to the doctor of chiropractic degree.

Typically, health-profession schools express a preference for students who have a long record of consistently high-level performance and come highly recommended by the undergraduate school. Personal references are important. UW-Green Bay undergraduates interested in professional schools in the health sciences are encouraged to take advantage of opportunities to assist faculty members with high-level research, and to pursue their own research projects. Historically, such experience has been extremely helpful to UW-Green Bay students who were successful professional-school candidates.

Admission committees — particularly for medical schools — tend to seek applicants who give evidence of having the ability to be critical thinkers, problem solvers and lifelong learners. A well-rounded record of campus and community involvement, and intellectual curiosity across multiple fields, are other positive factors. Also subject to evaluation are perceived personality traits including capacity for compassion, decision-making and coping skills, communication ability and personal determination, among other attributes.

The best advice for UW-Green Bay students is to seek preprofessional faculty advisers in their interest area early in their academic careers for help in selecting courses and, later, in studying for professional school admission tests and applying to professional schools.

A good starting point for new freshmen is to review the University's Human Biology major which encompasses five areas of emphasis:

- Health science emphasis – recommended for preparation for medical, dental or other health-related professional schools, or for graduate programs in biological or health sciences.
- Exercise science emphasis – provides background for careers in exercise physiology/fitness, sports medicine, biomechanics, physical therapy or occupational therapy.
- The cytotechnology emphasis – leads to professional certification as a registered cytotechnologist (specialist in the microscopic study of cells, primarily for the detection of cancer).
- The nutritional sciences/dietetics emphasis – provides a focus on the biological and physical principles of nutrition. See the "Dietetics" listing on the previous page for additional information.
- General emphasis – appropriate for sales, managerial and other positions in the health sciences including entry-level research positions with pharmaceutical or biotechnology companies.

Refer to the Human Biology, Biology and Chemistry majors described elsewhere in this catalog for additional information.

## Law

Students attending UW-Green Bay with the intention of earning a bachelor's degree and continuing on to law school receive excellent preparation.

The University's commitment to broad-based liberal arts education, multiple perspectives and hands-on learning correlates directly with skills seen as valuable for those pursuing careers in law. Those skills include intellectual curiosity, critical thinking and problem-solving ability.

Commonly chosen majors at UW-Green Bay include Democracy and Justice Studies, Public Administration, Urban and Regional Studies, Humanistic Studies, Political Science, History, English, and Business Administration. Unlike some professional schools, law schools do not recommend a specific undergraduate major.

The American Bar Association advises pre-law candidates that the law is "too multi-faceted" to be limited to one particular major or a narrow list of courses in preparation for law school. The ABA maintains an excellent pre-law advising page at [www.abanet.org/legaled/prelaw/prep.html](http://www.abanet.org/legaled/prelaw/prep.html) (<http://www.abanet.org/legaled/prelaw/prep.html>).

Most law schools tell potential students that the best preparation is a solid liberal arts education. Essential core skills and values include analytic and problem-solving skills, critical reading abilities, writing skills, oral communication and listening abilities, general research skills, task organization and management skills, and the values of serving faithfully the interests of others while also promoting justice.

In general, law schools assume their students will have a basic knowledge of American politics and history, as well as extensive experience in writing, reading and interpreting difficult texts. Polished communication skills — in particular the ability to excel in oral discussion — are imperative.

In conclusion, the ABA recommends, "Taking difficult courses from demanding instructors is the best generic preparation for legal education."

Admission to law school is competitive. Law schools consider college record, grade point average, honors or awards, faculty recommendations, and scores on the Law School Admissions Test (LSAT). Students are advised to take the LSAT in the junior year or early in the senior year; most law schools group their entering cohorts for fall-only starts. The Law Society, a UW-Green Bay student organization, organizes an LSAT preparatory course and offers various pre-law events such as guest speakers and field trips to law schools.

## Military Science

### Reserve Officers Training Corp (ROTC) Program

**Instructor** – Sergeant First Class Brian Ross - Military Science Instructor  
E-mail: [brian.ross@snc.edu](mailto:brian.ross@snc.edu) ([amie.pflaum@snc.edu](mailto:amie.pflaum@snc.edu)); Phone: (920) 403-6552

Military science is concerned primarily with the exploration and development of leadership and management. Students who want to develop such skills pursue studies in military science in addition to their majors and minors. Students register for these courses at UW-Green Bay and the classes are conducted at St. Norbert College.

Military science consists of a core curriculum of military skills and professional knowledge integrated in both basic and advanced courses. The ultimate purpose of the program is to provide college-trained officers for the U.S. Army, Army Reserve and Army National Guard. The program encourages participants to more fully develop personal qualities, including sense of duty, integrity, loyalty, respect, selfless service and honor, necessary for military leadership.

The program is conducted by the Reserve Officers Training Corp (ROTC) located at St. Norbert College. Completion of the advanced ROTC courses and a baccalaureate degree provides opportunities for full- or part-time careers as officers in the U.S. Army, Army National Guard, or Army Reserve.

## Nonprofit Management

### Certificate Program

**Faculty, Public and Environmental Affairs** – Dallas Blaney, Scott Furlong, David Helpap, Ekaterina Levintova, Laurel E. Phoenix, Rachel Russell, John Stoll, Lora Warner, Aaron Weinschenk, Elizabeth Wheat

**Faculty, Arts Management** – Ellen Rosewall

**Instructors, Public and Environmental Affairs** – Karen Dalke

**Website:** [www.uwgb.edu/pea/](http://www.uwgb.edu/pea/)

The faculty of the Public and Environmental Affairs department, along with its Center for Public Affairs, cooperates with the Arts Management and Adult Degree programs to offer a broad-based certificate which documents that students have achieved an understanding of the management principles for nonprofit organizations. Regardless of what area of emphasis a student's degree program is centered upon, many graduates will find themselves

working in, with, or directing nonprofit enterprises. Understanding principles of nonprofit management and developing tools for such management is critical to future success.

A certificate in Nonprofit Management is available to students in any academic program. It consists of a supporting course structure that is especially complementary to academic plans of students in the Integrative Leadership Studies degree program who have chosen to pursue a nonprofit leadership or leadership in public service emphasis. This certificate program is also attractive to students who have chosen other majors, such as Arts Management or Public Administration but desire to earn a free-standing certificate in nonprofit management. In addition to coursework, a critical element of the certificate program is the internship experience requirement.

## Requirements for the Certificate

<b>Supporting Courses</b>		<b>6</b>
PU EN AF 215	Introduction to Public Administration	
POL SCI 101	American Government and Politics	
or PU EN AF 202	Introduction to Public Policy	
<b>Required Courses</b>		<b>18</b>
PU EN AF 315	Public and Non-Profit Management	
PU EN AF 415	Public and Nonprofit Budgeting	
PU EN AF 425	Fundraising and Marketing for Nonprofits	
PU EN AF 428	Public and Nonprofit Program Evaluation	
PU EN AF 344	Leadership in Organizations	
PU EN AF 497	Internship (minimum of three credits)	
Total Credits		<b>24</b>

## Nursing

UW-Green Bay provides an 'RN to BSN' program in Nursing for registered nurses (RNs) who hold associate degrees or diplomas in nursing and want to complete their bachelor's degree in nursing. Students are required to have a current RN license before being formally accepted into UW-Green Bay's program.

UW-Green Bay does not offer nursing education for new freshmen or other newcomers to the field of nursing. Some students do, however, begin their studies with one or two years at UW-Green Bay before transferring to another nursing program. Students are advised to consult with their transfer school of choice regarding requirements, transfer information, and advising assistance before beginning course work at UW-Green Bay.

Newcomers to the field of nursing should consider other UW System programs at Oshkosh, Milwaukee, Madison, and Eau Claire. (Consult the UW System HELP website, [www.uwhelp.wisconsin.edu](http://www.uwhelp.wisconsin.edu) (<http://www.uwhelp.wisconsin.edu>), for details). Additionally, a number of private institutions in Wisconsin offer programs leading to a baccalaureate degree in nursing. Locally, for example, students of Bellin College in Green Bay can complete their general education requirements at UW-Green Bay through a dual-enrollment arrangement.

## Pharmacy

UW-Green Bay offers courses satisfying requirements for admission into a professional program in pharmacy. There are two schools in Wisconsin: UW-Madison and Concordia University.

The practice of pharmacy is regulated by law and requires that a candidate be a graduate of an accredited professional school, complete an internship and pass a licensure examination. Pharmacy programs grant the degree of doctor of pharmacy, which requires a minimum of six years of postsecondary study. National statistics show most students have at least three years of undergraduate experience prior to entering the four-year course of study.

Advisers from UW-Madison usually visit UW-Green Bay each year to help pre-pharmacy students plan their programs. Admission to the School of Pharmacy is based on completion of prerequisite courses, grade point average, letters of recommendation, and Pharmaceutical College Admissions Test (PCAT) scores. Grade point averages in mathematics and science courses are particularly important.

Licensure involves rigorous requirements, including completion of 1,500 hours of internship to qualify for licensure. Following completion of the internship requirement, prospective pharmacists must pass an examination administered by the Wisconsin Pharmacy Examining Board. Graduates of the UW program pursue careers in community pharmacy, hospital pharmacy, and home care, assisted-living, extended care, and long-term care pharmacy. Other career opportunities include research and discovery in the pharmaceutical industry or education. In addition, studies in pharmacology (concerned with the properties, effects, and mechanisms of the action of drugs, and with the interactions between chemical agents and biological systems) and toxicology, the science of poisons, are available.

For more information about pre-pharmacy studies, contact the Academic Advising Office at [advising@uwgb.edu](mailto:advising@uwgb.edu).

# Physical Education

## Including Coaching Certification

**Lecturers, basic instruction program** – Jane Birr, Deb Harris, John Jansen, Michael Kline, Bill Lindmark

**Lecturers, certification program** – Sue Beeck, Logan Flora, Emily Johnson, Mike Kulas, Mark McCartney, Bruce Vandenplas

**Website:** [www.uwgb.edu/phyed/](http://www.uwgb.edu/phyed/)

The physical education unit does not offer a major or minor. However, physical education credits are included in a student's grade point average and may be applied toward a degree where approved by a program or as elective credits.

Enrollment in physical education activity presumes a student's health status is appropriate for the course selected. A physical examination and the filing of a health history form with the office of Student Health Services are recommended.

## Coaching Certification

The coaching certification program consists of a minimum of 17 credits to prepare students for coaching responsibilities and is approved by the Wisconsin Department of Public Instruction for athletic coaching preparation for the public schools of Wisconsin. Youth-sport coaches are encouraged to acquire similar training.

Students desiring certification may normally complete requirements within two academic years, but it is wise to begin coaching certification coursework early. Completion of the coaching certification program is noted on your transcript.

Some coaching certification courses are appropriate for interdisciplinary study and many students select individual courses without completing the entire program. Persons already teaching and/or coaching may take courses to expand their personal and professional background.

UW-Green Bay's coaching certification program is consistent with the recommendations of the National Council of State High School Coaches, the National Association for Girls and Women in Sport, and the American Alliance of Health, Physical Education, Recreation and Dance.

## Requirements for Coaching Certification

### Required Courses

17

EDUC 417	Philosophy of Athletics and Coaching
EDUC 418	Organization and Administration of Athletics
HUM BIOL 102	Introduction to Human Biology
HUM BIOL 116	First Aid and Emergency Care Procedures
HUM BIOL 208	Scientific Conditioning of the Athlete
HUM BIOL 210	Prevention and Treatment of Athletic Injuries
EDUC 416 or EDUC 419	Principles of Coaching Field Experience in Coaching

Total Credits

17

# Professional Accounting

## Certificate Program

**Professor** – Lucy Arendt (Director, Cofrin School of Business), Meir Russ

**Associate Professors** – Gaurav Bansal, James Doering (chair), Michael Knight, William Lepley, James Loebel, Steven Muzatko, Robert Nagy, David Radosevich, Sampath Ranganathan, Peter Smith, Mussie Teclezion

**Assistant Professor** – Ghadir Ishqaidef

**Lecturers** – Pat Albers, Ken Knauf, Donald McCartney, Larry McGregor, Ann Selk

**Website:** [www.uwgb.edu/busadmin/](http://www.uwgb.edu/busadmin/)

A certificate in Professional Accounting provides a cohesive course plan for students entering professional accounting careers, in particular, those seeking to meet the 150 credit hours requirement to be certified as a CPA in the state of Wisconsin and other states. The certificate emphasizes communication, interpersonal skills and real world experience.

The certificate is available to a student who is a declared Accounting major. In addition, an overall grade point average of 3.25 is required.

## Requirements for the Certificate

<b>Required Courses</b>		<b>2</b>
ACCTG 303	Seminar in Accounting Professionalism	
<b>Choose two of the following courses:</b>		<b>6</b>
ACCTG 413	VITA	
ACCTG 497	Internship	
or BUS ADM 497	Internship	
BUS ADM 299	Travel Course	
or BUS ADM 499	Travel Course	
<b>Choose one of the following courses:</b>		<b>3</b>
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 185	Business and Media Writing	
COMM 335	Organizational Communication	
<b>Choose one of the following courses:</b> <sup>1</sup>		<b>3</b>
BUS ADM 472	Leadership Development	
BUS ADM 482	Strategic Management	
BUS ADM 489	Organizational Culture & Change	
<b>Certificate Electives</b>		<b>16</b>
Select 16 credits in consultation with adviser.		
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Course cannot be used to fulfill upper-level management requirement for Accounting major.

## Teaching English as a Second Language

### Certificate Program

**Adviser** - Cliff Abbott, Professor

The certificate of completion in Teaching English as a Second Language (TESL) is offered under the auspices of the interdisciplinary program in Humanistic Studies as an 18-credit program of study. It is designed for students who want to teach in situations that **do not** require Wisconsin public school teacher licensure, such as teaching English overseas or in adult literacy programs or tutorial programs sponsored by community service organizations or private companies. It can be a useful complement to training in other areas such as community and regional development, science and technology, or international business — wherever English is an important access language or a medium for training or cross-cultural communication.

**This certificate is not equivalent to a professional licensure program for teaching in public elementary or secondary schools in Wisconsin.** It can, however, be a first step toward obtaining that qualification. UW-Green Bay does offer professional licensure in English as a Second Language that is approved by the Wisconsin Department of Public Instruction. A full description of the ESL teacher licensure program and requirements at UW-Green Bay is available from the professional program in Education.

To be eligible for the TESL certificate of completion program, students must either be candidates for a B.A. or B.S. degree or have already completed such a degree.

### Requirements for the Certificate

<b>Required Courses</b>		<b>15</b>
EDUC 315	Teaching English as a Second Language	
HUM STUD 160	Introduction to Language	
HUM STUD 319	Second Language Acquisition	
HUM STUD 321	Language and Society	
HUM STUD 497	Internship	
<b>Choose one elective from the following:</b>		<b>3</b>
COMM 322	Modern Linguistics	
ENGLISH 340	History of the English Language	
HUM STUD 318	Topics in Linguistics/TESL	

## Veterinary Medicine

Each school of veterinary medicine establishes its own requirements; therefore, students pursuing careers as veterinarians need to plan both preprofessional coursework and practical experiences to enhance their chances of acceptance. Veterinary schools value experience in working with animals as well as evidence of academic ability in preprofessional courses.

Wisconsin has a college of Veterinary Medicine at UW-Madison. The School of Veterinary Medicine does not offer a bachelor's degree program. However, the school does offer a number of courses that are available to undergraduates, and it offers residency, master's, Ph.D., and doctor of veterinary medicine (DVM) degrees. Scores from the Graduate Record Exam (GRE) must be submitted at the time of application. In addition to grade point average and GRE scores, evidence of motivation, promise of effective performance, communication skills, and breadth of experience, particularly that relate to veterinary practice, are taken into consideration.

At UW-Green Bay, most students pursuing this career path major in Biology with a Human Biology or Environmental Science minor. For more information about pre-veterinary medicine studies, contact the Academic Advising Office at [advising@uwgb.edu](mailto:advising@uwgb.edu).

## Undergraduate Course Descriptions

### Accounting (ACCTG)

#### Courses

##### **ACCTG 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

##### **ACCTG 300. Introductory Accounting. 4 Credits.**

Principles, concepts and terminology of financial accounting including coverage of the measurement and recording of business income and transactions, current and long-term assets, current and long-term liabilities, corporate equity, statement of cash flows and financial statement analysis. Ethical considerations and analysis of company statements are integrated into the course.

P: sophomore standing

Fall and Spring.

##### **ACCTG 301. Intermediate Accounting. 4 Credits.**

Financial accounting theory, concepts, principles and procedures relating to the measurement and reporting of cash, receivables, inventories, fixed assets, intangibles, current liabilities, long-term debt, owner's equity; preparation and understanding of the balance sheet and income statement.

P: Acctg 300 with at least a "B" grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

##### **ACCTG 302. Managerial Accounting I. 3 Credits.**

The use and understanding of management accounting information for planning, control, performance evaluation, decision making; product costing using traditional and activity based costing techniques, just-in-time, cost-profit-volume relationships, budgeting, variance analysis, decentralization, relevant costing, and ethics.

P: Acctg 300 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

##### **ACCTG 303. Seminar in Accounting Professionalism. 2 Credits.**

Seminar in Accounting Professionalism is designed to familiarize prospective accounting majors with their profession. Topics will include various career paths in accounting, professional demeanor, and professional ethics.

P: Acctg 300 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall Only.

##### **ACCTG 312. Managerial Accounting II. 3 Credits.**

Expands and broadens the concepts and methods presented in Acctg 302. Job order, process, and joint product costing systems, ABC costing, standard costing, budgeting, JIT and cost estimation. Significant exposure to current issues and practices. Writing skills emphasized.

P: Acctg 302 with at least a B grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Bus Adm 216 or Math 260 or Comm Sci 205.

Fall Only.

**ACCTG 313. Advanced Financial Accounting I. 3 Credits.**

An expansion of intermediate financial accounting. Specialized financial accounting topics, including price-level accounting, accounting changes, cash flow statement preparation, tax allocation, accounting for leases and pensions, special sales arrangements and partnerships; AICPA and FASB pronouncements affecting accounting practice.

P: Acctg 301 with at least a B grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall Only.

**ACCTG 314. Advanced Financial Accounting II. 3 Credits.**

Accounting for long-term investments; business combinations; preparation of consolidated financial statements; inter-company profit issues; inter-company debt and preferred stock issues; earnings-per-share calculations; accounting for branch operations and foreign operations.

P: Acctg 301 with at least a B grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Acctg 313.

Spring.

**ACCTG 316. Governmental and Nonprofit Accounting. 3 Credits.**

Financial and managerial accounting concepts, theory and terminology related to state and local governmental entities and not for profit organizations including universities, health care organizations, voluntary health and welfare organizations and other not for profit entities. Analysis of actual municipal financial statements. Case studies, group work and/or class presentations emphasize application of theory to actual situations including ethical considerations.

P: Acctg 300; Acctg 301 with at least a C grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

**ACCTG 410. Introduction to Income Tax Theory and Practice. 3 Credits.**

Federal income taxation, especially tax rules and the determination of taxable income for individuals. Topics include: exclusions, deductions, passive activity losses, property transactions, nontaxable exchanges, capital gains and losses.

P: Acctg 300; Acctg 301 with at least a C grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Bus Adm 305.

Fall Only.

**ACCTG 411. Financial Information Systems. 4 Credits.**

Principles of systems design, emphasizing organizational structure; internal control; flow charts and the impact of people on systems studies; systems requirements of the procedural areas of accounting systems, such as cash, purchasing, inventory management, sales, and billing.

P: Acctg 302 with at least a B grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall Only.

**ACCTG 412. Auditing Standards and Procedures. 4 Credits.**

Audit standards, professional ethics, legal liability of auditors; audit procedures relating to assets, liabilities, equity, revenue and expense accounts; review of computer applications in auditing, statistical sampling and internal auditing.

P: Acctg 313 and 411 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Spring.

**ACCTG 413. VITA. 3 Credits.**

Students will work in the community to prepare tax returns for students, low income individuals and families, and the elderly.

P: Acctg 300 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Acctg 410

Spring.

**ACCTG 414. Managerial Accounting III. 3 Credits.**

Expands and broadens the concepts and methods presented in Acctg 302 and 312. Cost concepts for decision-making, cost volume profit analysis, relevant costing, performance measurement, variable costing, transfer pricing, and decision making under uncertainty. Writing skills are emphasized.

P: Acctg 312 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Math 260 or Bus Adm 216 or Comm Sci 205.

Spring.

**ACCTG 415. Advanced Income Tax Theory and Practice. 3 Credits.**

Advanced topics in federal taxation, with emphasis on the federal taxation of corporations, partnerships, and exempt organizations. Estate and gift taxation and the income taxation of estates and trusts.

P: Acctg 410 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Spring.

**ACCTG 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**ACCTG 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st and major/minor in Acctg; min 2.75 GPA; Acctg 301.

Fall and Spring.

**ACCTG 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

**ACCTG 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Anthropology (ANTHRO)

### Courses

**ANTHRO 100. Varieties of World Culture. 3 Credits.**

The variety of ways of life that exist in the world and the concepts of culture, cultural relativity, and ethnocentrism. Representative case studies of world cultures are considered.

Fall and Spring.

**ANTHRO 304. Family, Kin, and Community. 3 Credits.**

A cross-cultural comparison of the form and function of such social institutions as marriage and the family; age, sex and kin groups; task groups; caste and class.

P: Junior standing REC: Anthro 100

Fall Only.

**ANTHRO 320. Myth, Ritual, Symbol and Religion. 3 Credits.**

Mythology, ritual, and symbolism in the belief systems of a variety of cultures around the world; a survey of anthropological theory relating to belief systems.

Fall Only.

## Arabic (ARABIC)

### Courses

**ARABIC 101. Introduction to the Arabic Language I. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Arabic.

Fall Only.

**ARABIC 102. Introduction to the Arabic Language II. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Arabic.

P: Arabic 101 or 1 year h.s. or 1 semester college Arabic.

Spring.

**ARABIC 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

## Art (ART)

### Courses

**ART 101. Tools, Safety, and Materials. 1 Credit.**

Acquaints students with a wide range of materials and safe working practices and methods.

Fall and Spring.

**ART 102. History of the Visual Arts: Ancient to Medieval. 3 Credits.**

Survey of the visual arts: prehistoric to the late Gothic period.

Fall Only.

**ART 103. History of the Visual Arts II: Renaissance to Modern. 3 Credits.**

Survey of the visual arts: early Renaissance to the modern period.

Spring.



**ART 105. Introductory Drawing. 3 Credits.**

Introduction to the fundamental concepts of drawing; emphasis on two-dimensional artwork employing various drawing techniques in black and white media. Students are required to purchase a list of supplies for the class.

Fall and Spring.

**ART 106. Design Methods. 3 Credits.**

Investigates spatial design as a decision-making and problem-solving process bounded by criteria which include human sensory systems, basic structural systems and materials.

P: None

Fall and Spring.

**ART 107. Two-Dimensional Design. 3 Credits.**

Design studio art work and fundamental concepts of art structure and composition, color and design, applying the elements and principles of design. Students are required to purchase a list of supplies for the class.

Fall and Spring.

**ART 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**ART 202. Concepts and Issues of Modern Art. 3 Credits.**

Key concepts of modern art, the visual art which emerged and the corresponding issues they raise; explores the wider cultural matrix in which modern artistic ideas develop.

Spring.

**ART 210. Introduction to Painting. 3 Credits.**

Introduction to acrylic painting techniques, principles of composition, and color mixing. Emphasis on observational painting with an introduction to abstraction.

P: Art 105 or 107; REC: Art 101 and 106.

Fall and Spring.

**ART 220. Introduction to Sculpture. 3 Credits.**

Survey of various sculpture media, processes, and stylistic approaches; aesthetics and history of sculpture.

P: Art 101 and 106; REC: Art 105 and 107.

Fall and Spring.

**ART 230. Introduction to Ceramics. 3 Credits.**

Survey of various ceramic forming and firing processes, stylistic approaches; traditional and contemporary aesthetics, and history of ceramics.

P: none; REC: Art 105 and 106 and 107.

Fall and Spring.

**ART 243. Introduction to Photography. 3 Credits.**

The creative process in photography is studied to develop visual perception and photographic design ability through active participation, photographic exercises, and discussions analyzing student work. Camera is required for course. Option 1: Digital SLR camera with viewfinder, interchangeable lenses, ability to manually adjust focus, aperture, shutter speed and white balance. Option 2: 35mm) film camera with the ability to function in all manual mode.

P: none; REC: Art 105, 106 and 107.

Fall and Spring.

**ART 250. Introduction to Fibers/Textiles. 3 Credits.**

An introductory overview of the field of textiles and fiber arts. Students will learn basic processes as well as some of the intellectual, philosophical and historical considerations specific to the study of art cloth, fiber sculpture, textile construction, and embellishment.

P: none; REC: Art 105, 106 and 107.

Fall and Spring.

**ART 260. Introduction to Jewelry/Metals. 3 Credits.**

Designing and creating jewelry projects using varied metal techniques, processes and metal media; forming, shaping and designing of jewelry.

P: none; REC: Art 105, 106 and 107.

Fall and Spring.

**ART 270. Introduction to Printmaking. 3 Credits.**

Concept development as it integrates with the exploration of various printmaking media such as relief, monoprint, collagraph, and intaglio.

P: Art 105; REC: Art 106 and 107.

Spring.

**ART 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**ART 302. Intermediate Drawing. 3 Credits.**

Investigation of drawing processes and structures in two-dimensional media; includes drawing the human figure; drawing techniques in black, white, and color media.

P: Art 105, 106 and 107.

Fall and Spring.

**ART 304. Figure Drawing. 3 Credits.**

Exploration of the figure/body as concept, expression, structure, and subject matter in drawing media.

P: Art 105, 106, 107, 302; REC: Art 210

Fall Only.

**ART 309. Intermediate Painting: Oil Painting. 3 Credits.**

Exploration of the oil painting medium with emphasis on pictorial construction as it relates to images and concepts of the figure/body, landscape, and still life.

P: Art 101, 105, 106, 107 and 210 REC: Art 302 & 304

Fall Even.

**ART 310. Intermediate Painting: Media Exploration. 3 Credits.**

Experimentation with a variety of painting media (encaustic, egg tempera, watercolor, handmade acrylic paint, acrylic mediums & additives) as a way to connect process, material, and concept. Reciprocal influence of studio areas is encouraged.

P: Art 101, 105, 106, 107, and 210 REC: Art 302 & 375

Fall Odd.

**ART 311. Intermediate Painting: Contemporary Approaches. 3 Credits.**

Students will study the conceptual framework, compositional structures, and techniques/materials used in contemporary painting as a springboard for developing their own paintings.

P: Art 101, 105, 106, 107 and 210.

Spring.

**ART 320. Art and Ideas. 3 Credits.**

Art is created to serve many purposes and may be viewed in many ways. This course will investigate diverse examples of visual culture, their contexts, and strategies for viewing and understanding art.

**ART 321. Intermediate Sculpture. 3 Credits.**

Intermediate work in sculpture including fabrication, casting, carving, and/or modeling; development of individual expression.

P: Art 101, 105, 106, 107 and 220.

Fall and Spring.

**ART 331. Intermediate Ceramics. 3 Credits.**

Intermediate work in ceramic media: mold work, wheel work or hand building; aesthetics, history and technology of ceramics.

P: Art 105, 106, 107 and 230.

Fall and Spring.

**ART 343. Photography II. 3 Credits.**

Black-and-white photography, printing practices, and analysis of student work. Camera required.

P: Art 105, 106, 107, and 243.

Fall and Spring.

**ART 344. Photography III. 3 Credits.**

Applications of photography, including photographic documentation. Black-and-white, color, and digital photography. Camera required.

P: Art 343.

Fall Only.

**ART 355. Intermediate Fibers/Textiles. 3 Credits.**

Expanded exploration of the cloth matrix and fiber media. Textile construction using felting, papermaking and other off-loom techniques. Processing and manipulation of fibers into three-dimensional sculptural forms.

P: Art 105, 106, 107 and 250.

Fall and Spring.

**ART 364. Intermediate Jewelry/Metals. 3 Credits.**

Intermediate jewelry and art metals techniques: casting, fabricating and assembling mixed-media objects.

P: Art 260 REC: Art 106.

Fall and Spring.

**ART 373. Intermediate Printmaking. 3 Credits.**

Expanded idea development as it relates to hand and digital/photo-based print processes, such as relief, intaglio, monoprint, lithography, or combined print applications. Student responsibilities include readings, discussions, one presentation, and print creation.

P: Art 105, 106, 107 and 270.

Fall Only.

**ART 375. Screen Printing. 3 Credits.**

Studio work in the art of screen printing, including print concept development, basic materials and equipment and processes including: blockout stencil and photo-emulsion.

P: Art 105, 106 and 107; and Art 270 or 243 or Comm 243.

Spring.

**ART 376. Modern American Culture. 3 Credits.**

Fad, fashion and popular art: the media, music, advertising and entertainment as they express the intimate unguarded concerns of modern America.

P: Jr st. or Art, AVD or Theatre major

Fall Even.

**ART 378. World Art. 3 Credits.**

Survey of selected non-western art and architecture with an emphasis on cultural, social, religious, political and economic context.

P: jr st.

Spring Even.

**ART 379. Women, Art and Image. 3 Credits.**

Examines the impact women have made on art historically as of artists, muses, models, dealers, benefactors and critics with emphasis on images of women in visual culture, deconstructing notions of identity, others and beauty in contemporary society and in the past.

P: jr st; REC: Art 202 or WOST 241

Spring Odd.

**ART 380. History of Photography. 3 Credits.**

This course surveys the major historical, technical, conceptual and theoretical movements within the history of fine art photography. Students will learn photography's role in reflecting and shaping the cultural, social, political, economic, and scientific contexts from 5th century B.C.E. to the present.

P: Junior standing

Fall Odd.

**ART 395. Exhibition Development and Design. 3 Credits.**

Standards, practices and methods of the museum and art gallery profession: planning, promotion, and publicity; development of educational materials and programs; exhibition design and installation; proper handling and treatment of works of art.

P: jr st.

Fall Only.

**ART 396. Gallery/Museum Practices, Principles and Policy. 3 Credits.**

Practical experience in the methods of the museum and art gallery profession; exploration of theoretical, ethical, and operational concerns within the field.

P: Art 395.

Spring.

**ART 402. Advanced Drawing. 3 Credits.**

Development of personalized imagery with continuing conceptual, formal, and technical exploration; encourages reciprocal influence of studio areas and learning experiences.

P: Art 302 or permission of instructor. REC: Art 304

Spring.

**ART 410. Advanced Painting. 3 Credits.**

Development of personalized imagery with continuing conceptual, formal, and technical exploration; encourages reciprocal influence of studio areas and learning experiences.

P: Art 309 or 310, AND 311, OR permission of instructor

Fall and Spring.

**ART 421. Advanced Sculpture. 3 Credits.**

Exploration and refinement of sculptural investigations towards a meaningful and personal body of work.

P: Art 321.

Fall and Spring.

**ART 431. Advanced Ceramics. 3 Credits.**

Extension and development of ceramic techniques and aesthetics into a significant and personal body of work.

P: Art 331.

Fall and Spring.

**ART 443. Advanced Problems in Photography. 3 Credits.**

Participants identify an area of interest and the problems implied and are directed to appropriate resources. Seminars support production of a major photographic portfolio. Camera required.

P: Art 344.

Spring.

**ART 453. Advanced Fibers/Textiles. 3 Credits.**

Exploration of one area of textiles or fiber art such as papermaking, weaving, surface design or applied techniques in directed study with emphasis on development of a personal artistic voice in the media.

P: Art 355.

Fall and Spring.

**ART 463. Advanced Jewelry/Metals. 3 Credits.**

Advanced techniques in jewelry; creative research and investigation of metals and jewelry media.

P: Art 364.

Fall and Spring.

**ART 470. Advanced Printmaking. 3 Credits.**

Advanced techniques and individual expression in one area of printmaking: intaglio, relief, lithography or screen printing. .

P: Art 371, 373, 375 or 377.

Fall and Spring.

**ART 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**ART 483. SELECTED TOPICS. 3 Credits.**

P: May be repeatable for credit. None.

**ART 490. Contemporary Art. 3 Credits.**

Investigation of art works and concepts from 1960 to the present.

P: Art 102, 103 and 202; and Art 376 or 378 or 379 or Wost 379.

Fall Only.

**ART 495. Advanced Gallery/Museum Practices. 3 Credits.**

Continued study of specialty areas in the Art Management field with an emphasis on exhibition development, collection management and research.

P: Art 395 and 396.

Fall and Spring.

**ART 497. Internship. 1-12 Credits.**

Internship with an outside museum or gallery. Activities are determined by the curator of art and a professional in the sponsoring institution.

P: jr st.

Fall and Spring.

**ART 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**ART 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Arts Management (ARTS MGT)

### Courses

**ARTS MGT 256. Understanding the Arts. 3 Credits.**

An introduction to the language of the visual and performing arts, including direct experience of art forms, and incorporating comparative studies of the elements and structural principles employed among the arts. Development of student's aesthetic literacy, and their ability to articulate informed responses to art forms.

Fall Odd.

**ARTS MGT 257. Arts in the Community. 3 Credits.**

The role of arts and cultural activities within a community's social, political, and economic structures. Emphasis on cultural delivery systems in urban, rural and suburban settings; evaluation of artistic quality in a community context, and models for intergration of culture into civic life.

Fall Only.

**ARTS MGT 354. Managing Arts and Cultural Organizations. 3 Credits.**

An overview of the field of arts management with an emphasis on not-for-profit arts and cultural organizations and the role of the professional manager within the field, including governance, planning, assessment, audience development, fund-raising and advocacy.

P: Arts Mgt major or minor. REC: AVD 261 or Arts Mgt 257.

Spring.

**ARTS MGT 355. Funding and Financial Issues in the Arts. 3 Credits.**

Investigation of a variety of financial issues, including earned and contributed income, sponsorships, foundations and grants; introduction to standard budget and accounting terminology and principles as applied in arts management.

P: Arts Mgt 354.

Fall Only.

**ARTS MGT 356. Promoting the Arts. 3 Credits.**

Approaches to promoting the arts, developing audiences through marketing, using various public relations and advertising tools and techniques.

P: Arts Mgt 354.

Spring.

**ARTS MGT 455. Practicum in Arts Management. 3 Credits.**

Practical work in completion of student-directed arts management projects, working both in teams and individually. Projects may deal with marketing, audience analysis and development, funding, and/or educational aspects of arts management.

P: Cons of instr. Rec: Arts Mgt 355 and 356.

Fall and Spring.

**ARTS MGT 480. Arts Management Seminar. 1 Credit.**

Exploration of issues pertinent to arts management using research, case studies and practical applications.

P: Arts Mgt 354; Arts Management Maj/Min

Fall and Spring.

**ARTS MGT 497. Internship. 1-12 Credits.**

Instruction and experience in a professional environment where students work in any aspect of the field appropriate to their academic preparation and career goals under professional and faculty supervision. No more than 3 credits may be used to meet requirements for a major or minor.

P: jr st and 3.0 gpa in major emphasis (dept will monitor gpa req).

Fall and Spring.

## Biology (BIOLOGY)

### Courses

**BIOLOGY 201. Principles of Biology: Cellular and Molecular Processes. 3 Credits.**

Study of biological principles, focusing on cellular structure and function, metabolism, genetics, evolution and development. This introductory course is intended for science majors.

P: Env Sci 207 or conc enr or Hum Biol 207 or conc enr AND ACT Science Score of 24 or greater, OR grade of C or better in Hum Biol 102, OR grade of C or better in Biology 203 & Biology 202 or concurrent enrollment.

Fall and Spring.

**BIOLOGY 202. Principles of Biology Lab: Cellular and Molecular Processes. 1 Credit.**

This lab course offers an introduction to the biology of organisms at the molecular and cellular level. Labs will focus on the chemical, genetic, and microscopic properties shared by cells. This is a beginning biology course for students who wish to major in Biology, Human Biology or Environmental Science.

P: Env Sci 207 or conc enr or Hum Biol 207 or conc enr AND ACT Science Score of 24 or greater, OR grade of C or better in Hum Biol 102, OR grade of C or better in Biology 203 & BIOLOGY 201 or concurrent enrollment

Fall and Spring.

**BIOLOGY 203. Principles of Biology: Organisms, Ecology, and Evolution. 3 Credits.**

Survey of the evolution and diversity of life, with focus on general biological principles, anatomy and physiology, and consideration of interactions from the cellular to organismal level.

P: Biology 204 or concurrent enrollment.

Fall and Spring.

**BIOLOGY 204. Principles of Biology Lab: Organisms, Ecology, and Evolution. 1 Credit.**

Hands-on laboratory reinforcing material covered in Biology 203. Laboratory activities explore the structure of seed plants, comparative morphology of animal phyla, dichotomous taxonomic keys, phylogeny, and experimental approaches to plant and animal physiology. This writing emphasis course covers the process and techniques of scientific writing.

P: BIOLOGY 203 or concurrent enrollment.

Fall and Spring.

**BIOLOGY 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**BIOLOGY 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**BIOLOGY 302. Principles of Microbiology. 4 Credits.**

Microorganisms and their activities; their form, structure, reproduction, physiology, metabolism, and identification; their distribution in nature and their relationship to each other and other living things.

P: Biology 201/202 with at least a C grade AND Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall and Spring.

**BIOLOGY 303. Genetics. 3 Credits.**

Mechanisms of heredity and variation, their cytological and molecular basis and their implications in biological technology.

P: Biology 201/202 with at least a C grade; Chem 108 or 212 with at least a C grade; Math 260 with at least a C grade;

Fall and Spring.

**BIOLOGY 304. Genetics Laboratory. 1 Credit.**

Basic techniques of genetic research; laboratory investigation and analysis of animal, plant, and human patterns of inheritance.

P: Biology 303 with at least a C grade AND Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall Only.

**BIOLOGY 307. Cell Biology. 3 Credits.**

A study of the fundamental biological processes that occur within a cell and its normal environment. Topics include cellular molecules and metabolic processes; membranes and organelles; synthesis and regulation of macromolecules; protein sorting and transport, cytoskeleton; signal transduction, cellular interactions, cell cycle and growth of normal and neoplastic cells.

P: Biology 202 with at least a C grade; and Chem 108 or 212 with at least a C grade; Math 260 with at least a C grade.

Fall and Spring.

**BIOLOGY 308. Cell Biology Laboratory. 1 Credit.**

A laboratory course examining the microscopic, biochemical and molecular approaches used to investigate cellular structure and function.

P: Biology 202 with at least a C grade; AND Chem 108 or 212 with at least a C grade; AND Math 260 with at least a C grade; AND Biology 307 with at least a C grade or conc enr; AND Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall and Spring.

**BIOLOGY 309. Evolutionary Biology. 3 Credits.**

Patterns and processes of biological evolution and their significance for modern biology. Topics include the history of life, population genetics, speciation, and evolution in populations today.

P: Biology 201/202 with at least a C grade and either Biology 203 or Human Biology 204 with at least a C grade.

Fall and Spring.

**BIOLOGY 310. Plant Taxonomy. 3 Credits.**

Identification and classification of vascular plants of North America, emphasizing flora of Wisconsin and including topics in evolution of vascular plants.

P: Biology 201/202 with at least a C grade and Biology 203/204 with at least a C grade, or transfer cse Biology 003.

Spring.

**BIOLOGY 311. Plant Physiology. 4 Credits.**

General physiology of vascular plants within the context of a plant life cycle: seed dormancy and germination, metabolism, transport systems, mineral nutrition, patterns of plant growth and development, growth regulators, reproduction and senescence.

P: Biology 202 with at least a C grade and Biology 203 with at least a C grade, or transfer cse Biology 003; and Chem 212.

Fall Only.

**BIOLOGY 312. Mycology. 3 Credits.**

Morphology, taxonomy and studies of fungi in medical mycology, allergies, antibiotic production, brewing, baking and other industries; poisonous edible and plant pathogenic fungi; techniques in collection, isolation, pure culture and identification.

P: Biology 202 with at least a C grade or transfer cse Biology 003.

Spring.

**BIOLOGY 317. Structure of Seed Plants. 3 Credits.**

Anatomy of seed plants, with special emphasis upon tissue differentiation and structure.

P: Biology 202 with at least a C grade and Biology 203 with at least a C grade, or transfer cse Biology 003.

Fall Even.

**BIOLOGY 320. Field Botany. 3 Credits.**

Identification and natural history of plants indigenous to northeastern Wisconsin. .

P: Biology 201/202 with at least a C grade and Biology 203/204 with at least a C grade, or transfer course Biology 003.

Fall Only.

**BIOLOGY 322. Environmental Microbiology. 4 Credits.**

This course will focus on the diversity and role of microorganisms in diverse and complex environments, including the use and management of these organisms for the benefit of ecosystems and society.

P: Bio 201/202 with at least a C AND Env Sci/Hum Bio 207 or conc enr

Spring.

**BIOLOGY 340. Comparative Anatomy of Vertebrates. 4 Credits.**

A lecture and laboratory course examining the anatomy of organs and organ systems of the vertebrates with emphasis on adaptations. Specimens primarily studied in the lab are the shark and cat.

P: Biology 201/202 with at least a C grade and Biology 203/204 with at least a C grade; OR transfer cse Biology 002; AND Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall Only.

**BIOLOGY 341. Ichthyology. 4 Credits.**

An examination of the biology of fishes including classification, phylogeny, functional morphology and population characteristics. Aspects of the ecology of the fishes will be studied in relation to behavior, distribution, diversity and production in freshwater environments. P: None.

P: Env Sci 405

Spring Even.

**BIOLOGY 342. Ornithology. 3 Credits.**

Overview of avian biology, emphasizing adaptation and ecology. Identification of North American bird species and other avian families. Region's most interesting birding areas.

P: Biology 201/202 with at least a C grade and Biology 203/204 with at least a C grade, or transfer cse Biology 002.

Spring Even.

**BIOLOGY 343. Mammalogy. 3 Credits.**

Comprehensive study of mammals, including systematics, anatomy, physiology, behavior, and ecology. Laboratory studies include work with specimens from the Richter Natural History Museum.

P: Biology 201/202 with at least a C grade and 203/204 with at least a C grade, or transfer cse Biology 002.

Spring Odd.

**BIOLOGY 345. Animal Behavior. 3 Credits.**

Biology of animal behavior patterns; behavioral interactions of animals with their environment.

P: Biology 201/202 with at least a C grade.

Spring Even.

**BIOLOGY 346. Comparative Physiology. 3 Credits.**

Ways in which dissimilar organisms perform similar functions. Behavioral, physiological, and biochemical solutions to problems imposed on invertebrate and vertebrate animals by their environment.

P: Biology 201/202 with at least a C grade and Biology 203/204 with at least a C grade and Chem 212; OR transfer cse Biology 002 and Chem 212.

Spring.

**BIOLOGY 353. Invertebrate Biology. 4 Credits.**

Survey of invertebrate animals. A phylum-by-phylum survey examining defining characters, structure, function, life cycles, and ecology of invertebrate animals. Lab focuses on identification of invertebrates living in Wisconsin.

P: Biology 201/202 with at least a C grade and Biology 203/204 with at least a C grade, or transfer course Biology 002..

Fall Odd.

**BIOLOGY 355. Entomology. 3 Credits.**

Structure, function, diversity, and ecology of insects, as well as their impact on human society. Lab develops ability to identify Wisconsin insects, both in the field and by examining microscopic anatomy.

P: Biology 201/202 with at least a C grade and Biology 203/204 with at least a C grade, or transfer cse Biology 002; REC: Biology 353.

Fall Even.

**BIOLOGY 402. Advanced Microbiology. 4 Credits.**

Study of viruses, bacteria, and viruses in relationship to their environment.

P: Biology 302 with at least a C grade; Math 260 with at least a C grade; AND Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Spring Even.

**BIOLOGY 407. Molecular Biology. 3 Credits.**

Molecular approaches to biological problems, emphasizing study of informational macro molecules. Topics include replication, control, expression, organization, and manipulation of genes; RNA processing; protein processing; transposons; oncogenes, growth factors; genetic control of development and the immune system.

P: Biology 303 with at least a C grade or Chem 330 with at least a C grade; REC: Chem 300 or 303.

Spring Odd.

**BIOLOGY 408. Molecular Biology Laboratory. 1 Credit.**

Molecular biology of nucleic acids and the techniques that form the basis of biotechnology. Topics include electrophoresis, restriction mapping, hybridization, plasmid analysis, and DNA cloning (recombinant DNA library construction, screening, and mapping).

P: Biology 407 or conc enr or Chem 407 or conc enr; and Env Sci 207 or conc enr of Hum Biol 207 or conc enr. REC: Chem 301 or 305.

Spring Odd.

**BIOLOGY 410. Developmental Biology. 3 Credits.**

This course covers both the classical experiments that contributed to our understanding of developmental biology and the recent explosion of information about development made possible by a combination of genetic, cellular, and molecular approaches. Examples from vertebrate, invertebrate, and plant systems will be used to illustrate underlying principles and concepts. Topics include axis formation, induction, morphogenesis, embryonic pattern formation, cell differentiation, and organogenesis.

P: Biology 303 or 307 or Hum Biol 310 with at least a C grade.

Spring.

**BIOLOGY 411. Developmental Biology Laboratory. 1 Credit.**

Laboratory will introduce descriptive and experimental embryological techniques using a variety of model organisms.

P: Biology 410 with at least a C grade or concurrent enrollment; AND Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Spring.

**BIOLOGY 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**BIOLOGY 490. Biology Seminar. 1 Credit.**

This course provides a capstone experience for upper-level students majoring in biology. Class activities introduce students to academic and professional infrastructures, career opportunities, and major conceptual issues in the biological sciences. During a significant part of the course, students will read and discuss current articles from the primary sci

P: Biology major with jr st

Fall and Spring.

**BIOLOGY 495. Research in Biology. 1-5 Credits.**

Work closely with a faculty member to plan, perform, evaluate, and report on laboratory research in biology or related area.

P: Hum Biol 207 or Env Sci 207 and approval by faculty mentor.

Fall and Spring.

**BIOLOGY 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**BIOLOGY 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**BIOLOGY 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Business Administration (BUS ADM)



## Courses

### **BUS ADM 202. Business and Its Environment. 3 Credits.**

The major components of the business enterprise and its resources, competitive and regulatory environment; pricing, profit, finance planning, controls, ethics, environmental impact, social responsibility and other important concepts; environmental issues that challenge the business leader.

Fall Only.

### **BUS ADM 206. Law and the Individual. 3 Credits.**

The American legal system; its principles, processes, language, ethics and laws from the viewpoint of the individual, including family, personal injury, property, consumer, privacy, probate and administrative laws.

Fall and Spring.

### **BUS ADM 210. Professional Skills for Your Career. 1 Credit.**

Students learn how to search for careers that are personally satisfying and how to develop important professional skills, including: creating a successful resume; effective professional correspondence; appropriate business phone and email etiquette; developing interview and presentation skills; and networking.

P: Junior status

Fall and Spring.

### **BUS ADM 216. Business Statistics. 4 Credits.**

The course examines descriptive statistics, sampling and sampling distributions, hypothesis testing, independent and paired t-tests, analysis of variance, regression, chi-square, and variance comparisons. The course will also insure students are literate in computer-based statistical packages (e.g., SPSS, SAS, or Minitab).

P: Math 101 or Math Placement of Math 101/260 or greater.

Fall and Spring.

### **BUS ADM 282. Personal Financial Planning. 3 Credits.**

Exploration and functional analysis of consumers' financial needs and problems in our modern and complex society; learning to formulate financial goals, implement and monitor them through specific plans, financial functions such as budgeting, investing, financing, protecting and distributing wealth; philosophies and values of consumers; legal aspects of consumer rights.

Fall and Spring.

### **BUS ADM 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

### **BUS ADM 305. Legal Environment of Business. 3 Credits.**

Laws affecting business, emphasizing the Uniform Commercial Code. Introduction to law and the legal process, contracts, agency, property, landlord-tenant and real estate laws, sales and consumer protection laws, secured transactions, negotiable instruments, corporation and partnership law, and estate and bankruptcy law.

P: earned cr > or = 36 and gpa > or = 2.50; or major/minor in Bus Adm or major/minor in Acctg or spl clsf of PBM or gr st.

Fall and Spring.

### **BUS ADM 306. Business Law. 4 Credits.**

Builds upon basic concepts covered in Bus Adm 305 to further explore the legal implications of business transactions. Deals with federal and widely adopted uniform law. Topics include corporate law with an emphasis on traditional state law regulation of the corporation, trusts and wills, real property law, contracts for the sale of goods, debtor and creditor relations, and Commercial Paper.

P: Bus Adm 305 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

### **BUS ADM 322. Introductory Marketing. 3 Credits.**

The marketing system and the managerial techniques used to market goods, services and organizations. Relationships between marketing activities and economic, political and social institutions; understanding consumer behavior; product, price, promotion and distribution decisions.

P: Sophomore status

Fall and Spring.

### **BUS ADM 327. Selling and Sales Management. 3 Credits.**

Principles and techniques of successful selling that lead to a mutually profitable relationship between salesperson and customer. The nature and scope of sales management: selecting and training sales personnel, importance of customer satisfaction, relationship of company philosophy to the sales force, fundamentals of communication processes.

P: Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall Only.

**BUS ADM 343. Corporation Finance. 3 Credits.**

Organization of basic financial management functions and principles for business; management of fixed and working capital; short-term and long-term financial planning through investment and financing decisions; domestic and international money and capital markets; ethical issues relating to business financial management.

P: Acctg 300 and sophomore status

Fall and Spring.

**BUS ADM 344. Real Estate Principles. 3 Credits.**

Nature of real estate ownership, importance of land contracts, title transfer, and mortgage instruments; real estate valuation, finance and investment; impacts of taxation, insuring, marketing, and laws affecting real estate (not intended to prepare students for real estate licensing examination).

P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Spring.

**BUS ADM 345. Risk Management and Insurance. 3 Credits.**

Nature of risks, principal techniques of risk management and the bases for making decisions with respect to the management of personal and business risks.

P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall Only.

**BUS ADM 347. Financial Markets and Institutions. 3 Credits.**

Role of financial markets and institutions in forming and managing financial resources; examination and analysis of financial intermediation; organization and functions of the U.S. and international financial systems; structure and investment management strategies of specific financial institutions (such as banks, thrift, insurance and investment companies).

P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**BUS ADM 350. Business Computer Applications. 3 Credits.**

Business Computer Applications is designed to give students hands-on experience with popular software applications. The course also covers current introductory topics in computing such as computer software & hardware, internet, network security, databases, and ethics in IS among others.

P: Sophomore status

Fall and Spring.

**BUS ADM 362. Introduction to Human Resource Management. 3 Credits.**

Personnel management: human resource planning, recruitment, selection, training, motivation, fringe benefits, salary and wages, labor relations, and performance evaluation.

P: BUS ADM 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**BUS ADM 382. Introductory Management. 3 Credits.**

The realities of management in contemporary situations, emphasizing the functional approach; understanding the management environment; knowledge required by managers to function effectively and adjust to rapid changes.

P: Sophomore status

Fall and Spring.

**BUS ADM 384. Introduction to Supply Chain Management. 3 Credits.**

This is an introductory course in supply chain management (SCM). This course allows students to understand both the components of supply chain management and its role within the function and across other functions in an enterprise. The objective of supply chain management is to create value, build a competitive infrastructure, leverage worldwide logistics, synchronize supply with demand, and measure performance globally. Logistics is part of the supply chain, which deals with storage and distribution of goods and services, in the right quantity, right condition, at the right time, and in the right place. The goal of this course is to provide a high-level overview of the supply chain function and related concepts, and to provide an understanding of activities involved. This course will also provide a basic understanding of the analytical tools and applications used in SCM. The course will introduce students to some challenges in managing global supply chains. The course will also provide an opportunity to students to work in teams, explore a real life situation related to concepts taught in the class, and do a research project.

P: BUS ADM 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

**BUS ADM 389. Organizational Behavior. 3 Credits.**

A micro organizational behavior course examining motivation, leadership, job satisfaction, learning, group dynamics, and stress in the organizational setting.

P: Sophomore status

Fall and Spring.

**BUS ADM 391. Introduction to Entrepreneurship and Innovation. 3 Credits.**

The course is designed to provide a global introduction to the process of turning an idea into a successful startup enterprise. There will be a special emphasis on business plan development and its use as a management tool.

Fall and Spring.

**BUS ADM 421. International Marketing. 3 Credits.**

The course is designed to help students explore the global market via the disciplines of economics, cultural studies, geography, history, languages, jurisprudence, demographics, politics, and many others. The opportunities and the threats that emanate from the global marketplace are highlighted, and the need for an international marketing approach on the part of individuals and institutions is emphasized.

P: Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**BUS ADM 423. Advertising. 3 Credits.**

Developing and executing advertising campaigns; how these campaigns fit into the total marketing mix; social, legal, and economic considerations and constraints involved in the advertising campaign planning process.

P: Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**BUS ADM 424. Marketing Research. 3 Credits.**

Techniques of obtaining and analyzing information about marketing problems; obtaining and interpreting data from primary and secondary sources for marketing decisions.

P: Math 260 or Bus Adm 216 or Comm Sci 205; and Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall Only.

**BUS ADM 426. Marketing Management. 3 Credits.**

Advanced level course in marketing. Strategic interrelationships, development of analytical techniques and abilities and decision making in marketing.

P: Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Spring.

**BUS ADM 427. Practicum in Marketing Research. 3 Credits.**

Provides students with an opportunity to apply their knowledge of marketing research in hands-on fashion. Students will be doing comprehensive marketing research projects on behalf of area businesses.

P: Bus Adm 424.

Spring.

**BUS ADM 428. Consumer Behavior. 3 Credits.**

Theories of buyer behavior, including ultimate and industrial customers, and their implications for marketing management.

P: Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**BUS ADM 442. Principles of Investment. 3 Credits.**

Fundamental concepts, theories, and techniques relating to investing; securities markets, investment vehicles and environments, economic, industry and security analyses, portfolio construction and management; active and passive investment strategies; global investment perspectives and their impacts on investors; blend of facts and theories relating to traditional and modern portfolio approaches; ethics in investment decisions; applied computer-assisted investment decisions.

P: Bus Adm 343 and Bus Adm 216 or Comm Sci 205 or Math 260 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

**BUS ADM 445. International Financial Management. 3 Credits.**

Conceptual framework and applications of financial management decisions of multinational firms in a global setting; survey of the international financial environment; determinants of international portfolio and direct investment capital flows; assessment and management of impacts of foreign exchange and hedging strategies; impacts of international factors on capital budgeting and financial structure decisions; multinational money and capital markets; taxation of international business.

P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Bus Adm 442.

Spring.

**BUS ADM 446. Advanced Corporation Finance. 3 Credits.**

Short-term and long-term financial decisions under risk and uncertainty; financial analysis planning and control; in-depth coverage of theories and applications of capital structure, cost of capital, dividend policies; working capital management; long-term financing decisions; valuation of mergers and acquisitions; international capital budgeting.

P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Bus Adm 442

Fall and Spring.

**BUS ADM 447. Derivatives. 3 Credits.**

Coverage of derivative products such as: forwards, futures, options, and swap contracts on commodities, interest rates and equities, as well as the markets in which they trade. Fundamental pricing relationships, trading strategies, and risk management, use of the Binomial Options pricing model and the Black-Scholes model to price derivatives. Exploration of different options strategies, put-call parity, and role of derivatives in portfolio management, option Greeks such as: delta, gamma, vega, theta, and rho.

P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Spring.

**BUS ADM 450. Bank Administration. 3 Credits.**

Commercial banking theories and practices from a financial management perspective; operations, administration, overall asset-liability management of commercial banks, including bank services, credit and loan pricing and analysis, investment portfolio problems, profitability, cost control, and capital budgeting and analysis; implications of deregulation or re-regulation on the financial industry.

REC: Bus Adm 442 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall Only.

**BUS ADM 452. Advanced Microcomputer Business Applications. 3 Credits.**

Use of computer technology in management decision-making using Microsoft Excel. Review and application of managerial decision-making models.

P: Bus Adm 216 or Math 260 or Comm Sci 205; and Bus Adm 350 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**BUS ADM 460. Training and Development. 3 Credits.**

This seminar focuses on the primary functions of Human Resource Development--training and development, career development, and organizational development. Activities and processes to assist an organization in becoming a learning organization are addressed.

P: Bus Adm 362 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Spring.

**BUS ADM 462. Seminar in Human Resource Management. 3 Credits.**

Analysis of human resource problems and issues and their translation into corporate policies; urban, cultural and legal realities in human resource matters; decisions affecting the development and management of human resource policies.

P: Bus Adm 362 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Spring.

**BUS ADM 467. Compensation and Benefits Planning. 3 Credits.**

Theories of compensation and work motivation and their impact on various reward systems and the rationale for decisions affecting the selection of benefits.

P: Bus Adm 362 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall Only.

**BUS ADM 472. Leadership Development. 3 Credits.**

The course examines contemporary ideas of leadership and issues leaders will face in guiding the organization of the future. The topic is addressed from the perspective of skills and abilities that can be acquired and applied by the student. Theoretical concepts are tied into practice through a course project in the University or the community. The course is structured in a seminar format with an emphasis on discussion.

P: Bus Adm 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**BUS ADM 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**BUS ADM 481. Entrepreneurship & Small Business Management. 3 Credits.**

This course is designed to (1) provide students with classroom learning and practical application (via readings and research) of entrepreneurship and small business management, and (2) show students the vastness of knowledge that a small business owner needs to have including practical tools for understanding, creating, and growing a small business and an entrepreneurial environment in the business world. This course provides students with the insight and knowledge needed to become more competent and influential within their business, with their staff, within their industry, and within their communities. It increases students' appreciation and understanding of the many issues that entrepreneurs and small business owners face. Topics covered include failure, creative thinking, intellectual property, business models, strategic planning, investors, business planning, business ownership forms, franchising, buying and selling small businesses, small business marketing, e-commerce, pricing, financial planning, cash flow management, equity vs. debt financing, location, layout and design considerations, the global aspect of entrepreneurship, building (new venture) teams, creating culture, succession, and exit strategies.

P: Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

**BUS ADM 482. Strategic Management. 3 Credits.**

The course focuses on the formulation, selection and implementation of business strategies through assessment of organizational performance; competitive, market and industry analysis; development of strategic positions and identification of strategic opportunities. Students practice strategic thinking for a cross section of business types from small, closely held to corporate, publicly-held, multiple business enterprises. The concepts and ideas of the course are explored through the analysis of case studies.

P: Bus Adm 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**BUS ADM 489. Organizational Culture & Change. 3 Credits.**

A macro organizational behavior course examining organizational environments, structure, power and politics, conflict, innovation, technology, and culture in the organizational setting.

P: Bus Adm 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**BUS ADM 490. Strategic Decision Analysis. 3 Credits.**

Course draws on the conceptual, analytical and interpersonal concepts and skills developed throughout the course of study in Business and Accounting. Students participate in a cross-functional, community of practice environment designed to enhance holistic issue resolution.

P: 85-earned credits; Acctg 302, Econ 202, Bus Adm 322, Bus Adm 343, Bus Adm 350 and Bus Adm 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**BUS ADM 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st; and major/minor in Bus Adm or major/minor in Acctg.

Fall and Spring.

**BUS ADM 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**BUS ADM 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Chemistry (CHEM)

### Courses

**CHEM 102. Why There is Antifreeze In Your Toothpaste. 3 Credits.**

This class explores relationships between chemistry and energy, food, medicine, the environment, etc

P: none

Fall and Spring.

**CHEM 108. General Chemistry. 4 Credits.**

Survey of basic concepts of matter: its measurement, properties and states; atomic structure and chemical bonding; solutions; acid-base theories, introduction to organic chemistry and biochemistry.

P: Math 101 or Math Placement of Math 104 or greater, and Chem 109 or conc enr.

Fall and Spring.

**CHEM 109. General Chemistry Laboratory. 1 Credit.**

Laboratory Course that accompanies Chem 108.

P: Chem 108 or concurrent enrollment

Fall and Spring.

**CHEM 211. Principles of Chemistry I. 4 Credits.**

Chemistry and measurement; atoms, molecules, and ions; chemical formulas, equations, and reactions; gaseous state; thermochemistry; quantum theory of the atom; electron configurations and periodicity; ionic and covalent bonding; molecular geometry and chemical bonding; and states of matter; liquids and solids.

P: Math 104 or eq or concurrent enrollment & Chem 213 or concurrent enrollment. Can't repeat until open enrollment begins.

Fall and Spring.

**CHEM 212. Principles of Chemistry II. 4 Credits.**

Solutions; kinetics; chemical equilibrium; acids and bases; acid-base equilibrium, solubility and complex ion formation; thermodynamics and equilibrium; electrochemistry; and nuclear chemistry.

P: Math 104 with at least a C grade or Math Placement of Math 202 or greater; and Chem 211 and 213 with at least a C grade; and conc enr in Chem 214.

Fall and Spring.

**CHEM 213. Principles of Chemistry I Laboratory. 1 Credit.**

Laboratory Course that accompanies Chem 211.

P: Chem 211 or concurrent enrollment

Fall and Spring.

**CHEM 214. Principles of Chemistry II Laboratory. 1 Credit.**

Laboratory Course that accompanies Chem 212

P: Chem 212 or concurrent enrollment

Fall and Spring.

**CHEM 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**CHEM 300. Bio-Organic Chemistry. 3 Credits.**

Those aspects of the field pertinent to students entering the biologically related disciplines: Basic organic chemistry, natural products and molecules important to biological systems. Full credit not given for both Chem 300 and Chem 302 or Chem 303.

P: Chem 212 & 214 with at least a C grade or Chem 108 & 109 with at least a C grade.

Spring.

**CHEM 301. Bio-Organic Chemistry Laboratory. 1 Credit.**

Optional laboratory course to accompany Chem 300. Credit not granted for both Chem 301 and 304.

P: Chem 300 or conc enr; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Spring.

**CHEM 302. Organic Chemistry I. 3 Credits.**

The chemistry of carbon compounds: structure, reactions, synthesis, stereochemistry, reaction mechanisms, spectroscopy, nomenclature and physical properties of both aliphatic and aromatic compounds; covers all common functional groups and natural products. Full credit will not be awarded for both Chem 300 and 302 or 303.

P: Chem 212 and 214 with at least a C grade.

Fall and Spring.

**CHEM 303. Organic Chemistry II. 3 Credits.**

The chemistry of carbon compounds: structure, reactions, synthesis, stereochemistry, reaction mechanisms, spectroscopy, nomenclature and physical properties of both aliphatic and aromatic compounds; covers all common functional groups and natural products. Full credit will not be awarded for both Chem 303 and 300.

P: Chem 302 with at least a C grade.

Fall and Spring.

**CHEM 304. Organic Chemistry Laboratory I. 1 Credit.**

Basic and intermediate synthesis, basic and intermediate instrumental techniques in organic chemistry. Credit will not be granted for both Chem 304 and 301.

P: Chem 212 and 214 with at least a C grade; and Chem 302 with at least a C grade or conc enr.; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall and Spring.

**CHEM 305. Organic Chemistry Laboratory II. 1 Credit.**

Basic and intermediate synthesis, basic and intermediate instrumental techniques in organic chemistry.

P: Chem 303 or conc enr; and Chem 304 with at least a C grade; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall and Spring.

**CHEM 311. Analytical Chemistry. 4 Credits.**

Theory and practice of chemical analysis. Statistics; gravimetric analysis; acid-base chemistry; precipitation, complexometric and redox titrations; electrochemistry; spectrophotometry; atomic absorption; emission methods; separation methods (gas/liquid chromatography).

P: Chem 212 and 214 with at least a C grade; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Spring.

**CHEM 320. Thermodynamics and Kinetics. 3 Credits.**

Temperature, heat and work, thermodynamic properties of gases, solids and solutions; homogeneous and heterogeneous equilibria; thermodynamics of electrochemical cells; statistical thermodynamics; calculation of thermodynamic properties; chemical kinetics.

P: Chem 212 and 214 with at least a C grade and Physics 202 with at least a C grade and Math 203 with at least a C grade.

Fall Only.

**CHEM 321. Structure of Matter. 3 Credits.**

Integrated approach to the concepts of physical chemistry and modern physics: introduction to quantum theory, symmetry, atomic and molecular structure, spectroscopy, X-rays, properties of gases, liquids and solids.

P: Chem 212 and 214 with at least a C grade and Physics 202 with at least a C grade and Math 203 with at least a C grade.

Spring.

**CHEM 322. Thermodynamics and Kinetics Laboratory. 1 Credit.**

Laboratory course to accompany Chem 320.

P: Chem 320 or conc enr or Physics 320 or conc enr.; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall Only.

**CHEM 323. Structure of Matter Laboratory. 1 Credit.**

Laboratory course to accompany Chem 321.

P: Chem 321 or conc enr or Physics 321 or conc enr.; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Spring.

**CHEM 330. Biochemistry. 3 Credits.**

Nature and function of the important constituents of living matter, their biosynthesis and degradation; energy transformation, protein synthesis and metabolic control.

P: Chem 303 with at least a C grade (or concurrent enrollment) and Biology 201/202 with at least a C grade; or Chem 300 with at least a C grade and 301 with at least a C grade and Biology 201/202 with at least a C grade.

Fall Only.

**CHEM 331. Biochemistry Laboratory. 1 Credit.**

Laboratory course to accompany Chem 330.

P: Chem 330 or conc enr.; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall and Spring.

**CHEM 355. Chemistry in the World. 3 Credits.**

Focuses on chemistry of modern issues: air pollution, atmospheric ozone, global warming, energy utilization, water as a natural resource, acid rain, and nuclear energy.

P: Math 101.

**CHEM 402. Advanced Organic Chemistry. 3 Credits.**

Advanced study of the structures of organic compounds, synthetic strategies, and the mechanisms of reactions will be emphasized. Topics will include molecular orbital theory, stereochemistry, linear free energy relationships, isotope effects, and natural and pharmaceutical products, among others.

P: Chem 303 with at least a C grade

Fall Odd.

**CHEM 403. Advanced Organic Chemistry Laboratory. 1 Credit.**

Synthesis of a natural pharmaceutical product. Learn the modern strategies and techniques involved in multi-step organic synthesis; run reactions, purify products, and use instruments to characterize products.

P: CHEM 305 with a C or better; Envi Sci 207 or Hum Bio 207 with a C or better.

Fall Odd.

**CHEM 407. Molecular Biology. 3 Credits.**

Molecular approaches to biological problems, emphasizing study of informational macro molecules. Topics include replication, control, expression, organization, and manipulation of genes; RNA processing; protein processing; transposons; oncogenes, growth factors; genetic control of development and the immune system.

P: Biology 303 with at least a C grade or Chem 330 with at least a C grade; REC: Chem 300 or 303.

Spring Odd.

**CHEM 408. Molecular Biology Laboratory. 1 Credit.**

Molecular biology of nucleic acids and the techniques that form the basis of biotechnology. Topics include electrophoresis, restriction mapping, hybridization, plasmid analysis, and DNA cloning (recombinant DNA library construction, screening, and mapping).

P: Biology 407 or conc enr or Chem 407 or conc enr; and Env Sci 207 or conc enr of Hum Biol 207 or conc enr. REC: Chem 301 or 305.

Spring Odd.

**CHEM 410. Inorganic Chemistry. 3 Credits.**

Survey of the elements including coordination and organometallic compounds. Modern bonding theories, group theory and periodic properties extended and applied to chemical systems and reactions. General acid-base theory and non-aqueous solvent systems.

P: Chem 212 and Chem 302 with at least a C grade; REC: Chem 303.

Spring Odd.

**CHEM 411. Inorganic Chemistry Laboratory. 1 Credit.**

Laboratory course to accompany Chem 410.

P: Chem 410 or conc enr.; Chem 304 with at least a C grade; Env Sci 207 or conc enr of Hum Biol 207 or conc enr.; REC: Chem 305

Spring Odd.

**CHEM 413. Instrumental Analysis. 4 Credits.**

Theory and practice of analysis by instrumental methods, including methods based on absorption and emission of radiation, electroanalytic methods, chromatographic methods and surface analysis methods.

P: Chem 311 with at least a C grade; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr. REC: Chem 303.

Fall Only.

**CHEM 417. Nuclear Physics and Radiochemistry. 3 Credits.**

Properties and reactions of atomic nuclei; application of the properties of radioactive nuclei to the solution of chemical, physical, biological and environmental problems.

P: Chem 212 and 214 with at least a C grade and Physics 202 with at least a C grade: REC: Chem 321.

Fall Odd.

**CHEM 420. Polymer Chemistry. 3 Credits.**

An introduction to the synthesis, characterizations, and properties of industrial polymers.

P: Chem 300 or 303 or 321 or Physics 321.

Fall Even.

**CHEM 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**CHEM 495. Research in Chemistry. 1-5 Credits.**

P: Chem 413.

Fall and Spring.

**CHEM 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**CHEM 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**CHEM 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Communication (COMM)

### Courses

**COMM 102. Introduction to Communication. 3 Credits.**

Communication is the means by which individuals learn about themselves and the world around them. This course is an introduction to Communication, which emphasizes the understanding of messages in various settings, including interpersonal, small group, organizational, and mass communication. Such topics as the interplay between American society and mass media are discussed.

Fall Only.

**COMM 133. Fundamentals of Public Address. 3 Credits.**

Examination of the principles of oral message preparation and presentation. Students will prepare and present actual public communications.

Fall and Spring.

**COMM 166. Fundamentals of Interpersonal Communication. 3 Credits.**

Principles of personal interaction as a basis of communication: role of communication in interpersonal relationships; role of identity and self-concept in communication behavior; significance of information reception and evaluation in the effectiveness of communication.

Fall and Spring.

**COMM 185. Business and Media Writing. 3 Credits.**

Business and Media Writing teaches students basic business and media writing skills; resumes, business proposals, memos, reports, press releases, fact sheets, and electronic communications.

Fall and Spring.

**COMM 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.



**COMM 205. Elements of Media. 3 Credits.**

Exploring contemporary commercial media; analyzing the business and creative forces behind motion pictures, television, radio and new media; examining regulatory and ethical issues; identifying visual components of persuasive media and the communication strategies involved.

Fall Only.

**COMM 237. Small Group Communication. 3 Credits.**

The role communication plays in small group processes; focuses on development of the special communication skills needed in the small group setting.

Fall Only.

**COMM 290. Communication Problems and Research Methods. 3 Credits.**

This course provides students with the necessary critical thinking and research skills to excel in the upper level communication curriculum. The course focuses on creating an understanding of the scientific method and learning how to properly investigate communication problems. Issues covered include how to conduct background research, interview sources, create surveys, conduct focus groups and interpret research results.

P: none; REC: one prior comm cse.

Fall and Spring.

**COMM 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**COMM 302. News Reporting and Writing. 3 Credits.**

Researching, interviewing and writing various news stories for print and electronic media, with an emphasis on accuracy, fairness, objectivity, and ethics.

P: at least 15 credits of core supporting courses in Communication

Fall and Spring.

**COMM 303. Feature Writing. 3 Credits.**

Researching, reporting, writing, interviewing, and editing several types of feature stories for both newspapers and magazines. There is also an emphasis on marketing newspaper and magazine features.

P: at least 15 credits of core supporting courses in Communication

Fall Only.

**COMM 306. Radio Broadcasting. 3 Credits.**

Commercial and non-commercial radio as a communications medium and as a business enterprise: radio audiences, audience ratings, programming and program formats, news, advertising, promotion and sales.

P: at least 15 credits of core supporting courses in Communication

Fall Only.

**COMM 307. Television Production Techniques. 3 Credits.**

Exploration of various uses of television as an informative, persuasive, and entertainment medium. Combines analysis of current uses of the medium in a professional context with practical experience in planning and producing a finished product for television.

P: at least 15 credits of supporting core courses in Communication

Fall and Spring.

**COMM 308. Information Technologies. 3 Credits.**

A survey of information technologies, their operations and limitations, and how the major electronic technologies are changing and affecting both the workplace and the household.

P: at least 15 credits of supporting core courses in Communication or declared program in Information Sciences

Spring.

**COMM 309. Mass Media Advertising. 3 Credits.**

TV/media/Internet advertising as a unique form of communication. Through the use of both individual and team/group projects, the demands and rigors of the strategic creative process are revealed. Legal, ethical and Internet considerations are also discussed.

P: at least 15 credits of core supporting courses in Communication

Fall Only.

**COMM 322. Modern Linguistics. 3 Credits.**

Structure and system in language, with attention to modern English and including principles of structural, computational and generative-transformational linguistics.

P: none; REC: Hum Stud 160.

Fall Only.

**COMM 333. Persuasion and Argumentation. 3 Credits.**

Awareness, appreciation, understanding, and skill in contemporary forms and methods of oral persuasion and argumentation.

P: at least 15 credits of supporting core courses in Communication

Spring.

**COMM 335. Organizational Communication. 3 Credits.**

Communication in the modern organization: communication variables in the context of organizational theory; development of a systems perspective regarding functions, structures and levels of communication in the organization; use of evaluation tools and training strategies.

P: at least 15 credits of core supporting courses in Communication

Fall Only.

**COMM 336. Theories of the Interview. 3 Credits.**

Basic theory behind conducting effective interviews. Specific types of interviews are discussed, such as selection, counseling, exit, discipline, appraisal, mass media and research interviews, from both the interviewer's and the interviewee's perspective.

P: at least 15 credits of core supporting courses in Communication

Fall Only.

**COMM 340. Mediation and Conflict Resolution. 3 Credits.**

The student and practice of alternative dispute resolution strategies. Mediation is emphasized as the primary third-party conflict intervention strategy. Students are certified as basic mediators.

P: at least 15 credits of core supporting courses in Communication

Fall Only.

**COMM 353. Practicum in Print Journalism I. 3 Credits.**

Supervised hands-on experience as a staff member of the Fourth Estate, the campus newspaper. Provides opportunities for in-depth study of one facet of newspaper operation: newswriting, feature writing, photojournalism, layout, management or editing. Involves one-on-one work with professor and editor.

P: Eng Comp 100 or 164 or ACT English score of 25 or higher; REC: Comm 203 or 243 or Art 243.

Fall and Spring.

**COMM 366. Media Planning and Selling. 3 Credits.**

This course examines the processes used in connecting advertisers' messages with their target audiences. Through lecture, readings, and two case studies, students prepare and present a comprehensive media plan and a media sales package. Traditional media channels (e.g., newspapers, TV) and new media (e.g. the Internet) are included.

P: at least 15 credits of core supporting courses in Communication

Spring.

**COMM 375. Communication Skills: Language of Metaphor. 3 Credits.**

Examines metaphors and the metaphoric process and seeks to develop skills in creating and understanding metaphors, especially those that have become an unconscious part of our language and culture.

P: none; REC: Gen Ed req in Arts & Humanities.

Spring.

**COMM 380. Communication Law. 3 Credits.**

Freedom of the press and broadcast media, problems of gag orders, contempt, privacy, censorship, libel and slander. Overview of copyright law, the Federal Communications Act and other laws affecting communication.

P: at least 15 credits of core supporting courses in Communication

Spring.

**COMM 381. Principles of Public Relations/Corporate Communications. 3 Credits.**

An overview of topics, issues, concepts, and practices of public relations/corporate communications; individual and group case work.

P: at least 15 credits of core supporting courses in Communication

Fall and Spring.

**COMM 382. Public Relations Writing. 3 Credits.**

This course provides students with professional preparation for the writing required for a public relations career. Students will learn strategies for creating, delivering, and evaluating the many different types of P.R. writing, including social media, news releases, media kits, PSAs, magazine queries, newsletters, pitches and backgrounders.

P: at least 15 credits of core supporting courses in Communication

Spring.

**COMM 396. Advanced Reporting. 3 Credits.**

Development of advanced-level reporting, interviewing, writing, and editing of investigative stories, in-depth articles, and copy for the new world of online journalism.

P: at least 15 credits of core supporting courses in Communication

Fall Only.

**COMM 425. Digital Journalism. 3 Credits.**

Development of advanced-level reporting, conceptualizing, writing and editing news stories suited for the digital journalism world.

P: at least 15 credits of core supporting courses in Communication

Spring.

**COMM 430. Information, Media and Society. 3 Credits.**

The role of information in society, including interpersonal, mass, and institutional sources, in producing a range of effects on individuals, groups, and society as a whole; critical examination of the changing information environment in legal, economic, political, and social contexts.

P: at least 15 credits of core supporting courses in Communication or declared student in Information Sciences.

Spring.

**COMM 440. Service Learning in Conflict Resolution. 3 Credits.**

This course is designed to meet the upper-level requirement of the Communication emphasis in Conflict Resolution or the Culminating Application Experience requirement of the Peacebuilding and Conflict Resolution Certificate Program. The course integrates the students' prior learning in alternative dispute resolution to applied settings. Students will participate in applied experiences in selected public or private organizations in the community or in campus-related programs to make use of their conflict resolution training.

P: Comm 340

Spring.

**COMM 445. Human Communication Theory. 3 Credits.**

Integration of a variety of theories to promote sensitivity to and understanding of the complexity of human communications; examines the construction of various communication theories, contexts and processes in communication.

P: at least 15 credits of core supporting courses in Communication

Spring.

**COMM 453. Practicum in Print Journalism II. 3 Credits.**

Supervised hands-on experience on the staff of the Fourth Estate, the campus newspaper. Provides opportunities for developing advanced skills in some facet of newspaper operation: reporting, feature writing, photojournalism, layout, editing, or management. Involves one-on-one work with professor and editor.

P: Comm 203, 303 or 253; REC: prior experience on 4th Estate.

Fall and Spring.

**COMM 474. Media Workshop I. 3 Credits.**

Supervised hands-on experience as a staff member of the Fourth Estate, the campus newspaper. Students become part of a hybrid newsroom in order to experience the worlds of online, social media and print journalism and PR. Students will apply the skills learned in previous Journalism and PR courses: newswriting, feature writing, photojournalism, videojournalism, layout, management, editing, designing and implementing PR campaigns. Involves one-on-one work with professor and editors.

P: at least 15 credits of core supporting courses in Communication

Fall and Spring.

**COMM 475. Media Workshop II. 3 Credits.**

Supervised hands-on experience as a staff member of the Fourth Estate, the campus newspaper. Students become part of a hybrid newsroom in order to experience the worlds of online, social media and print journalism and PR. Students will apply the skills learned in previous Journalism and PR courses: newswriting, feature writing, photojournalism, videojournalism, layout, management, editing, designing and implementing PR campaigns. Involves one-on-one work with professor and editors.

P: at least 15 credits of core supporting courses in Communication

Fall and Spring.

**COMM 477. Social Media Strategies. 3 Credits.**

This course provides an overview of social media strategies. It will focus on the interconnections between a) historical ideas about strategy, b) networking principles, and c) contemporary research on social media. Particular emphasis is placed on evaluating and creating social strategies for various objectives.

P: at least 15 credits of core supporting courses in Communication

Fall and Spring.

**COMM 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**COMM 480. Cases in Communications and Media Management. 3 Credits.**

This course examines the strategies and practices of communications and media management in organizations. Students integrate their knowledge of oral, written, and visual communication to solve real-world cases.

P: at least 15 credits of core supporting courses in Communication

Spring.

**COMM 495. Teaching Assistantship. 3 Credits.**

Students will learn the successful components related to successful instruction, including theoretical perspectives, empirical research, and pedagogical techniques relating to teaching that they can apply to a broad array of future teaching and learning experiences.

P: Jr. st.

Fall and Spring.

**COMM 496. Research Assistantship. 1-6 Credits.**

Students will assist faculty in conducting research. Responsibilities may include literature reviews, library/Internet investigations, questionnaire development, recruitment and interview of research participants, data collection, management of research studies, data entry and analysis.

P: Jr. st. REC: Comm 200.

Fall and Spring.

**COMM 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**COMM 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**COMM 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Community Sciences (COMM SCI)

### Courses

**COMM SCI 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**COMM SCI 205. Social Science Statistics. 4 Credits.**

Application of statistics to problems of the social sciences and of statistical techniques in problem definitions; hypothesis construction; and data collection, processing and evaluation.

Fall and Spring.

**COMM SCI 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**COMM SCI 301. Foundations for Social Research. 3 Credits.**

An integrated examination of the nature of science, theory and statistics. Emphasizes identifying and interpreting relationships between social phenomena by applying the conceptual tools provided in the course to specific problems.

P: Comm Sci 205 or Math 260 or Bus Adm 216.

Fall and Spring.

**COMM SCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Computer Science (COMP SCI)

### Courses

**COMP SCI 201. Introduction to Computing & Internet Technologies. 4 Credits.**

Introduction to the history of computing, overview of computers, how they work, and relevant applications, especially to web site creation. Introduction to procedural programming and an emphasis on ASP.NET using Microsoft Web Development tools part of the Microsoft Visual Studio.NET programming environment, the basics of HTML, CSS, and JavaScript.

Fall and Spring.

**COMP SCI 221. Database Design & Management. 3 Credits.**

This introductory course focuses on how databases and database systems work and how they are used in various data-driven applications. The course covers relational databases, SQL, different ways of designing databases, and management of databases. The course provides hands-on experience with exercises using SQL Server and Microsoft Access and includes group discussions. The course also introduces some advanced topics, including database security, data privacy, data analytics, and big data. Working knowledge of Microsoft Office suite and Windows is required for this course.

Fall Only.

**COMP SCI 231. Introduction to IT Operations. 3 Credits.**

This course covers the basic knowledge and skills needed to plan, design, control and monitor Information Technology services and infrastructure. Topics include the fundamentals of asset management, service provisioning, and functional operations. This course serves as an introduction to careers in the IT field.

Fall Only.

**COMP SCI 232. Introduction to Mobile Platforms and Apps. 3 Credits.**

An introduction and survey to the world of mobile computing. Each student will design, develop and produce their own app. Topics covered will include areas such as models of mobile information, GPS services, social networking, casual gaming, networked games, business apps, and information gathering -- all from the perspective of mobile platforms.

Fall Only.

**COMP SCI 240. Discrete Mathematics. 4 Credits.**

Study of topics in mathematics that do not depend upon the limit process, including: number systems, set theory, logic, counting techniques, matrix manipulation, recursion, mathematical induction, graph theory, recurrence relations, and finite state machines. Techniques, computations, and data representations to facilitate problem-solving by hand and by computer.

Fall and Spring.

**COMP SCI 256. Introduction to Software Design. 4 Credits.**

Students will learn a language common to software design and be introduced to software design techniques. This includes the problem statement, solution design, program testing, implementation, debugging, and final documentation.

P: Comp Sci 201 with at least a C grade and Math 104 or Math Placement of Math 202 or greater.

Fall and Spring.

**COMP SCI 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**COMP SCI 316. Advanced Software Design. 4 Credits.**

A continuation of COMP SCI 256, this course deals with larger projects, more complex problems, and group work. It introduces linear data structures and their implementations. It also develops the object oriented design paradigm to include inheritance and polymorphism.

P: Comp Sci 256 with at least a C grade.

Fall and Spring.

**COMP SCI 331. Internet Programming. 3 Credits.**

The purpose of the course is to familiarize students with current Internet technologies to create dynamic database-driven web sites. The emphasis is on server-side programming and on practical Web development techniques and skills.

P: Comp Sci 201 and 316 with at least a C grade.

Spring.

**COMP SCI 351. Data Structures. 4 Credits.**

Concepts involved in storage, retrieval and processing data. Emphasis is on the design of software with complex data retrieval needs and on non-linear structures such as generalized lists, trees, and graphs.

P: Comp Sci 240 with a C grade or better or concurrent enrollment AND Comp Sci 316 with a C grade or better AND Comp Sci 371 with a C grade or better.

Spring.

**COMP SCI 352. Computer Graphics and Animation. 3 Credits.**

Basic techniques of computer graphics, such as point and line plotting, clipping and windowing using the OpenGL platform. Use of graphics hardware; construction of graphics packages. Basic animation techniques.

P: Comp Sci 240 and 371 with at least a C grade.

Spring Odd.

**COMP SCI 353. Computer Architecture and Organization. 3 Credits.**

Data representation, assembly language, procedure call protocols, memory, cache, and bus organizations, comparison of processor architectures, I/O systems, logic circuits, Boolean algebra.

P: Comp Sci 240 and 316 with a C grade or better.

Fall Only.

**COMP SCI 358. Data Communication and Computer Networks. 3 Credits.**

Transmission media, analog and digital signals, modulation, compression, error detection methods, security and encryption protocols, Ethernet standards, TCP/IP protocols, routing algorithms, Internet and streaming applications.

P: Comp Sci 316 with at least a C grade.

Spring Odd.

**COMP SCI 360. Systems Analysis and Project Management. 3 Credits.**

This course explores both traditional and new emerging approaches to systems development, analysis, design, and project management, and also discusses professional and ethical responsibilities.

P: Comp Sci 221 and 331 with at least a C grade.

Fall Only.

**COMP SCI 361. Information Assurance and Security. 3 Credits.**

An exploration of the fundamentals of information assurance and security (IAS). The course will introduce the underlying concepts of IAS in context of today's society. It will explore the security & ethical issues in information and computing from the perspective of today's computing world. It will discuss the appropriate remedies and defense strategies in the wake of today's security threats and attacks. Class topics will focus on physical security, cyber security, network security and software security through lectures and hands on experiments. This course will be of interest to students, who wish to obtain an understanding of the basic principles and practices in IAS. It will cover the fundamental concepts in IAS necessary for understanding the threats to security as well as various defenses against those threats.

Fall Only.

**COMP SCI 371. Advanced Object-Oriented Design. 4 Credits.**

Advanced object oriented design techniques in C++ and C#, including: collection classes, class design and class relationships, inheritance, and polymorphism. Additional coverage of C/C++ topics such as pointers and pointer arithmetic, C strings, dynamic memory management, memory leaks, exception handling and operator overloading. Coverage of C# specific constructs such as properties, events, delegates and the use of the .NET framework.

P: Comp Sci 316 with at least a C grade.

Fall and Spring.

**COMP SCI 372. Software Engineering. 3 Credits.**

Design and programming techniques for large and complex data-driven projects, using C++. Design based on Design Patterns. Use of Software Engineering metrics and formal methodologies. Fundamentals of component-based software development and software deployment techniques.

P: Comp Sci 221, 316 AND 371 with at least a C grade.

Spring.

**COMP SCI 450. Theory of Algorithms. 3 Credits.**

Design, analysis and comparison of algorithms; divide and conquer techniques, greedy method, dynamic programming and smart searching.

Applications to optimization with constraints and decision problems. Theory of computability including examples of NP-complete problems such as the "traveling salesman" problem.

P: Comp Sci 240 and 316 and Math 202, all with at least a C grade.

Fall Odd.

**COMP SCI 451. Database Systems and Big Data Processing. 3 Credits.**

This course covers advanced relational database concepts, data warehousing, and distributed database management systems. It introduces students to unstructured data and NoSQL databases and discusses the basics of real-time storage and processing of massive datasets using Hadoop ecosystems.

The course includes hands-on exercises with Hadoop ecosystem and SQL Server.

P: Comp Sci 221, 240, and 316

Spring.

**COMP SCI 452. Operating Systems Using Linux. 3 Credits.**

Methods and philosophies behind management of computing resources, including: memory management, process management, scheduling, process signaling, process synchronization, mutual exclusion; interprocess communication, introduction to the Linux Operating System and environment, shell scripting, C programming, process management, and message passing.

P: Comp Sci 240 and 316 with at least a C grade.

Fall and Spring.

**COMP SCI 464. Artificial Intelligence. 3 Credits.**

Study of the fundamental types of artificial intelligence, their principal applications, and implementation of simulations on a conventional computer. These include inference systems, expert systems, artificial neural networks, swarm intelligence, genetic programming, evolutionary computing and reinforcement learning.

P: Comp Sci 240 and 316 and Math 202, all with at least a C grade.

Fall Even.

**COMP SCI 474. Game Engines. 3 Credits.**

This course provides students with an introduction to the theory and practice of video game programming. Students will participate in individual hands-on lab exercises, and also work together like a real game development team to design and build their own functional game using an existing game engine (e.g. Unity, Ogre).

P: COMP SCI 240, COMP SCI 232 (or COMP SCI 332) , COMP SCI 371

Spring.

**COMP SCI 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**COMP SCI 490. Capstone Essay in Computer Science. 1-3 Credits.**

A project course in which a student does reading in computer science journals and produces a major research paper.

P: 18 earned upper level cr in Comp Sci.

Fall and Spring.

**COMP SCI 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**COMP SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**COMP SCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Democracy and Justice Studies (DJS)

### Courses

**DJS 101. Introduction to Democracy and Justice Studies. 3 Credits.**

This course will introduce students to a variety of theories about democracy and justice and offer examples of those who have attempted to put democracy and justice into practice.

Fall and Spring.

**DJS 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**DJS 204. Freedom and Social Control. 3 Credits.**

Explores definitions, concepts and theories used to explain and understand central features of social power. Themes include the struggle for social justice, the history of punishment in Western society, and the legal and extralegal management and disciplining of individuals and groups.

Fall and Spring.

**DJS 241. Introduction to Women's & Gender Studies. 3 Credits.**

Interdisciplinary introduction to the study of gender, the influence of gender on social institutions and structures, and an examination of women's lives across the globe historically and today.

Fall and Spring.

**DJS 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**DJS 303. Criminal Justice Process. 3 Credits.**

A study of the components, relations, and processes of U.S. criminal justice. The criminal justice system is theoretically linked to larger social arrangements, including class and race-ethnic stratification. Ethical problems, such as group disparities in arrest and sentencing, are given special attention.

P: Pol Sci 101 and Sociol 202.

Fall Only.

**DJS 307. History of Economic Thought. 3 Credits.**

Historical development of contemporary economic thought from the mercantilist period to the present emphasizing contributions of major schools of economic thought.

P: jr st.

Fall Only.

**DJS 320. Constitutional Law. 3 Credits.**

The course emphasizes the history of constitutional law in the United States through an analysis of leading Supreme Court cases that deal with government authority as well as citizen rights and civil liberties. Special attention is given to the political and historical context of major cases and the implications for public policy.

P: Pol Sci 101.

Fall Only.

**DJS 325. Law and Society. 3 Credits.**

Explores how the courts can either promote or inhibit progressive social, political, and economic changes in contemporary American society. There is a great deal of emphasis placed on how to use theory to better understand the relationship between law and society.

P: History 206 or Pol Sci 100 or 101 or Sociol 202.

Spring.

**DJS 348. Gender and the Law. 3 Credits.**

The changing legal status of women in relationship to other social forces; major historical landmarks in the development of women's legal rights and current status of such areas as property rights, family law and employment opportunity; legal tools in the struggle for equality.

P: sophomore standing

Fall Even.

**DJS 349. American Political Thought. 3 Credits.**

The history and development of American political thought, with attention to the thinkers and themes influential to controversies, ideologies, and institutions in American politics.

P: Pol Sci 101

Spring.

**DJS 353. The U.S. and the World. 3 Credits.**

This course will explore the United States' interactions with the larger world, including its experiments with imperialism, interventionism, and multilateralism, from 1898 to the present. Through our study of both United States foreign policy and the engagement of Americans with global and transnational issues such as the spread of democracy, free trade, peace, human rights, and environmentalism, we will critically gain insights into the democratic ideals of the United States and their implications for the larger global community.

P: History 206 or Pol Sci 100 or Pol Sci 101.

Spring Even.

**DJS 361. Historical Perspectives on American Democracy. 3 Credits.**

Examination of historical thinking in scholarly work and public life and study of the making of modern American freedom, equality and democracy, past and present.

P: Eng Comp 105 or 228; REC: Anthro 100 or Sociol 202; and History 100 or Hum Stud 202.

Fall Only.

**DJS 362. Power and Change in America. 3 Credits.**

Study of the dynamic relations between political economy and social structure and the formation and impact of social movements, politics and ideologies in modern America.

P: Pol Sci 101 or Sociol 202.

Spring Odd.

**DJS 363. Topics in Democracy and Justice. 3 Credits.**

Explores a single theme pertaining to democracy and justice from an interdisciplinary perspective. Variable content.

P: DJS 101.

**DJS 365. U.S. Labor and the Working Class: Past and Present. 3 Credits.**

This course introduces students to the major themes around the history of American working men and women in the nineteenth, twentieth, and twenty-first centuries. The course examines the social and political place of working people as well as cultural practices and how they impacted workers' political consciousness.

Spring.

**DJS 371. Gender and Economic Justice. 3 Credits.**

This course serves as an introduction to the field of contemporary feminist approaches to economics. Questions range from conceptualization of the economy, work, well-being, and the gendered implications of policy at both micro and macro levels. The course includes an examination of contemporary economic inequalities between men and women (also differentiated by race and class), with a focus on the United States.

P: DJS/Wost 241

Spring Even.

**DJS 437. Feminist Theory. 3 Credits.**

This course is an introduction to feminist theories from a variety of disciplinary perspectives; we will examine the development of feminist theories, their practice and contrasting viewpoints.

P: DJS 241.

Spring Even.



**DJS 461. Social and Political Criticism. 3 Credits.**

Operating as a seminar, we examine the role of the American social critic and the practice of social criticism on the political left, right and center. Then, operating as a writing workshop, we compose pieces of political, social and cultural criticism for possible publication.

P: DJS 360 or 361 or Sociol 302 or 307.

Spring.

**DJS 470. Senior Seminar in Democracy and Justice Studies. 3 Credits.**

Rigorous analysis of an important social change issue or of the work of an important social change theorist.

P: DJS 361; and Eng Comp 105 or 228.

Fall and Spring.

**DJS 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**DJS 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**DJS 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**DJS 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Design Arts (DESIGN)

### Courses

**DESIGN 131. Introduction to Design and Culture. 3 Credits.**

The history of the relationship between the consumer, manufacturing and the role design plays in the development of products and other forms of design that impact the economic, environmental and social spheres of contemporary life.

Spring.

**DESIGN 331. Graphic Design Studio I. 3 Credits.**

Problem-solving techniques in graphic communication; development of visual, verbal and project management skills applied in graphic design.

Development of design and technological skills using digital tools.

P: Art 106, 107 and Design 131 with at least a C grade; REC: Art 105 or 243 or Comm 243.

Fall and Spring.

**DESIGN 332. Graphic Design Studio II. 3 Credits.**

Project based problem-solving techniques in graphic communication: expansion of design and technological skills. Intermediate and advanced design techniques using digital design tools.

P: Design 331 with at least a C grade; REC: Comm 166 or 337.

Fall Only.

**DESIGN 431. Graphic Design Studio III. 3 Credits.**

Advanced methods in design research, problem-solving, design theory and technology use applied in graphic design and visual communications.

Perspectives on portfolio development and presentation.

P: Design 332 with at least a C grade.

Fall Only.

**DESIGN 433. Advanced Studio. 3 Credits.**

Applying concepts and skills in graphic design, technology and management in advanced communications design projects such as web development and multimedia authoring.

P: Design 332 with at least a C grade.

Fall and Spring.

**DESIGN 435. Design Arts Publication Workshop. 3 Credits.**

A comprehensive experience in the design and production of a magazine format publication from the early stages of design through to the finished printed product. Combines conventional design skills developed in the graphic communications studios and use of desktop publishing technology.

P: jr st and Design 332 with at least a B grade

Fall and Spring.

**DESIGN 436. Environmental Design Studio I. 3 Credits.**

Introduces use of creative problem solving techniques in defining, analyzing, and solving problems in the built environment at the scale of the individual. Emphasizes basic graphic and verbal presentation techniques and relationships between form, the natural environment, people, and function.

P: Art 106.

Fall Only.

**DESIGN 437. Environmental Design Studio II. 3 Credits.**

Analysis and design of group spaces, such as houses, classrooms, waiting rooms and other spaces intended for occupancy by groups of people.

P: Design 436 or Ur Re St 436.

Spring.

**DESIGN 438. Environmental Design Studio III. 3 Credits.**

Projects at the urban scale: design teams analyze physical, social, economic, historical, and administrative aspects of specific problems. Students formulate urban design programs and produce policies, plans, and designs.

P: Design 437 or Ur Re St 437.

Fall Only.

**DESIGN 439. Environmental Design Studio IV. 3 Credits.**

Each student proposes, designs and executes a design/research project of an elected topic. Individual projects are acceptable in some instances; projects by design teams are encouraged.

P: Design 437 or Ur Re St 437.

Spring.

**DESIGN 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

**DESIGN 497. Internship. 1-12 Credits.**

Instruction and experience in a professional environment where students work in any aspect of the field appropriate to their academic preparation and career goals under professional and faculty supervision. No more than 3 credits may be used to meet requirements for a major or minor.

P: jr st and 3.0 gpa in major emphasis (dept will monitor gpa req).

Fall and Spring.

## Economics (ECON)

### Courses

**ECON 152. Economic Concepts. 3 Credits.**

Introduction to micro- and macro-economic concepts and principles. Understand application to contemporary economic problems and issues in areas of markets, business organizations, prices, money and banking, fiscal policy.

**ECON 202. Macro Economic Analysis. 3 Credits.**

Introduction to the behavior of our economy in the aggregate, focusing upon the process by which the economy achieves a certain level of output and employment.

Fall and Spring.

**ECON 203. Micro Economic Analysis. 3 Credits.**

The decision-making processes of individuals and business firms associated with the determination of what products will be produced, how they will be produced, and what prices specific goods and services will command.

Fall and Spring.

**ECON 206. Macro Economics Laboratory. 1 Credit.**

Laboratory course to accompany Econ 202.

P: conc enr in Econ 202.

**ECON 207. Micro Economics Laboratory. 1 Credit.**

Laboratory course to accompany Econ 203.

P: Econ 203 or conc enr.

Fall and Spring.

**ECON 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**ECON 302. Intermediate Macro Economic Theory. 3 Credits.**

Theories of national income distribution as a basis for an examination of policy proposals to deal with inflation, unemployment, economic fluctuations and economic growth at national and international levels.

P: Econ 202.

Fall and Spring.

**ECON 303. Intermediate Micro Economic Theory. 3 Credits.**

Theories used in explaining the behavior of consumers and producers in choices relating to the production, exchange and distribution of output.

P: Econ 203.

Fall and Spring.

**ECON 304. Contemporary Labor Markets. 3 Credits.**

The determination of wages and employment at the level of the firm, the industry, and the total economy.

P: Econ 202 and 203.

Spring.

**ECON 305. Natural Resources Economic Policy. 3 Credits.**

Acquaints the student with policies leading to arrangements for the development, management, and use of natural resources. Emphasizes the longer time horizon required for the conservation of resources and a general concern for the quality of ecosystems.

P: Econ 203.

Fall Only.

**ECON 307. History of Economic Thought. 3 Credits.**

Historical development of contemporary economic thought from the mercantilist period to the present emphasizing contributions of major schools of economic thought.

P: jr st.

Fall Only.

**ECON 308. Business Cycles. 3 Credits.**

Description and recent history of business cycles: leading explanations of levels of employment, output and prices; savings and investment, forecasting; governmental policy.

P: Econ 202 and 203.

Fall and Spring.

**ECON 309. Urban and Regional Economics. 3 Credits.**

Basic concepts in the economics of regions and urban areas, such as industrial location theory, central place theory, land rent theory, economic base theory, and input-output analysis; applications to problems of economic development, urbanization and place prosperity.

P: Econ 203 and jr st; REC: Econ 202.

Spring.

**ECON 310. Introduction to Quantitative Analysis and Econometrics. 3 Credits.**

An introduction to the use of mathematical concepts and techniques in the analysis of economic phenomena and the use of statistical methods to estimate equations describing economic events.

P: Econ 203; and Math 201 or 202; and Bus Adm 216 or Comm Sci 205 or Math 260.

Spring.

**ECON 330. Money and Banking. 3 Credits.**

Analysis of money as an economic institution and of the organizational structure of the commercial and central banking system in the U.S.; monetary theory and policy in the national and international setting.

P: Econ 202.

Fall and Spring.

**ECON 340. Economics of Land Use. 3 Credits.**

Economic relationships between humans and land. Principles governing land use and conservation and the institutional arrangements of this basic resource. Application of principles in policy-making in land valuation, taxation and zoning in the context of regional economic development.

Spring.

**ECON 342. Community Economic Development. 3 Credits.**

Various forces involved in community economic development, including the human and non human resource potentials, motivation, values and attitudes. Examines social and economic structures such as transportation, communication, and community services from the point of view of community development.

P: jr st; and Econ 202 or 203.

Spring Odd.

**ECON 352. Applied Economic Concepts. 3 Credits.**

Explores economic principles and consumer economics including money, banking, public finance, and research methods and techniques for economic analysis. For students who have completed macro and micro economic analysis.

P: Econ 202 and 203; or Econ 152.

**ECON 371. Gender and Economic Justice. 3 Credits.**

This course serves as an introduction to the field of contemporary feminist approaches to economics. Questions range from conceptualization of the economy, work, well-being, and the gendered implications of policy at both micro and macro levels. The course includes an examination of contemporary economic inequalities between men and women (also differentiated by race and class), with a focus on the United States.

P: DJS/Wost 241

Spring Even.

**ECON 402. Environmental and Resource Economics. 3 Credits.**

Applications of tools such as cost-benefit analysis and other economic concepts in current public decision making, with special emphasis upon common property resources management.

P: Econ 303 or 305.

Spring.

**ECON 403. International Economics. 3 Credits.**

Theory and concepts of international trade and finance; contemporary conditions and problems in international economic relations.

P: Econ 202 and 203 and jr st.

Spring.

**ECON 406. Economics of Globalization. 3 Credits.**

Contemporary functioning of different economic systems and institutions in an era of globalization, and their impact on the global economy.

P: Econ 202 and jr st.

Fall Even.

**ECON 409. Public Finance and Fiscal Policy. 3 Credits.**

Effects of government spending and taxation on resource allocation, incomes, prices and employment. Includes consideration of the uses and effects of fiscal policy.

P: Econ 203.

Fall Odd.

**ECON 412. Economics of Sustainability. 3 Credits.**

Exploration of the economic conditions for, requisites of, and policy to encourage social, ecological and economic sustainability.

P: Econ 202 or 203; REC: Econ 303 or 402.

Spring.

**ECON 453. Cost Benefit Analysis. 3 Credits.**

Application of tools and concepts in current economic decision making, with special emphasis upon Natural Resource management, environmental problems, market failure, and public policy approaches.

**ECON 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**ECON 483H. American Economic History. 3 Credits.**

American Economic History focuses on the major events in modern American economic history.

P: ECON 202 or ECON 203.

**ECON 485. Managerial Economics. 3 Credits.**

Applications of the basic theoretical tools of micro- and macro-economic analysis to the problems of business management, including such topics as demand, production, costs, pricing and forecasting as well as current economic issues such as environmental policies and regulations.

P: Econ 202 and 203 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Spring.

**ECON 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**ECON 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**ECON 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Education (EDUC)

### Courses

**EDUC 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**EDUC 203. Environmental Education in K-12 Schools. 2 Credits.**

Philosophies, teaching/learning processes, and resources for environmental education. Focus on hands-on/minds-on activities and multidisciplinary environmental education theory and practice; examination of ways to apply learning to future teaching roles in and out of the classroom.

P: Adm to teacher educ and Educ 361. REC: Env Sci 102, or 302, or 305.

Fall and Spring.

**EDUC 206. Cultural Images in Materials for Children and Adolescents. 3 Credits.**

The varied images of ethnic and racial groups and sex roles as developed in tradebooks, textbooks and other instructional materials for children and adolescents; detecting negative images and building positive images.

Fall and Spring.

**EDUC 250. Field Experience in Education. 2 Credits.**

Direct field experience working with children in educational settings; biweekly campus classes and 30 hours direct observation, participation and interviews. Must be completed no later than first semester after admission to teacher certification.

P: so st, gpa 2.75 or higher, accepted as tchr educ prog candidate, and caregiver background check req; contact Educ Dept for application.

**EDUC 280. Instructional Technologies: Evaluation, Production and Application. 1-3 Credits.**

This course examines computer and audio-visual materials designed, developed, and promoted for classroom use. Students will examine and use resources, explore professional literature and evaluate processes and products for future students. This course will meet the Wisconsin Department of Public Instruction P.I. 3 & 4 mandates.

P: adm to teacher educ or candidate status.

Fall and Spring.

**EDUC 290. Introduction to Educational Inquiry. 5 Credits.**

An intensive exploration of the complex process of inquiry and the major issues raised by the thoughtful observation in the field.

P: Departmental Approval required; caregiver background check and TB test required.

Fall and Spring.

**EDUC 295. Special Topics. 1-3 Credits.****EDUC 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**EDUC 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**EDUC 302. Teaching Social Studies in Elementary and Middle Schools. 3 Credits.**

Addresses social studies standards, assessments, curriculum content, and instructional strategies including concepts, classroom environment, scope and sequence and other forces influencing the social studies program.

P: adm to teacher educ and Educ 361.

Fall and Spring.

**EDUC 303. Teaching Art in the Elementary and Middle Schools. 3 Credits.**

Philosophy and psychology of art education, characteristics and stages of creative development in children and children's art, selecting and motivating artistic experiences, developing lesson plans and units, organization of elementary art curriculum.

P: adm to teacher educ and Educ 361.

Fall and Spring.

**EDUC 304. Teaching Music in the Elementary and Middle Schools. 3 Credits.**

Identification of children's musical needs; materials and methods to assist classroom teachers in meeting these needs; includes practical experience with basic elements of music for the classroom teacher's competency and self-confidence.

P: adm to teacher educ and Educ 361.

Fall and Spring.

**EDUC 306. Teaching Health, Physical Education in the Elementary, Middle Schools. 3 Credits.**

Principles and methods of planning and conduct of health and physical education instruction for elementary and middle school classroom teachers.

P: adm to teacher educ and Educ 361.

Fall and Spring.

**EDUC 307. Teaching Reading in the Elementary and Middle Schools. 3 Credits.**

Teaching methods in developmental reading: nature of the reading process, reading readiness, vocabulary, comprehension and study-skills development. Techniques for diagnosis and instruction of diverse learners.

P: adm to teacher educ.

Fall and Spring.

**EDUC 309. Teaching Language Arts in the Elementary and Middle Schools. 3 Credits.**

Develops a language arts model, rationale, basic processes and skills and assessment procedures for the language arts classroom.

P: adm to teacher educ.

Fall and Spring.

**EDUC 310. Teaching Communication Arts in the Middle and Secondary Schools. 3 Credits.**

Theoretical and practical considerations in teaching communication arts. Development of a communication arts model, rationale, basic processes and skills, and assessment procedures for the communications arts classroom.

P: adm to teacher educ and Educ 361.

Fall Only.

**EDUC 311. Teaching Foreign Languages. 3 Credits.**

Principles and methods of teaching foreign languages to students of all ages; evaluation of texts and other materials; simulation of planning for one semester's teaching.

P: adm to teacher educ and Educ 361.

Spring Even.

**EDUC 312. Teaching Social Studies in the Middle and Secondary Schools. 3 Credits.**

Addresses social studies standards, assessments, curriculum content, and instructional strategies including concepts, classroom environment, scope and sequence and other forces influencing the social studies program.

P: adm to teacher educ and Educ 361.

Spring.

**EDUC 313. Teaching Mathematics in Middle and Secondary Schools. 3 Credits.**

Principles, methods and materials for teaching mathematics and computer science; development of mathematical concepts and skills, selection and use of materials, motivation, lesson and unit planning and evaluation.

P: adm to teacher educ and Educ 361.

Fall Only.

**EDUC 314. Teaching Science in Middle and Secondary Schools. 3 Credits.**

The nature of middle and high school science curricula, recent innovations in science teaching, classroom teaching techniques, and evaluation.

P: adm to teacher educ and Educ 361.

Fall Only.

**EDUC 315. Teaching English as a Second Language. 3 Credits.**

Basic methods of teaching English to non-native speakers and the underlying theories from linguistics, psychology, education and sociolinguistics; development and evaluation of lessons for the ESL classroom.

P: none; REC: one 300 level linguistics cse.

Fall Only.

**EDUC 316. Teaching Art in the Middle and Secondary Schools. 3 Credits.**

Methodology, procedures and strategies for teaching art; motivation techniques, preparation of art lessons and lesson plans, evaluation of art learning experiences; creativity, visual awareness and perception techniques; curriculum development in art.

P: adm to teacher educ; REC: Educ 250 and 361.

Spring Even.

**EDUC 317. Teaching Music in the Middle and Secondary Schools. 3 Credits.**

Philosophical and curricular issues in secondary school music; review of secondary school materials and methodologies; developing rehearsal objectives for a performance-oriented music curriculum.

P: adm to teacher educ; REC: Educ 361.

Fall Odd.

**EDUC 319. Adolescent Literature in Middle and Secondary School Reading. 3 Credits.**

Design and content of effective adolescent literature programs; analysis and evaluation of adolescent literature; current practices in literacy curricula; adolescent literature and personal development; literature and social issues.

P: jr st.

Spring Odd.

**EDUC 324. Teaching Mathematics in the Elementary and Middle Schools. 3 Credits.**

Educational research and practices related to methods, materials, evaluation techniques; mathematics curriculum development, implementation and evaluation, teaching mathematical concepts, facts, skills, problem-solving, use of calculators and computers; error patterns and remediation.

P: adm to teacher educ and Educ 361; Math 281 and 282.

Fall and Spring.

**EDUC 325. Teaching Science in the Elementary and Middle Schools. 3 Credits.**

Teaching methods, materials, evaluation techniques, curriculum development, implementation and evaluation in elementary and middle school science concepts, processes and problem-solving; the nature of science, interactions of science, technology and society; applications of computers in science education.

P: adm to teacher educ and Educ 361.

Fall and Spring.

**EDUC 326. Music, Movement and Core Arts Pedagogy. 3 Credits.**

Principles and methods of integrating music, movement and arts instruction with other core subjects in the Elementary and Middle Schools; includes practical experience with basic elements for the classroom teacher's competency and self-confidence.

P: Admission to teacher education and EDUC 361

Fall and Spring.

**EDUC 333. Curriculum & Assessment in Early Childhood. 3 Credits.**

Overview of all early childhood (3-4 yrs) developmental and instructional assessment methods, curriculum and instructional planning based on assessments, and preparation of a Documentation Portfolio for a 3 or 4 year old child.

P: Admission to Education or candidacy status required; TB test and criminal background check

Fall and Spring.

**EDUC 334. Teaching General Music in the Elementary and Middle Schools. 3 Credits.**

Philosophical and theoretical foundations of music education. Children's musical needs; curriculum development; traditional and contemporary methods and materials.

P: adm to teacher educ and Educ 361 and Music 252.

Fall Only.

**EDUC 336. Introduction to Experiences in Kindergarten. 1 Credit.**

Students will spend 4-hours per week for 12 weeks in a kindergarten classroom implementing curriculum and assessment assignments/projects from Educ 443.

P: Adm to teacher education or candidacy status required; TB test and criminal background check

Fall and Spring.

**EDUC 340. Supporting Learning and Behavior in the Classroom. 3 Credits.**

Course provides pre-service teachers with an understanding of how students learn in educational contexts. Learning theories reviewed, & learning strategies to enhance learning and prevent/manage behaviors are introduced and applied in direct interaction with a learner. 24 hr field component req.

P: adm to teacher educ or candidate and conc enrl Educ 290.

**EDUC 342. Teaching Methods for Diverse Learners. 2 Credits.**

A study of instructional methods and materials for teaching diverse learners.

P: adm to teacher educ and Educ 361.

Fall Odd.

**EDUC 343. Educational Assessment. 2 Credits.**

This course will focus on the study of the principles, procedures, interpretation, and administration of formal and informal student assessment.

P: adm to teacher educ and Educ 361.

Fall Odd.

**EDUC 347. Classroom and Behavior Management Strategies. 2 Credits.**

This course will address various theories and models for organizing and maintaining an effective classroom as well as strategies for working with individuals and groups.

P: adm to teacher educ and Educ 361.

**EDUC 351. Field Project in School Settings. 1 Credit.**

Thirty clock hours of direct experience with school children/youth in educational settings, focusing on specific educational projects identified by education faculty, school faculty, and other educators. Fulfills part of the 100-hour pre-student-teaching clinical experience requirement.

Fall and Spring.

**EDUC 352. Social and Family Influences on Early Development and Learning. 3 Credits.**

This course is designed for future and currently practicing teachers and other professional members of community organizations. The goal is to develop a better understanding of the many social influences in young children's development that lead to success or failure in the early school years (pre K-primary grades). Factors in the lives of young children which lead to positive or negative outcomes in childhood and beyond will be identified; their influence will be explained within such frameworks and approaches as Erikson's theory of psychosocial development and family systems theory. Strategies for helping young children and their families as well as knowledge of community resources will be stressed.

P: Admission to Education or candidacy status required

Fall and Spring.

**EDUC 361. Introduction to the Art and Science of Teaching. 3 Credits.**

This course provides pre-service teachers with a foundation for understanding the teaching profession and the nature of learners. Students are required to do extensive field experience. The course combines both theory and practice in the art and science of teaching.

P: Adm to teacher educ..

Fall and Spring.

**EDUC 401. Student Teaching in the Pre-Kindergarten Setting. 2 Credits.**

Supervised student teaching or internships in the pre-kindergarten setting. Offered on a pass/no credit basis only. Additional special course fee required for students exercised options for extra administrative and travel costs.

P: Adm to Education; conc enr in Educ 333; TB test & background check.

Spring.

**EDUC 402. Student Teaching in the Kindergarten Setting. 6 Credits.**

Supervised student teaching or internships in the kindergarten setting. Offered on a pass/no credit basis only. Additional special course fee required for students exercised options for extra administrative and travel costs.

P: Adm to teacher educ.

Fall and Spring.

**EDUC 403. Student Teaching in the Primary School. 6-12 Credits.**

Supervised student teaching or internships in the primary school. Offered on a pass/no credit basis only. Additional special course fee required for students exercised options for extra administrative and travel costs.

P: Adm to teacher educ.

Fall and Spring.

**EDUC 404. Student Teaching in the Middle School. 6-12 Credits.**

Supervised student teaching or internships in the middle school. Offered on a pass/no credit basis only. Additional special course fee required for students exercised options for extra administrative and travel costs.

P: Adm to teacher educ.

Fall and Spring.

**EDUC 405. Student Teaching. 6-12 Credits.**

Supervised student teaching or internships in the secondary school. Offered on a pass/no credit basis only. Additional special course fee required for students exercising options for extra administrative and travel costs.

P: Adm to teacher educ.

Fall and Spring.

**EDUC 406. Evaluation and Testing in Education. 2-3 Credits.**

Techniques for constructing tests and measurement systems; statistical procedures applied to classroom data; monitoring and assessing individual and group learning situations; using and interpreting data from standardized tests.

P: jr st.

Spring Odd.

**EDUC 414. Seminar in Student Teaching/Internship. 2 Credits.**

This two-credit seminar is intended to provide student teachers and interns with the opportunity to complete Department of Public Instruction certification requirements as well as to provide student teachers and interns with the experience of interacting with and learning from each other. Class meetings will be four all day sessions, either on Saturdays or during the week preceding the start of the University semester and the student teaching/interning experience in the classroom.

P: conc enr in Educ 401, 402, 403, 404 or 405.

Fall and Spring.

**EDUC 415. Counseling Role of the Classroom Teacher. 3 Credits.**

Specific counseling and guidance skills necessary for guidance effectiveness of the classroom teacher and their implementation in the classroom.

P: adm to teacher educ.

**EDUC 416. Principles of Coaching. 2 Credits.**

The materials, drills, offenses, and defenses of specific sports gained through the literature of the field, personal interviews and observations, staff lectures and/or conferences.



**EDUC 417. Philosophy of Athletics and Coaching. 2 Credits.**

This course is designed to enable students to develop their philosophies of coaching. A thorough examination of the role of athletics in education and/or society is integral. An attempt is made to assure that the prospective coach has objectives that are consistent with our educational systems.  
Spring.

**EDUC 418. Organization and Administration of Athletics. 2 Credits.**

Various phases of organizing and administering and interscholastic athletic program with application to athletics in nonacademic environments as well (e.g. boys' clubs, tennis clubs).  
Spring.

**EDUC 419. Field Experience in Coaching. 2 Credits.**

Culminates study and preparation for practical coaching experience. Participation in practice, competitive and other coaching experiences under the supervision of an experienced cooperation coach. Student coach maintains daily log and consults with and is observed by CCP adviser.

**EDUC 420. Workshop in Economics Education. 1-3 Credits.**

Workshop is designed to provide information on selected current economic topics and concepts; enables educators to examine new instructional materials and curriculum guides; and develop learning activities appropriate to their instructional responsibilities. Different topics are selected each year. Required for secondary social studies licensure. Topic will be identified by subtitle with each offering. May be repeated for credit.

**EDUC 421. Literacy and Language Development in Young Children. 3 Credits.**

Acquisition of reading skills and development of language in preschool through primary grades; analysis of instructional and diagnostic strategies for listening and reading comprehension, vocabulary development, word identification strategies and approaches to beginning reading.

P: Educ 361 or Hum Dev 331.

Fall and Spring.

**EDUC 422. Reading in the Content Areas. 3 Credits.**

Practical guidelines for classroom teachers in subject areas: English, social studies, mathematics, science, etc. Suggestions for teaching reading and study skills related to content, specialized and technical vocabulary, dealing effectively with reading problems in the content areas as it relates to the Common Core State Standards (CCSS).

P: adm to teacher educ

Fall and Spring.

**EDUC 441. Infants & Toddlers: History, Philosophy & Current Programs. 3 Credits.**

Students implement guided observations and learning experiences with infants and toddlers while learning about the historical and current approaches, models and issues.

P: Education Candidacy Status or admission to Education

Spring.

**EDUC 443. Teaching Kindergarten: Curriculum and Assessment. 3 Credits.**

Development of variety of teaching strategies, assessment strategies and resources for appropriate, standards-based learning in full day kindergarten programs.

P: Admission to teacher Education or candidacy status required; TB test and criminal background check req

Fall and Spring.

**EDUC 445. Working and Communicating With Families of Young Children. 3 Credits.**

Students will learn to work with families from diverse backgrounds in non-intrusive partnership, to communicate successfully using basic Hmong, Spanish and sign, and develop knowledge of resources and referral networks for families.

P: early chldhd tchnng minor.

**EDUC 452. Principles of Middle Level Education. 3 Credits.**

Provides students with an overview of middle level students, teachers, schools, and curriculum. Suggests instructional strategies to meet student needs. Addresses issues related to middle level education.

P: adm to teacher educ.

Fall and Spring.

**EDUC 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**EDUC 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**EDUC 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**EDUC 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Engineering (ENGR)

### Courses

**ENGR 213. Mechanics I. 3 Credits.**

Elementary vector operations, resultant of two- and three-dimensional force systems, centroid, hydrostatic forces, equilibrium of trusses and frames, laws of friction and impending motion, moments of inertia, virtual work, stability.

P: MATH 202

Fall Only.

**ENGR 214. Mechanics II. 3 Credits.**

Displacement, velocity and acceleration components, kinematics of particles using rectilinear and curvilinear coordinates, relative motion, solution and plane motion of rigid bodies, work and potential energy of particles and rigid bodies, linear and angular impulse and momentum, central force motion.

P: ENGR 213

Spring.

**ENGR 240. Micro-controllers and Programmable Logic Controllers. 3 Credits.**

This course introduces embedded computer systems and mid-range micro-controller peripherals, including electric motor control components, using assembly and C programming. PLC topics such as troubleshooting, timers, counters, sequencers, data move, math, and analog input and output are covered.

P: ET 142 and ET 211

Spring.

**ENGR 301. Engineering Materials. 4 Credits.**

This course covers the basic behavior and processing of engineering materials, including metals, ceramics, plastics, and alloys. Phase behavior of alloys, response to applied loads, crystalline and noncrystalline behavior are included.

Spring.

**ENGR 342. Supervisory Control and Data Acquisition. 3 Credits.**

This course uses knowledge acquired from previous courses as it applies to techniques for precision measurements, interpreting measurement data and using it in control systems. Hands on laboratory experiments are provided to demonstrate and verify the concepts in precision measurement theory.

P: ET 240

Fall Only.

**ENGR 424. Atmospheric Pollution and Abatement. 3 Credits.**

This course will provide students an understanding of atmospheric processes and weather patterns and how they affect pollutant transport. Sources, sinks, environmental effects, and abatement technologies for air pollutants will be addressed. Atmospheric reactions that create pollution or deplete stratospheric ozone will be included.

P: CHEM 212 and CHEM 214 and ET 201

Fall Odd.

**ENGR 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

## Engineering Technology (ET)

## Courses

### **ET 101. Fundamentals of Engineering Technology. 2 Credits.**

This course equips students with the tools to be a successful student and practicing engineering technologist. Topics covered include ethics, project management, team work, working with data, creating presentations, engineering design, and an understanding of the engineering technology profession.  
Fall Only.

### **ET 103. Surveying. 3 Credits.**

This course covers fundamental concepts and theory of engineering measurements; adjustment and use of instruments; computations; measurement of distance, difference in elevation, angles, and directions; and route and construction surveys. Applications of probability and statistical analysis of surveying are included.

P: MATH 104 or higher

Fall Only.

### **ET 105. Fundamentals of Drawing. 3 Credits.**

This course equips students with the computer aided design software tools to generate 2D and 3D graphics that meet industry standards.

P: Math 104 or higher

Fall Only.

### **ET 106. Parametric Modeling I. 2 Credits.**

This course introduces students to parametric based modeling and design of 3D objects via Solidworks software packages. Topics include creating and editing solid parts, assemblies and working drawings, and applying top down and bottom up assembly techniques in the context of product design.

P: ET 105

Spring.

### **ET 116. Basic Manufacturing Processes. 3 Credits.**

This course introduces machining, stamping, casting, forming, and joining of materials. It covers basic machine processes use to form materials to desired specifications and includes manufacturing of materials, heat treatment, foundry work, and shaping processes.

P: ET 101

Fall Only.

### **ET 118. Fluids I. 2 Credits.**

This course covers basic fluid properties and hydraulic power, including pneumatics, Pascal's law, control systems, hydraulic pumps, effects of fluid friction, hydraulic energy, and design of hydraulic circuits.

P: PHYSICS 103 or PHYSICS 201

Fall Only.

### **ET 130. Basic Electrical Circuits I. 3 Credits.**

This course uses theory, laboratory investigation, and circuit simulation to introduce basic electrical and circuit analysis principals with emphasis on DC current. Concepts of electric and magnetic fields in the context of capacitors and inductors and transient responses responses in DC circuits is included.

P: MATH 104 or higher

Fall Only.

### **ET 131. Basic Electrical Circuits II. 3 Credits.**

This course uses theory, laboratory investigation, and circuit simulation to introduce basic electrical and circuit analysis principals with emphasis on AC current. Transformers, 3 phase power, frequency response and analysis, and selected DC current topics will be included.

P: ET 130

Spring.

### **ET 142. Introduction to Programming. 3 Credits.**

This is an introductory course in computer programming using the C++ language. Topics covered include problem solving, algorithms, selected statements, repetition, arrays, functions, and sub-programs. Applications to electrical engineering technology are emphasized.

ET 101 and MATH 104 or higher

Fall Only.

### **ET 150. Codes, Safety, and Standards. 2 Credits.**

This course provides a survey of codes applied to the electrical construction industry, including the National Electric Code, with discussion of safety organizations and their guidelines, including OSHA, IEEE, ISA, ANSI, and UL. Safety procedures and up-to-date electrical codes are emphasized.

P: ET 130

Spring.

### **ET 201. Introduction to Air Quality. 2 Credits.**

This course is designed to educate students in the principal and practice of air quality management, specifically the dynamic nature of air quality as it relates to ambient and industrial conditions. Air treatment technologies, contaminant movement in air matrices, and data analysis will be included.

Spring.

**ET 202. Introduction to Solid and Hazardous Waste. 2 Credits.**

This course covers generation, processing, and disposal of municipal, industrial, and agricultural waste materials with emphasis on the technical and economic feasibility of various processes.

P: CHEM 211

Fall Only.

**ET 203. Introduction to Water and Waste Water. 3 Credits.**

This course provides an overview of water resources, drinking water standards, water quality characteristics, water pollutants, and storm water management. Sampling and laboratory instrument procedures are included with statistical analysis of data to complete lab reports.

P: CHEM 211 and CHEM 213

Spring.

**ET 206. Chemistry for Engineers. 5 Credits.**

This course will provide engineering students with a background in important concepts and principles of chemistry. Emphasis will be on areas not relevant for an engineering context with practical applications. In addition to the fundamental concepts of atomic structure, solutions, stoichiometry, kinetics, and enthalpy of reactions, the connections between chemistry, physics, and materials science will be investigated.

P: Math 104 or concurrent enrollment or equivalent

Fall Only.

**ET 207. Parametric Modeling II. 2 Credits.**

This course provides the skills and knowledge to create and manipulate orthographic drawings for part models, cast, molded, and sheet metal parts with weldments. Surface modeling will be emphasized and students will be introduced to software tools with kinematics and finite element stress analysis capabilities.

P: ET 106

Spring.

**ET 211. Digital Electronics. 3 Credits.**

This course introduces digital electronics, the operation of logic gates, and the theory of combination logic circuits. Programmable logic devices, Karnaugh mapping, encoders, decoders, multiplexers, binary adders, parity circuits, multi-vibrators, and glitch-free clocks are introduced.

P: ET 130

Spring.

**ET 220. Mechanics of Materials. 3 Credits.**

This course covers the distribution of forces in materials, trusses, and other rigid structures. Topics include stress and strain, torsion, shear and bending moments, thermal expansion and stress, Mohr's circle, and column theory.

P: ET 214

Spring.

**ET 221. Machine Components. 3 Credits.**

This course introduces concepts and techniques used in the design of a machine. The components studied include gears, shafts, cams, bearings, belts, and other hardware. Using reference handbooks and catalog specifications in choosing appropriate components for various applications is stressed.

P: ET 101 and MATH 104 or concurrent enrollment

Fall Only.

**ET 232. Semiconductor Devices. 3 Credits.**

This course introduces semiconductor materials and manipulation to create several types of diodes, transistors, and optoelectronic devices. The theory and operation of these devices is explored. Laboratory experiments will be performed to measure device characteristics and verify circuit performance.

P: ET 131 and MATH 202

Fall Only.

**ET 233. Linear Circuits. 3 Credits.**

This course focuses on the operation, analysis, and application of linear active circuits utilizing transistors, operational amplifiers, comparators, mixers, and other components as well as integrated circuit functions such as converters and phase locked loops.

P: ET 232

Spring.

**ET 240. Micro-controllers and Programmable Logic Controllers. 3 Credits.**

This course introduces embedded computer systems and mid-range micro-controller peripherals, including electric motor control components, using assembly and C programming. PLC topics such as troubleshooting, timers, counters, sequencers, data move, math, and analog input and output are covered.

P: ET 142 and ET 211

Spring.

**ET 250. Signals and Systems. 3 Credits.**

This course provides an introduction to analysis techniques for continuous time and discrete time signals and typical model systems. Topics include systems definitions and properties. Signal representations and applications to circuit analysis will be made using software packages such as MATLAB.

P: MATH 203 and ET 211 or concurrent enrollment in ET 211

Fall Only.

**ET 305. Environmental Systems. 4 Credits.**

Physical and chemical aspects of natural environmental processes. The movement, transformation, and fate of materials and contaminants.

P: Chem 212 with at least a C grade and Geosci 202 with at least a C grade and Math 104 with at least a C grade and Biology 201/202 with at least a C grade.

Fall and Spring.

**ET 308. Finite Element Analysis. 3 Credits.**

This course introduces the finite element analysis (FEA) method and applications to stress analysis and structural mechanics. Topics include FEA in 1, 2, and 3 D systems, optimization using FEA, incorporation of failure criteria and other constraints, and interpretation of FEA results.

P: none; REC: ET 207, ET 220, and Math 203

Fall Only.

**ET 318. Fluids II. 2 Credits.**

This course covers the theory of fluids including hydrostatics, hydrostatic forces, buoyancy and stability, Bernoulli's equation, pipe flow, open channel flow, drag and lift.

P: None; REC: ET 118 and Math 203

Fall Only.

**ET 320. The Soil Environment. 4 Credits.**

The physical, chemical and biological properties and principals of soils; formation, classification and distribution of major soil orders; function and management of soils in natural, agricultural and urban environments. Includes field and laboratory experiences.

P: Chem 108 with at least a C grade or 212 with at least a C grade; REC: Geosci 202.

Fall Only.

**ET 322. Design Problems. 3 Credits.**

In this course students apply design principles and methods to create a product or a machine. Students work with a team to prepare concept sketches, assembly drawings, detail drawings, and perform cost analysis.

P: ET 106, ET 116, ET 220, and ET 221

Spring.

**ET 323. Pollution Prevention. 3 Credits.**

Emphasizes principles of pollution prevention and environmentally conscious products, processes and manufacturing systems. Also addresses post-use product disposal, life cycle analysis, and pollution prevention economics.

P: Env Sci 318 with at least a C grade.

Spring Odd.

**ET 324. Motors and Drives. 3 Credits.**

This course analyzes selection, set-up, and circuitry associated with AC and DC drives and motors. Topics include DC motor characteristics. AC induction, specialty machine performance and characteristics, stepper motors, servomotors, and three phase power systems are also included.

P: ET 130 and either PHYSICS 103, PHYSICS 201, or equivalent

Spring.

**ET 330. Hydrology. 3 Credits.**

Qualitative study of the principal elements of the water cycle, including precipitation, runoff, infiltration, evapotranspiration and ground water; applications to water resource projects such as low flow augmentation, flow reregulation, irrigation, public and industrial water supply and flood control.

P: Geosci 202 with at least a C grade.

Fall Only.

**ET 331. Water and Waste Water Treatment. 3 Credits.**

Water and waste water treatment systems, including both sewage and potable water treatment plants and their associated collection and distribution systems. Study of the unit operations, physical, chemical and biological, used in both systems.

P: Geosci 202 with at least a C grade or Chem 211 with at least a C grade or Biology 201/202 with at least a C grade.

Spring.

**ET 334. Solid Waste Management. 3 Credits.**

This course will focus on technical concepts of solid waste management related to the design and operation of landfills, waste-to-energy systems, composting facilities, recycling facilities, and other emerging waste management technologies.

P: ET 202.

**ET 336. Environmental Statistics. 4 Credits.**

This course emphasizes the principles of data analysis using the SAS (Statistical Analysis System) software package. It employs primarily environmental examples to illustrate procedures for elementary statistical analysis, regression analysis, analysis of variance and nonparametric analysis.

P: Math 260

Fall Only.

**ET 340. Advanced Programmable Logic Controllers. 3 Credits.**

This course covers interfacing programmable logic controllers to communicate with each other in a complete system. Actuators used in typical industrial related processes are explored. Operation and application of electronic instrumentation and control systems are also covered.

P: ET 240

Fall Only.

**ET 342. Supervisory Control and Data Acquisition. 3 Credits.**

This course uses knowledge acquired from previous courses including embedded controllers and electrical circuit design as it applies to techniques for precision measurements, interpreting measurement data, and using it to control systems. Hands on laboratory experiments are provided to demonstrate and verify the concepts in precision measurement theory as it relates to process measurements and the accuracy of electrical measurements in industry.

P: ET 240

Spring.

**ET 344. Human Machine Interface. 3 Credits.**

This course covers human machine interfaces applied to control systems, programmable logic controller programs, including troubleshooting and validation of interface terminal applications, and differentiation between human machine interface software and operator interface terminal functionality.

P: ET 340

Spring.

**ET 346. Electrical Power Systems. 3 Credits.**

This course covers characteristics of three phase power configurations and utility systems interconnection from generation through distribution, including powerhouse, renewable, nuclear, transmission, utility grid, device coordination, metering, protective relays, fuses, breakers, and fault circuit interrupting.

P: ET 240

Spring.

**ET 348. Electromagnetic Fields and Applications. 3 Credits.**

This course includes electromagnetic vector quantities and vector operations in different coordinate systems. Static and dynamic systems are explored in the context of applications such as circuits, dielectric and permeable materials, transmission lines, antennas and waveguides.

P: ET 233 and either PHYSICS 104 or PHYSICS 202 or equivalent

Spring.

**ET 350. Data Communication and Protocols. 3 Credits.**

Concepts needed to understand data, communications, and networking are presented in this course. The principles associated with data communication, transmission media, interfaces, error control, flow control, synchronization, circuit switching, and packet switching are investigated.

P: ET 250

Spring.

**ET 360. Project Management. 3 Credits.**

This course presents an overview of project management with an emphasis on engineering projects. Topics include pre-construction planning, project scheduling systems, critical path management, risk and effects analysis, and failure models.

P: Junior standing

Fall Only.

**ET 377. Industrial Safety and Hygiene. 3 Credits.**

This course analyzes hazards that can affect safety/health, including assessment of safety/health risks, associated with equipment, materials, processes, and activities. Also covered will be occupational health and safety management principles to initiate and/or improve safety management systems.

P: ET 101, ET 201, ET 202, ET 203, and CHEM 212; REC: BIOLOGY 201/202.

**ET 390. Mechatronics. 4 Credits.**

This course is the study of mechanical, electrical, and electronic systems. Students from both the electrical and mechanical engineering technology programs will form multidisciplinary teams and will design and build a project using an electromechanical control system.

P: ET 233 and ET 240 OR ET 320 and ET 322

Fall Only.

**ET 391. GIS. 3 Credits.**

This course provides an introduction to Geographic Information Systems and the utilization of spatial data for solving geographic problems. Both theoretical concepts of GIS technology and practical applications of GIS will be studied.

P: ET 101 and ET 105

Fall Only.

**ET 400. Co-op/Internship in Engineering Technology. 3 Credits.**

Co-ops/internships are offered on an individual basis and consist of a program of learning activities planned in consultation with a faculty member and an industry sponsor. A student may also conduct research with sponsorship of an individual faculty member.

P: junior or senior standing

Fall and Spring.

**ET 410. Capstone Project. 3 Credits.**

In this class students form teams and define a technological problem with specifications. After developing project proposals, teams work toward solutions while applying principles of technical design from the curriculum. Each team will deliver a formal presentation and provide a written report upon completion.

P: ET 360 and senior standing  
Spring.

**ET 415. Solar and Alternate Energy Systems. 3 Credits.**

Study of alternate energy systems which may be the important energy sources in the future, such as solar, wind, biomass, fusion, ocean thermal, fuel cells and magneto hydrodynamics.

P: Physics 104 with at least a C grade or 202 with at least a C grade.  
Spring Even.

**ET 420. Lean Processes. 3 Credits.**

This course focuses on the time value of money as well as operating a business using lean manufacturing with the Six Sigma and other operational models. Topics covered include decisions under risk, best alternative using economic models, present worth analysis, rate of return, and cost benefit analysis.

P: ET 101, ET 360 or concurrent enrollment.

**ET 424. Hazardous and Toxic Materials. 3 Credits.**

The handling, processing, and disposal of materials which have physical, chemical, and biological properties that present hazards to human, animal, and plant life; procedures for worker safety and for compliance with regulations. The metals and nonmetals, carcinogens, radioactive materials, and pathogenic human, animal, and plant wastes.

P: CHEM 212  
Spring Even.

**ET 432. Hydrogeology. 3 Credits.**

Introduction to the geological and physical principles governing ground water flow. Description of aquifer properties, chemical processes, equation of flow, well hydraulics, and environmental concerns.

P: Geosci 202 with at least a C grade; REC: Env Sci 330 with at least a C grade; Math 202.  
Spring.

**ET 433. Ground Water: Resources and Regulations. 3 Credits.**

An overview of the geology, properties, flow, and pollution of ground water systems. Techniques of aquifer characterization and water quality monitoring are introduced and evaluated. Regulatory and policy approaches to moderate use and ensure adequate high quality supplies of this valuable resource in the future are also reviewed.

P: GEOSCI 202  
Fall Even.

## English as a Second Language (ESL)

### Courses

**ESL 80. Grammar I. 3 Credits.**

This course will further students' understanding of English syntax, morphology and structure. Students will focus on productive mastery of verb agreement and tense as well as the syntactic framework of English. Students will learn about dependent and independent clauses and appropriate use of conjunctions to increase confidence using a variety of sentence structures in both oral and written production.

**ESL 81. Reading and Vocabulary I. 3 Credits.**

This course is designed for students who struggle to read in English, and are not yet confident in their ability to extract important information from a text. In this course we will focus on using contextual clues to create meaning from unfamiliar vocabulary and confusing semantic structures. Students will learn to extract main ideas, gain comfort with a variety of texts including fiction, non-fiction, academic textbooks, news articles, internet search results, etc.

**ESL 82. Writing Workshop I. 6 Credits.**

This course will focus on moving students from basic, short paragraphs to 5 paragraph essays with topic sentences and supporting details that reinforce well-formed thesis statements. Students will learn about focus, organization and cohesion in their writing, with an emphasis on creating strong arguments that are clearly conveyed with American stylistic conventions.

**ESL 83. Listening and Speaking for Everyday Life. 3 Credits.**

This course is designed for non-native speakers of English who are seeking to improve their skills for social interactions. A combination of structured and semi-structured production opportunities will help learners to feel confident in everyday interactions. Students will participate in conversations, debates and presentations about current events, cultures around the globe, and many other topics of interest! Opportunities for listening for understanding will be met with a variety of contexts including guest speakers, movies and news clips.

**ESL 85. Understanding American Culture. 3 Credits.**

Living in a country and among a people who are not your own can prove to be a bit overwhelming and challenging at times. This integrated skills course will focus on cultural adjustment and gaining a better understanding American culture through field experiences, media exposure, readings, and class discussion. Students will grow in their understanding of role of gender and race in America, family life, holidays, leisure activities and a little bit of history, too. Students will emerge from this course with an increased ability to work cross-culturally with partners and in groups as they pursue further study.

**ESL 90. Grammar II. 3 Credits.**

This course will continue student understanding of advanced grammatical structures. Students will discuss tense and agreement, modals, active/passive tense, subordinate clauses, parallel structure and more. Students will become more effective writers and more confident communicators through this coursework.

**ESL 91. Reading & Vocabulary II. 3 Credits.**

This course will focus on being able to identify main ideas and details that will enable students to summarize academic texts. Students will build reading fluency and develop techniques to assist them with the reading load of university. These skills include skimming, scanning, asking questions of the text, as well as identifying and defining critical vocabulary.

**ESL 92. Writing Workshop II. 6 Credits.**

This course will introduce students to the concept of writing as recursive process. Students will understand how to develop a thesis, and how to use that thesis to communicate clearly and effectively using strong supporting details throughout their essays. Students will focus on creating effective transitions that smooth communication and highlight important details. Students exiting this course will understand the importance of proper grammar and spelling for effective communication. The course will culminate in a research paper in which students learn research techniques and gain an understanding of proper citations.

**ESL 93. Listening & Note-taking II. 3 Credits.**

In this course, students will be exposed to university style lectures and develop strategies for effective note-taking within that setting. In addition, this course will focus on student response time for academic conversations. Students will focus on the ability to hear, comprehend, process and respond in a timely manner when working in academic settings with professors and other students. Enhancing these skills will be crucial to your academic success!

**ESL 94. Advanced Oral Communication. 3 Credits.**

This course is designed for students who are preparing to engage in university level academic coursework. Emphasis will be placed on enhancing students' communicative skills in both formal and informal academic settings. We will focus on oral fluency in developing appropriate syntactic and semantic structures as well as accent reduction. Students will learn the importance of stress, rhythm and intonation in the American English accent. Students enrolling in this course should be prepared to take new risks and stretch the limits of what they can do with their English!

## English Composition (ENG COMP)

### Courses

**ENG COMP 93. Fundamentals of Writing. 3 Credits.**

The focus of this course is intended to aid students in generating written discourse which can eventually be shaped or revised into expository prose. The course is a skills course; its intent is to provide students with the fundamental skills needed for the production of expository prose. The focus of the course is on sentence production, correction, and style; paragraph production and organization; spelling skills; reading skills and the production or practice of limited research skills, i.e., paraphrase, summary, and documentation. Grammatical concerns are also stressed, i.e., verb tense, pronoun reference, subject-verb agreement, and punctuation. Offered on a pass/no credit, non-degree credit basis only.

Fall and Spring.

**ENG COMP 100. College Writing. 3 Credits.**

An introductory course in college writing, emphasizing writing as a process. Focuses on generating and organizing ideas, conducting library research, developing paragraphs, improving sentence structure; reviews conventions of punctuation, grammar, spelling, and usage as needed.

P: Eng Comp 093 or ACT English score of 17 or higher or SAT Verbal score of 450 or higher.

Fall and Spring.

**ENG COMP 105. Expository Writing. 3 Credits.**

College-level writing skills and principles of logical reasoning, effective organization and development of ideas. Emphasis on research skills and on academic reading and writing.

P: Eng Comp 100 or 164 or ACT English score of 25 or higher or SAT Verbal score of 590 or higher.

Fall and Spring.

**ENG COMP 164. English as a Second Language: Composition. 3 Credits.**

An introductory course in academic writing for English language learners. Focuses on topic development, library research, paragraph and essay organization, the writing process, and language style.

P: International student status or permission of instructor.

Spring.

**ENG COMP 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.



**ENG COMP 305. Composition Practicum: Tutoring. 1 Credit.**

Effective tutoring in composition requires both a working knowledge of composition theory and guided practice analyzing student essays. This course will invite students to explore those theories and to reflect on their application prior to working as tutors in the Writing Center.

P: prior written cons of inst.

Spring.

**ENG COMP 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**ENG COMP 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**ENG COMP 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## English (ENGLISH)

### Courses

**ENGLISH 101. Introduction to Film. 3 Credits.**

Examines film as literature, as a visual and aural art, as technology, and as a medium which both reflects and influences social trends, values, and attitudes. Involves viewing a range of films and examining their place in film history.

Fall Only.

**ENGLISH 104. Introduction to Literature. 3 Credits.**

The distinctive characteristics of poetry, plays, short stories and the novel, intended to help students understand, appreciate and enjoy literature ranging from the classic to the contemporary.

Fall and Spring.

**ENGLISH 206. Women in Literature. 3 Credits.**

Surveys both women as writers and women as characters in literature; emphasizes the wisdom, experiences and insights of women writers and women in literature; concerned with literature from two or more cultures and comparison of the social and human values reflected in the literature of those cultures.

Fall Only.

**ENGLISH 212. Introduction to Creative Writing. 3 Credits.**

A first course focused on the analysis, understanding, appreciation, and techniques of writing poetry and fiction, as well as other genres at the discretion of the instructor.

Fall and Spring.

**ENGLISH 214. Introduction to English Literature I. 3 Credits.**

Chronological survey of English literature from Anglo-Saxon times to the end of the 18th century, including such writers as Chaucer, Shakespeare, Donne, Milton, Pope, and Swift.

Fall Only.

**ENGLISH 215. Introduction to English Literature II. 3 Credits.**

Chronological survey of English literature from the 19th century to the present, including such writers as Wordsworth, Shelley, Keats, Byron, Tennyson, Shaw, Conrad, Eliot and Thomas.

Spring.

**ENGLISH 216. Introduction to American Literature I. 3 Credits.**

Chronological survey of American literature from early exploration narratives to Melville, including such writers as Mather, Bradstreet, Paine, Irving, Cooper, Poe, Emerson and Thoreau.

Fall Only.

**ENGLISH 217. Introduction to American Literature II. 3 Credits.**

From Whitman to the present, including such writers as Dickinson, Twain, James, Crane, Eliot, Porter, Fitzgerald, Hemingway, Faulkner, Cummings, Updike, Walker and Carver.

Spring.

**ENGLISH 218. World Literatures I. 3 Credits.**

Chronological survey of world literatures from antiquity to roughly 1600. Texts studied will include Nonwestern as well as Western texts.

Fall Only.

**ENGLISH 219. World Literatures II. 3 Credits.**

Chronological survey of world literatures other than those of England and the U.S. from roughly 1600 to the present. Texts studied will include Nonwestern as well as Western works.

Spring.

**ENGLISH 224. Practicum in Literary Publishing. 3 Credits.**

Hands-on experience in the production of the Sheepshead Review, a literary magazine, from selecting submissions to editing the finished product.

Projects include soliciting manuscripts and researching the literary market.

P: Eng Comp 105 or 228 or ACT English score of 32 or higher; REC: English 212.

Fall and Spring.

**ENGLISH 290. Literary Studies. 3 Credits.**

In this course students will learn how to conduct a literary analysis: how to read literature for complexity, how to make an original, organized argument about a literary text, and how to employ academic prose while developing their own writing voice.

Fall and Spring.

**ENGLISH 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**ENGLISH 301. Intermediate Creative Writing. 3 Credits.**

Analysis of writing in various genres including individual and group criticism of original student materials in workshop context. Variable topics; may be repeated up to total of six credits.

P: English 290 or concurrent enrollment; and English 212 or 213; and Eng Comp 105 or 228 or ACT English score of 32 or higher; and 9 cr of lit cses.

Fall Only.

**ENGLISH 302. Short Fiction Writing Workshop. 3 Credits.**

Advanced practice in the writing of short fiction, including group criticism of student work.

P: English 301.

Spring Even.

**ENGLISH 303. Advanced Poetry Writing Workshop. 3 Credits.**

Advanced practice in the writing of poetry, including group criticism of student work.

P: English 301.

Spring Odd.

**ENGLISH 304. Creative Nonfiction Writing. 3 Credits.**

Advanced study and workshop of creative nonfiction genres such as memoir, essay, book review, and interview.

P: Jr standing; English 290 or concurrent enrollment; Eng Comp 105 or ACT English score of 32 or higher; REC: English 212 or 301

Fall Odd.

**ENGLISH 305. Novel Writing Workshop. 3 Credits.**

Advanced study in the development and writing of the novel, including group critique of student work.

P: English 212 with a grade of at least a B; Eng Comp 105 (or ACT of 32) REC: English 301

Fall Even.

**ENGLISH 312. Topics in Creative Writing. 3 Credits.**

Study and writing of a single topic in creative writing (for example: fairytales, flash fiction, graphic narrative, playwriting, or screenwriting), including individual and group criticism of original student materials in workshop context.

P: Junior standing; Eng Comp 105 or ACT score of 32 or higher. REC: English 212.

**ENGLISH 315. The English Novel: 1700 to the 1850's. 3 Credits.**

The development of the English novel from its beginnings to the mid-Victorian period; includes works by such authors Defoe, Sterne, Fielding, Smolett, Austen, Scott, the Brontes, Thackeray, Dickens and Eliot.

P: English 290 or concurrent enrollment, Jr st.

Fall Only.

**ENGLISH 316. The English Novel: 1850's to the Present. 3 Credits.**

The development of the English novel from Mid-Victorian to modern times; includes works by such authors as Dickens, Eliot, Trollope, Hardy, Wilde, Conrad, Joyce, Woolf, Lawrence, Bowen and Cary.

P: English 290 or concurrent enrollment, Jr st.

Spring.

**ENGLISH 320. Major Drama. 3 Credits.**

Study of one or more British, Irish or American dramatists and dramatic works.

P: English 290 or concurrent enrollment, Jr st.

Fall Odd.

**ENGLISH 322. Major Poetry. 3 Credits.**

Significant non-dramatic poetry from England, Ireland, and/or America.

P: English 290 or concurrent enrollment, Jr st.

Fall Only.

**ENGLISH 323. Topics in Literary Criticism. 3 Credits.**

In-depth examination of one or more topics, issues, or approaches in literary criticism or theory. May be repeated for credit when a different topic is studied.

P: jr st and English 290, or concurrent enrollment

Fall Odd.

**ENGLISH 324. Practicum in Literary Publishing. 3 Credits.**

Hands-on experience in the production of the Sheephead Review, a literary magazine, from selecting submissions to editing the finished product.

Projects include soliciting manuscripts and researching the literary market.

P: Eng Comp 105 or 228 or ACT English score of 32 or higher; REC: English 212.

Fall and Spring.

**ENGLISH 331. Major American Prose Fiction. 3 Credits.**

Study of American prose fiction including examples of novels, short stories and satire; includes works by such authors as Melville, Twain, Fitzgerald, Hemingway, Wright and Bellow.

P: English 290 or concurrent enrollment, Jr st.

Spring.

**ENGLISH 333. Literary Themes. 3 Credits.**

Explores a single theme such as fantasy, war, revolution, love or alienation through the literature of one or several nations. May be repeated for credit when a different theme is studied.

P: Junior standing and English 290 or concurrent enrollment

Spring.

**ENGLISH 335. Literary Eras. 3 Credits.**

Studies the works of a number of writers in relation to their time; includes poetry, prose and drama. May be repeated for credit when a different era is studied.

P: English 290 or concurrent enrollment, Jr st.

Fall Only.

**ENGLISH 336. American Ethnic Literature. 3 Credits.**

The study of literature which examines the experience of ethnic groups in America, such as African, Asian, Hispanic, and Jewish Americans, and American Indians. May be repeated for credit when content is different.

P: English 290 or concurrent enrollment, Jr st.

Spring.

**ENGLISH 338. World Literatures. 3 Credits.**

A study of selected works from world literatures. A variable content course.

P: English 290 or concurrent enrollment, Jr st.

Fall Only.

**ENGLISH 340. History of the English Language. 3 Credits.**

The origins, development, and cultural background of pronunciation and spelling, grammar, vocabulary, meaning and usage in Old, Middle, and Modern English, including contemporary English dialects.

P: none; REC: Hum Stud 160.

Spring Odd.

**ENGLISH 344. African American Literature. 3 Credits.**

Study of African American literature, exploring the aesthetic dimensions and cultural contexts of poetry, fiction, drama, and essays.

P: English 290 or concurrent enrollment, Jr st.

Spring Even.

**ENGLISH 364. Literary Topics. 3 Credits.**

The study of topics, through literature, with a focus on individual and social values. Topics may include subjects (i.e., the natural environment, calamities), genres (i.e., memoirs, detective novels), and adaptations (i.e., Shakespeare and opera). May be repeated for credit when content is different.

P: jr st.

**ENGLISH 431. Shakespeare. 3 Credits.**

Study of a representative selection of Shakespeare's poetry and plays, including comedies, tragedies and histories.

P: English 290 or concurrent enrollment, Jr st.

Spring.

**ENGLISH 436. Major Author(s). 3 Credits.**

Study of one or more important writers in British, Irish, or American literature.

P: English 290 or concurrent enrollment, Jr st.

Spring Even.

**ENGLISH 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**ENGLISH 483C. Advanced Novel Writing Workshop. 3 Credits.**

Revision, development, workshop of a single novel in preparation for marketing and publication. Students entering this course must have completed a novel draft of at least 50,000 words.

P: ENGLISH 305.

**ENGLISH 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**ENGLISH 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**ENGLISH 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Environmental Science (ENV SCI)

### Courses

**ENV SCI 101. Introduction to Becoming a Scientist. 1 Credit.**

Learn about the challenges and rewards of a science major. Acquire essential professional skills using electronic databases and spread sheets that are needed by science majors. Learn about current science and the culture of scientists.

P: Fr or So status only.

Fall and Spring.

**ENV SCI 102. Introduction to Environmental Sciences. 3 Credits.**

Examines the interrelationships between people and their biophysical environment, including the atmosphere, water, rocks and soil, and other living organisms. The scientific analysis of nature and the social and political issues of natural resource use.

Fall and Spring.

**ENV SCI 141. Astronomy. 3 Credits.**

A study of the solar system, stars, galaxies and universe.

Fall and Spring.

**ENV SCI 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**ENV SCI 207. Laboratory Safety. 1 Credit.**

This course examines safety within the science laboratory with emphasis on practical application. Topics include current safety regulations, identification of hazards, chemical labeling and storage, waste management, personal protective equipment, ventilation, spill response, and biosafety.

P: Biology 201 or 203 or Chem 108, 211 or 212 or Hum Biol 204 or conc enr.

Fall and Spring.

**ENV SCI 260. Energy and Society. 3 Credits.**

The issues relating energy and society rather than energy technology per se: global energy flows; sources of energy; energy-related problems, policy and conservation; energy growth; future scenarios.

Fall and Spring.

**ENV SCI 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**ENV SCI 301. Radioactivity: Past, Present, and Future. 3 Credits.**

Radioactive isotopes play a significant role in many aspects of the natural and human environments. People are affected throughout their lives by natural and anthropogenic isotopes at local, national, and global scales. From radon in houses and radium in local drinking water supplies to fallout from Chernobyl, humans are directly impacted through health, economic, and technological pathways.

REC: HS chemistry or earth science, or Geosci 102 with at least a C grade

Fall Only.

**ENV SCI 302. Principles of Ecology. 4 Credits.**

Ecological principles governing interactions of plants and animals in their physical and biotic environments. Focuses on organisms and their environment, populations, communities, ecosystems, and global dimensions.

P: Math 104 or Math Placement of Math 202 or greater; Math 260 or enrolled concurrently in Math 260; Biology 203

Fall and Spring.

**ENV SCI 303. Environmental Sustainability. 3 Credits.**

Principles of environmental sustainability rooted in interdisciplinary and systems perspectives; sustainability of our natural resource system; natural chemical, physical and biological systems which affect and influence sustainable practices; politics and economics of environmental sustainability.

P: None; REC: Env Sci 102

Fall and Spring.

**ENV SCI 305. Environmental Systems. 4 Credits.**

Physical and chemical aspects of natural environmental processes. The movement, transformation, and fate of materials and contaminants.

P: Chem 212 with at least a C grade and Geosci 202 with at least a C grade and Math 104 with at least a C grade and Biology 201/202 with at least a C grade.

Fall and Spring.

**ENV SCI 318. Pollution Control. 3 Credits.**

Government regulations, manufacturing processes, waste minimization, pollution prevention methods and pollution control techniques of major industries.

P: Chem 212 with at least a C grade.

Fall Only.

**ENV SCI 320. The Soil Environment. 4 Credits.**

The physical, chemical and biological properties and principals of soils; formation, classification and distribution of major soil orders; function and management of soils in natural, agricultural and urban environments. Includes field and laboratory experiences.

P: Chem 108 with at least a C grade or 212 with at least a C grade; REC: Geosci 202.

Fall Only.

**ENV SCI 323. Pollution Prevention. 3 Credits.**

Emphasizes principles of pollution prevention and environmentally conscious products, processes and manufacturing systems. Also addresses post-use product disposal, life cycle analysis, and pollution prevention economics.

P: Env Sci 318 with at least a C grade.

Spring Odd.

**ENV SCI 325. Regional Climatology. 3 Credits.**

The elements, controls, and classification of climates; the distribution of climate types over the earth; world patterns of climate.

P: Geosci 222 with at least a C grade or Geog 222 with at least a C grade; REC: Geosci 202.

Fall Only.

**ENV SCI 330. Hydrology. 3 Credits.**

Qualitative study of the principal elements of the water cycle, including precipitation, runoff, infiltration, evapotranspiration and ground water; applications to water resource projects such as low flow augmentation, flow reregulation, irrigation, public and industrial water supply and flood control.

P: Geosci 202 with at least a C grade.

Fall Only.

**ENV SCI 334. Solid Waste Management. 3 Credits.**

This course will focus on technical concepts of solid waste management related to the design and operation of landfills, waste-to-energy systems, composting facilities, recycling facilities, and other emerging waste management technologies.

P: ET 202.

**ENV SCI 335. Water and Waste Water Treatment. 3 Credits.**

Water and waste water treatment systems, including both sewage and potable water treatment plants and their associated collection and distribution systems. Study of the unit operations, physical, chemical and biological, used in both systems.

P: Geosci 202 with at least a C grade or Chem 211 with at least a C grade or Biology 201/202 with at least a C grade.

Spring.

**ENV SCI 336. Environmental Statistics. 4 Credits.**

This course emphasizes the principles of data analysis using the SAS (Statistical Analysis System) software package. It employs primarily environmental examples to illustrate procedures for elementary statistical analysis, regression analysis, analysis of variance and nonparametric analysis.

P: Math 260

Fall and Spring.

**ENV SCI 337. Environmental GIS. 2 Credits.**

This is a project based course where students conduct geospatial data manipulation, analysis and management with a suite of GIS software tools and web-based GIS interfaces. Students will learn about a range of applications of remotely sensed and other geospatial data to natural science problems. Through the course project, students will create a functional GIS to study or model an environmental phenomena or problem.

P: PU EN AF 250 or concurrent enrollment. REC: GEOSCI 202

Fall and Spring.

**ENV SCI 338. Environmental Modeling. 2 Credits.**

Creation and analysis of mathematical models describing environmental systems. How and where mathematical models are used in real life environmental applications. Students will create models and use them to analyze and interpret systems.

P: Math 104, 202 or 203

Fall and Spring.

**ENV SCI 339. Scientific Writing. 2 Credits.**

This course focuses on key elements of scientific writing, including grammar, attention to audience, and building a logical argument. Students will develop their writing skills through mock grant applications, reports, and journal articles.

Spring.

**ENV SCI 370. Emergence of Western Technology. 3 Credits.**

History of the shift in the technological balance of power from 16th century China, India and the Islamic world to western Europe and later to North America.

P: Chem 108 or 211 or Geosci 102 or 202 or 222 or Env Sci 102 or 141 or Geog 222 or Physics 141 or 103 or 180 or 201 and Hum Stud 101 or 201 all courses require at least a C grade.

Fall Odd.

**ENV SCI 401. Stream Ecology. 4 Credits.**

The goal of this course is to develop a profound understanding of the abiotic and biotic processes responsible for shaping the ecosystem in running waters. Focus will be on ecological processes, but nutrient dynamics and fluid mechanics are also important issues as well as the fauna associated to the streambed, mainly macro invertebrates and their ecological role. Theory will be combined with hands on experience providing the student with a tool to manage a stream based on ecological principles.

P: Biology 203

Fall Even.

**ENV SCI 403. Limnology. 4 Credits.**

Limnology is a broad sub-discipline of ecology that is the study of the structural and functional interrelationships of organisms of inland waters as they are affected by their dynamic physical, chemical and biotic environments. In this course, we will examine the dominant organizing principles and the current conceptual advances in the field of limnology focusing on lakes.

P: Biology 203

Fall Odd.

**ENV SCI 415. Solar and Alternate Energy Systems. 3 Credits.**

Study of alternate energy systems which may be the important energy sources in the future, such as solar, wind, biomass, fusion, ocean thermal, fuel cells and magneto hydrodynamics.

P: Physics 104 with at least a C grade or 202 with at least a C grade.

Spring Even.

**ENV SCI 421. Geoscience Field Trip. 1-3 Credits.**

Intensive three or four-day field study tour of the geology, soils, and landscapes of Wisconsin and/or surrounding states. Each offering will focus on a different geological theme and will focus on a specific region. Cost of transportation, guidebook, meals and lodging borne by student.

P: Geosci 202 with at least a C grade OR Consent of the instructor.

Fall and Spring.

**ENV SCI 424. Hazardous and Toxic Materials. 3 Credits.**

The handling, processing, and disposal of materials which have physical, chemical, and biological properties that present hazards to human, animal, and plant life; procedures for worker safety and for compliance with regulations. The metals and nonmetals, carcinogens, radioactive materials, and pathogenic human, animal, and plant wastes.

P: CHEM 212

Spring Even.

**ENV SCI 425. Global Climate Change. 3 Credits.**

Examines changes in global climate with emphasis on the processes by which climate change occurs. Focuses on the recent changes in the concentration of atmospheric greenhouse gases and their impact on the earth's global energy budget. Examines the potential environmental impact of a changed climate.

P: Geosci 222 with at least a C grade, Geog 222 with at least a C grade or Env Sci 102 with at least a C grade.

**ENV SCI 432. Hydrogeology. 3 Credits.**

Introduction to the geological and physical principles governing ground water flow. Description of aquifer properties, chemical processes, equation of flow, well hydraulics, and environmental concerns.

P: Geosci 202 with at least a C grade; REC: Env Sci 330 with at least a C grade; Math 202.

Spring.

**ENV SCI 433. Ground Water: Resources and Regulations. 3 Credits.**

An overview of the geology, properties, flow, and pollution of ground water systems. Techniques of aquifer characterization and water quality monitoring are introduced and evaluated. Regulatory and policy approaches to moderate use and ensure adequate high quality supplies of this valuable resource in the future are also reviewed.

P: GEOSCI 202

Fall Even.

**ENV SCI 460. Resource Management Strategy. 3 Credits.**

Application of the principles of systems analysis to the sustainable use of material and energy resources. Emphasis on use of analytical tools of economics (e.g. costs-benefit, cost-effectiveness, and risk-benefit analysis) and the process of public policy making and implementation.

REC: background in econ and conservation.

Fall and Spring.

**ENV SCI 464. Atmospheric Pollution and Abatement. 3 Credits.**

This course will provide students an understanding of atmospheric processes and weather patterns and how they affect pollutant transport. Sources, sinks, environmental effects, and abatement technologies for air pollutants will be addressed. Atmospheric reactions that create pollution or deplete stratospheric ozone will be included.

P: CHEM 212 and CHEM 214 and ET 201

Fall Odd.

**ENV SCI 467. Capstone in Environmental Science. 4 Credits.**

A project-based course in which students address a practical application of scientific and mathematics skills in the environmental sciences. Topics vary.

P: Env Sci 302 with at least a C grade or 305 with at least a C grade, and Math 260 with at least a C grade

Fall and Spring.

**ENV SCI 469. Conservation Biology. 4 Credits.**

Overview of the major issues and ecological principles underlying the field of conservation of biology, including patterns and measurement of biological diversity from genetic to community scales.

P: Env Sci 302 with at least a C grade or consent of instructor

Fall Only.

**ENV SCI 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**ENV SCI 491. Senior Thesis/Research in Environmental Science. 3-4 Credits.**

A project-based capstone experience where individual students address a specific aspect of the environmental sciences through the use of scientific and mathematical skills.

P: Env Sci 302 with at least a C grade or 305 with at least a C grade; Math 260 with at least a C grade; instr consent. REC: Env Sci 302 and 305.

Fall and Spring.

**ENV SCI 492. Practicum in Environmental Science. 1-4 Credits.**

A project-based course in which students address a practical application of scientific and mathematics skills in the environmental sciences. Topics vary.

P: Env Sci 302 with at least a C grade or 305 with at least a C grade, and Math 260 with at least a C grade. REC: Env Sci 302 and 305

Fall and Spring.

**ENV SCI 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. All internships must be taken P-NC.

P: jr st and gpa > or = 2.75 and completion of 3 UL cses in maj or min.

Fall and Spring.

**ENV SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**ENV SCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## English as a Second Language (ESL)

### Courses

**ESL 80. Grammar I. 3 Credits.**

This course will further students' understanding of English syntax, morphology and structure. Students will focus on productive mastery of verb agreement and tense as well as the syntactic framework of English. Students will learn about dependent and independent clauses and appropriate use of conjunctions to increase confidence using a variety of sentence structures in both oral and written production.

**ESL 81. Reading and Vocabulary I. 3 Credits.**

This course is designed for students who struggle to read in English, and are not yet confident in their ability to extract important information from a text. In this course we will focus on using contextual clues to create meaning from unfamiliar vocabulary and confusing semantic structures. Students will learn to extract main ideas, gain comfort with a variety of texts including fiction, non-fiction, academic textbooks, news articles, internet search results, etc.

**ESL 82. Writing Workshop I. 6 Credits.**

This course will focus on moving students from basic, short paragraphs to 5 paragraph essays with topic sentences and supporting details that reinforce well-formed thesis statements. Students will learn about focus, organization and cohesion in their writing, with an emphasis on creating strong arguments that are clearly conveyed with American stylistic conventions.

**ESL 83. Listening and Speaking for Everyday Life. 3 Credits.**

This course is designed for non-native speakers of English who are seeking to improve their skills for social interactions. A combination of structured and semi-structured production opportunities will help learners to feel confident in everyday interactions. Students will participate in conversations, debates and presentations about current events, cultures around the globe, and many other topics of interest! Opportunities for listening for understanding will be met with a variety of contexts including guest speakers, movies and news clips.

**ESL 85. Understanding American Culture. 3 Credits.**

Living in a country and among a people who are not your own can prove to be a bit overwhelming and challenging at times. This integrated skills course will focus on cultural adjustment and gaining a better understanding American culture through field experiences, media exposure, readings, and class discussion. Students will grow in their understanding of role of gender and race in America, family life, holidays, leisure activities and a little bit of history, too. Students will emerge from this course with an increased ability to work cross-culturally with partners and in groups as they pursue further study.

**ESL 90. Grammar II. 3 Credits.**

This course will continue student understanding of advanced grammatical structures. Students will discuss tense and agreement, modals, active/passive tense, subordinate clauses, parallel structure and more. Students will become more effective writers and more confident communicators through this coursework.

**ESL 91. Reading & Vocabulary II. 3 Credits.**

This course will focus on being able to identify main ideas and details that will enable students to summarize academic texts. Students will build reading fluency and develop techniques to assist them with the reading load of university. These skills include skimming, scanning, asking questions of the text, as well as identifying and defining critical vocabulary.

**ESL 92. Writing Workshop II. 6 Credits.**

This course will introduce students to the concept of writing as recursive process. Students will understand how to develop a thesis, and how to use that thesis to communicate clearly and effectively using strong supporting details throughout their essays. Students will focus on creating effective transitions that smooth communication and highlight important details. Students exiting this course will understand the importance of proper grammar and spelling for effective communication. The course will culminate in a research paper in which students learn research techniques and gain an understanding of proper citations.



**ESL 93. Listening & Note-taking II. 3 Credits.**

In this course, students will be exposed to university style lectures and develop strategies for effective note-taking within that setting. In addition, this course will focus on student response time for academic conversations. Students will focus on the ability to hear, comprehend, process and respond in a timely manner when working in academic settings with professors and other students. Enhancing these skills will be crucial to your academic success!.

**ESL 94. Advanced Oral Communication. 3 Credits.**

This course is designed for students who are preparing to engage in university level academic coursework. Emphasis will be placed on enhancing students' communicative skills in both formal and informal academic settings. We will focus on oral fluency in developing appropriate syntactic and semantic structures as well as accent reduction. Students will learn the importance of stress, rhythm and intonation in the American English accent. Students enrolling in this course should be prepared to take new risks and stretch the limits of what they can do with their English!.

## First Nations Studies (FNS)

### Courses

**FNS 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**FNS 210. American Indians In Film. 3 Credits.**

This course examines how Hollywood films both construct and appropriate images of American Indians. Students will view films beginning with the silent film era and ending with contemporary movies while exploring and challenging common stereotypes of Native people.

**FNS 211. First Nations Service Learning. 3 Credits.**

In this course students are placed in the field in K-8 classrooms as academic tutors to Native youth as academic tutors to First Nations children. The course teaches skills and dispositions to work with children, teachers, staff and administrators in K-8. Through extensive field work in K-8 classrooms, undergraduates develop successful relationships in the schools, experience early classroom involvement, and interact with elementary and middle school students. The course is unique in its emphasis on indigenous education and working with First Nations youth and tribal Elder teachers.

P: As required to work in WI public schools, students must pass a background check and students must pass a TB test.

Fall and Spring.

**FNS 216. Native American Landscapes: Imagined and Lived Spaces. 3 Credits.**

The course will explore the relationship between time and space within Native American cultures. The course will compare North American indigenous landscapes and Andean indigenous landscapes.

**FNS 224. First Nations and The Sacred. 3 Credits.**

This course explores the world views and oral traditions of First Nations people. Students will examine concepts, ideas, accompanying opinion, and practices within the holistic concept of the Sacred.

**FNS 225. Introduction to First Nations Studies: The Tribal World. 3 Credits.**

This introductory course to First Nations Studies presents the American Indian tribal cultural context through both information and class structure. A core value is personal sovereignty supported by respect, reciprocity, and relationship.

Fall and Spring.

**FNS 226. Introduction to First Nations Studies: Social Justice. 3 Credits.**

This introductory course in First Nations Studies will examine the impact of European and American political, economic, and social systems upon American Indian nations in the U.S.

Fall and Spring.

**FNS 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**FNS 301. Oneida Language I. 3 Credits.**

A course on the Oneida language typically offered in the Oneida community with the aid of native speakers. Emphasis varies with student interest. Tools and resources for further independent study are stressed.

Fall and Spring.

**FNS 302. Oneida Language II. 3 Credits.**

A course on the Oneida language typically offered in the Oneida community with the aid of native speakers. Emphasis varies with student interest. Tools and resources for further independent study are stressed.

P: FNS 301.

Fall and Spring.

**FNS 303. Oneida Language III. 3 Credits.**

A course on the Oneida language typically offered in the Oneida community with the aid of native speakers. Emphasis varies with student interest. Tools and resources for further independent study are stressed.

P: FNS 302.

Fall and Spring.

**FNS 304. Oneida Language IV. 3 Credits.**

A course on the Oneida language typically offered in the Oneida community with the aid of native speakers. Emphasis varies with student interest. Tools and resources for further independent study are stressed.

P: FNS 303.

**FNS 305. Oneida Language V. 3 Credits.**

A course on the Oneida language typically offered in the Oneida community with the aid of native speakers. Emphasis varies with student interest. Tools and resources for further independent study are stressed.

P: FNS 304.

**FNS 306. Oneida Language VI. 3 Credits.**

A course on the Oneida language typically offered in the Oneida community with the aid of native speakers. Emphasis varies with student interest. Tools and resources for further independent study are stressed.

P: FNS 305.

**FNS 336. American Ethnic Literature. 3 Credits.**

The study of literature which examines the experience of ethnic groups in America, such as African, Asian, Hispanic, and Jewish Americans, and American Indians. May be repeated for credit when content is different.

P: English 290 or concurrent enrollment, Jr st.

Spring.

**FNS 360. Women and Gender in First Nations Communities. 3 Credits.**

This course examines the traditional and contemporary status of First Nations women. The course focuses on the fluid definitions and constructions of gender identity before and after Euro-American contact, exploring the intersections of racism, sexism, homophobia, colonialism, globalization. Decolonization and resistance are primary themes of the course.

REC: FNS 225, FNS 226 or WOST 241.

**FNS 372. Indigenous Nations Oral and Storytelling Traditions. 3 Credits.**

Study of the cultural values of Indigenous Nations in North America reflecting the indigenous intellect. Indigenous elder knowledge, story telling methodology, and literature (poetry, and novels) are explored.

P: FNS 225 or 226 or one 300/400 level literature course.

Spring.

**FNS 374. Wisconsin First Nations Ethnohistory. 3 Credits.**

An in-depth examination of one American Indian nation now located in Wisconsin: Anishinabe (Ojibway), Oneida (Iroquois), Menominee, Potawatomi or Mohican. This course explores the culture and history of one of these nations.

Spring.

**FNS 385. Perspectives on Human Values: First Nations. 3 Credits.**

Drawing upon American Indian oral traditions and Elder epistemology, this course will examine the diverse traditional, cultural, spiritual, and political values and world views of American Indian Nations.

P: FNS 225 or 226.

Spring Odd.

**FNS 391. First Nations Studies Seminar. 3 Credits.**

This course is designed for students who already have a background in American Indian Studies. It is a variable content course which includes such topics as contemporary issues, environmental justice, American Indian law, and repatriation.

P: Hum Stud 225 and 226.

Fall Odd.

**FNS 392. First Nations Justice and Tribal Governments. 3 Credits.**

This course explores the pre-contact justice systems and constructions of "justice" among American Indian nations. The impact of colonization upon these structures will be examined as well as the formation and operation of contemporary tribal governing structures.

P: Hum Stud 225 or 226 or Soc C D 204 or 325.

Spring Even.

**FNS 393. First Nations and Education Policy. 3 Credits.**

Basic background and vocabulary necessary to understand, discuss, and analyze the complex variables and important common denominators that affect Tribal and U.S. citizens, particularly through education policy at the federal/state levels.

P: Hum Stud 225 or 226.

Fall Even.

**FNS 399. First Nations Studies Oral Tradition Concentration. 3-12 Credits.**

The FNS Oral Tradition Concentration allows students an opportunity to study tribal oral traditional knowledge in a variety of settings including working with American Indian tribal members and Elders.

P: FNS major or minor; FNS 225, 226; Instructor Approval.

Fall and Spring.

**FNS 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

**FNS 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**FNS 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**FNS 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## French (FRENCH)

### Courses

**FRENCH 101. Introduction to the French Language I. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in French.

Fall Only.

**FRENCH 102. Introduction to the French Language II. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in French.

P: none; REC: 1 yr h.s. or 1 sem college French.

Spring.

**FRENCH 201. Intermediate French Language I. 3 Credits.**

Further development of the ability to understand, read and speak French.

P: none; REC: 2 yrs h.s. or 2 sem college French.

Fall Only.

**FRENCH 202. Intermediate French Language II. 3 Credits.**

Further development of the ability to understand, read and speak French.

P: none; REC: 3 yrs h.s. or 3 sem college French.

Spring.

**FRENCH 225. Intermediate French Conversation and Composition. 3 Credits.**

Development of greater fluency through classroom practice in conversation and composition.

P: none; REC: 4 yrs h.s. or 4 sem college French.

Fall Only.

**FRENCH 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**FRENCH 325. Advanced French Conversation and Composition. 3 Credits.**

Continues development of fluency through intensive practice and study of the spoken and written language. Stresses accurate use of grammatical structures and sensitivity to differences in style, tone and levels of language from colloquial to formal.

P: French 225.

Spring.

**FRENCH 329. Representative French Authors. 3 Credits.**

Important novels, plays, poems, and essays representative of major eras and movements of French society foster appreciation of the language and understanding of the literature and culture. Includes different styles of writing and differing treatment of recurring themes. Offered in the language. May be repeated for credit when different subtitle is studied.

P: French 225.

Spring.

**FRENCH 333. Literary Themes. 3 Credits.**

Explores a single theme such as fantasy, war, revolution, love, alienation, through the literature of one or many nations. May be repeated for credit when a different theme is studied.

P: French 225.

Fall Odd.

**FRENCH 345. Advanced French Grammar and Translation. 3 Credits.**

In-depth review and continued study of French grammar, including fundamentals of comparative English-French grammar, and basic principles of translation from French into English and English into French.

P: French 225.

Fall Odd.

**FRENCH 346. French Phonetics and Public Speaking. 3 Credits.**

Intensive study of French sound system to improve accuracy of pronunciation and intonation. Different accents studies. Intonation patterns needed for different social situations practiced.

P: French 225.

Fall Even.

**FRENCH 354. France Today. 3 Credits.**

Aspects of French history and traditional customs and values of contemporary French culture, including rural and urban life, industry and commerce, art and music, etc.

P: French 225.

Fall Even.

**FRENCH 355. Le Monde Francophone. 3 Credits.**

A study of the French-speaking (francophone) world outside of France. Students will become familiar with essential features of the geography, history, and culture of francophone countries on five continents.

P: French 225.

Spring Even.

**FRENCH 367. Business French. 3 Credits.**

Students read and discuss business articles and correspondence, cultural aspects of business communication. Areas include banking, correspondence, import-export, computers.

P: French 225.

Spring Odd.

**FRENCH 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**FRENCH 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

Fall and Spring.

**FRENCH 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**FRENCH 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Geography (GEOG)

### Courses

**GEOG 102. World Regions and Concepts: A Geographic Analysis. 3 Credits.**

Contemporary geography, its viewpoints and methodology; geographic reality of the present-day world is analyzed through case studies using both the regional approach and systematic analysis.

Fall Only.

**GEOG 210. Human Geography and Concepts. 3 Credits.**

This course introduces you to some of the major topics and models studied in human geography. Specifically, this course will examine the global patterns of population, culture, economic and political systems, and the interconnectedness at the international, national, and sub-national scales.  
Fall Only.

**GEOG 222. Ocean of Air: Weather and Climate. 3 Credits.**

Fundamental processes of the atmosphere, the resulting weather and climate, and the effects of the atmosphere on other aspects of the earth's environments and on humans.

Fall and Spring.

**GEOG 250. Displays of Geographic Information. 3 Credits.**

The appreciation, use, and evaluation of maps and air photos as informational sources.

Fall Only.

**GEOG 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**GEOG 321. Coastal Resources Policy and Management. 3 Credits.**

The importance of coastal resources, with an emphasis on Wisconsin's coasts. With field trips to local lakes and Lake Superior, we will study issues of development, overuse, risk, and their consequent environmental, aesthetic and economic impacts.

Fall Only.

**GEOG 325. Regional Climatology. 3 Credits.**

The elements, controls, and classification of climates; the distribution of climate types over the earth; world patterns of climate.

P: Geosci 222 with at least a C grade or Geog 222 with at least a C grade; REC: Geosci 202.

Fall Only.

**GEOG 341. The City and its Regional Context. 3 Credits.**

The course will focus on two main interrelated themes in urban geography. It will explore urban places as systems operating as an entity among other cities and the surrounding region. Second, it will explore social construction of urban morphology.

P: jr st.

Spring.

**GEOG 350. GIS in Public and Environmental Policy. 2 Credits.**

Uses state-of-the-art software to integrate digitized data maps, transfer data, manage relational data bases, overlay maps, display, query, edit interactive graphics, and geocode addresses. Focus is upon GIS applications tailored to public and environmental policy, e.g., tax base analysis, property mapping, natural resources inventory, crime demography, transportation routing, natural hazards, and emergency management.

P: Pu En Af 250

Fall and Spring.

**GEOG 351. Elements of Cartography. 3 Credits.**

Principles of basic cartography, including problem identification and clarification, data collection and analysis, compilation, generalization, and symbolization; presentation of data on medium and large scale maps.

P: sophomore standing

Spring.

**GEOG 353. Air Photo Interpretation. 3 Credits.**

Techniques for the interpretation of human and natural land use. Wide variety of aerial photo formats and scales are used. Vertical and oblique photos, satellite images, and Internet web sites incorporated into course material.

P: sophomore standing

Fall Only.

**GEOG 370. Geography of South America. 3 Credits.**

A survey course which will explore the physical features, resources, people, and the political economy of the American southern hemisphere.

P: jr st; REC: Env Sci 102 or Geog 222.

Fall Even.

**GEOG 421. Geoscience Field Trip. 1-3 Credits.**

Intensive three or four-day field study tour of the geology, soils, and landscapes of Wisconsin and/or surrounding states. Each offering will focus on a different geological theme and will focus on a specific region. Cost of transportation, guidebook, meals and lodging borne by student.

P: Geosci 202 with at least a C grade OR Consent of the instructor.

Fall Odd.

**GEOG 450. Advanced Geographic Information Systems. 3 Credits.**

Project-based course using ArcGIS. Students define a project, develop a database, analyze spatial data, and develop GIS maps displaying results of their analysis.

P: Geog 350 or Pu En Af 350.

Spring Even.

**GEOG 470. Quaternary Geology. 3 Credits.**

Understanding the extremes in environmental behavior which characterize Pleistocene time. Principles of glaciology and the impact of glaciation on the landscape.

P: Geosci 202 with at least a C grade; REC: Geosci 203.

Spring Even.

**GEOG 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**GEOG 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**GEOG 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Geoscience (GEOSCI)

### Courses

**GEOSCI 102. Natural Hazards. 3 Credits.**

Explores the dynamic character of the Earth System by characterizing and understanding the causes and consequences of natural hazards. Hazards considered will include earthquakes, tsunamis, volcanic hazards (local, regional, global scales), meteorological hazards (hurricanes, tornadoes, flooding, coastal erosion), and landslides.

Fall and Spring.

**GEOSCI 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**GEOSCI 202. Physical Geology. 4 Credits.**

Description and analysis of the geological processes that shape the earth's major internal and external features. Origins, properties and use of the earth's rock and mineral resources. Students will not receive credit for both Geosci 202 and Geosci 102.

Fall and Spring.

**GEOSCI 203. Geologic Evolution of the Earth. 3 Credits.**

The physical history of the earth through geologic time and the attendant evolution of plants and animals; principles governing interpretation of the rock and fossil record; unraveling of events culminating in modern landscape and life forms.

P: Geosci 202 with at least a C grade.

Spring.

**GEOSCI 204. Geologic Evolution of the Earth Laboratory. 1 Credit.**

Practical application of geologic principles and techniques to interpretation of earth history.

P: Geosci 203 with at least a C grade or conc enr.

Spring.

**GEOSCI 222. Ocean of Air: Weather and Climate. 3 Credits.**

Fundamental processes of the atmosphere, the resulting weather and climate, and the effects of the atmosphere on other aspects of the earth's environments and on humans.

Fall and Spring.

**GEOSCI 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**GEOSCI 301. Introduction to Geoscience Field Methods. 2 Credits.**

A survey of methods of field investigations including description and measurement of rock sequences, introduction to geological mapping, surveying, and writing geological reports.

P: Geosci 202.

Spring Odd.

**GEOSCI 340. Introduction to Mineralogy & Petrology. 4 Credits.**

Explores mineral chemistry and structures, identification, association, and occurrence. Surveys the distribution, chemistry, and mineral associations in relation to tectonic environment to interpret rock forming processes.

P: Geosci 202 with at least a C grade.

Fall Only.

**GEOSCI 402. Sedimentology & Stratigraphy. 3 Credits.**

Modern concepts and techniques used to study and interpret the origins and distribution of sediments and sedimentary rocks; principles of bio-stratigraphy and physical stratigraphy and sedimentology.

P: Geosci 202 with at least a C grade and 203 with at least a C grade.

Fall Even.

**GEOSCI 425. Global Climate Change. 3 Credits.**

Examines changes in global climate with emphasis on the processes by which climate change occurs. Focuses on the recent changes in the concentration of atmospheric greenhouse gases and their impact on the earth's global energy budget. Examines the potential environmental impact of a changed climate.

P: Geosci 222 with at least a C grade, Geog 222 with at least a C grade or Env Sci 102 with at least a C grade.

**GEOSCI 432. Hydrogeology. 3 Credits.**

Introduction to the geological and physical principles governing ground water flow. Description of aquifer properties, chemical processes, equation of flow, well hydraulics, and environmental concerns.

P: Geosci 202 with at least a C grade; REC: Env Sci 330 with at least a C grade; Math 202.

Spring.

**GEOSCI 470. Quaternary Geology. 3 Credits.**

Understanding the extremes in environmental behavior which characterize Pleistocene time. Principles of glaciology and the impact of glaciation on the landscape.

P: Geosci 202 with at least a C grade; REC: Geosci 203.

Spring Even.

**GEOSCI 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

**GEOSCI 492. Special Topics in Earth Science. 1-4 Credits.**

Topics not covered by regular courses, such as mineralogy-petrology, crustal movements, geologic field methods, geology of Wisconsin, and others. Offerings of different topics can be repeated for credit.

Fall and Spring.

**GEOSCI 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**GEOSCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**GEOSCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## German (GERMAN)

### Courses

**GERMAN 101. Introduction to the German Language I. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in German.

Fall Only.

**GERMAN 102. Introduction to the German Language II. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in German.

P: none; REC: 1 yr h.s. or 1 sem college German.

Spring.

**GERMAN 201. Intermediate German Language I. 3 Credits.**

Further development of the ability to understand, read and speak German.

P: none; REC: 2 yrs h.s. or 2 sem college German.

Fall Only.

**GERMAN 202. Intermediate German Language II. 3 Credits.**

Further development of the ability to understand, read and speak German.

P: none; REC: 3 yrs h.s. or 3 sem college German.

Spring.

**GERMAN 225. Intermediate German Conversation and Composition. 3 Credits.**

Development of greater fluency through classroom practice in conversation and composition.

P: none; REC: 4 yrs h.s. or 4 sem college German.

Fall Only.

**GERMAN 285. Study Abroad: Germany. 3-15 Credits.**

P: cons of instr & prior trip arr & financial deposit.

**GERMAN 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**GERMAN 325. Advanced German Conversation and Composition. 3 Credits.**

Continues development of fluency through intensive practice and study of the spoken and written language. Stresses accurate use of grammatical structures and sensitivity to differences in style, tone and levels of language from colloquial to formal.

P: German 225.

Spring.

**GERMAN 329. Representative German Authors. 3 Credits.**

Important novels, plays, poems, and essays representative of major eras and movements of German society foster appreciation of the language and understanding of the literature and culture. Includes different styles of writing and differing treatment of recurring themes. Offered in the language. May repeat for credit if different authors are studied.

P: German 225.

Fall Only.

**GERMAN 333. Literary Themes. 3 Credits.**

Explores a single theme such as fantasy, war, revolution, love, alienation, through the literature of one or many nations. May be repeated for credit when a different theme is studied.

P: German 225.

Spring Even.

**GERMAN 335. Literary Eras. 3 Credits.**

Studies the works of a number of writers in relation to their time; includes poetry, prose and drama. May be repeated for credit when a different era is studied.

P: German 225.

Spring Even.

**GERMAN 345. Advanced German Grammar. 3 Credits.**

This course will assist students in improving their overall language proficiency by focusing on more challenging aspects of German syntax and semantics.

P: German 225.

Fall Odd.

**GERMAN 350. Major German Drama. 3 Credits.**

Study of German drama either by period or by theme. May be repeated for credit when content is different.

P: German 225.

Spring Odd.

**GERMAN 351. Major German Prose Fiction. 3 Credits.**

Study of German short story and/or novels either by period or by theme.

P: German 225.

Fall Even.



**GERMAN 352. Major German Poetry. 3 Credits.**

Study of German poetry either by period or by theme.

P: German 225.

Spring Odd.

**GERMAN 355. Deutsche Kultur und Landeskunde. 3 Credits.**

Expands students' linguistic and cultural proficiency in German through discussion of German history, politics and the arts.

P: German 225.

Spring Even.

**GERMAN 356. German Culture. 3 Credits.**

The culture of the German-speaking world from the earliest periods to the present with a focus on how contemporary Germany has been shaped by issues of history, religion, art, music, philosophy, and commerce.

P: German 225.

Fall Odd.

**GERMAN 357. German Cinema. 3 Credits.**

Historical and critical introduction to the work of prominent German filmmakers and to cinematic representations of German culture.

P: German 225.

Fall Even.

**GERMAN 420. Business German. 3 Credits.**

Examines business culture and practices in the German speaking world. Practical exercises, including specialized vocabulary for telephoning, writing business correspondence and a German CV, are combined with an analysis of German corporate structures, industry, labor, management, banking, marketing and advertising.

P: German 225.

Spring Even.

**GERMAN 425. German Translation Studies. 3 Credits.**

This course will introduce students to the theory and practice of translating both into and from modern German. Through readings in translation theory and comparative linguistics as well as through group work, students will become aware of the structures and nuances of both languages.

P: German 225; REC: German 345.

Spring Odd.

**GERMAN 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**GERMAN 485. Study Abroad: Germany. 3-15 Credits.**

A semester of study at the University of Kassel in Germany. Students register before departing; upon return, they must submit descriptions of courses taken, evaluations from professors, a formal certificate, and a letter grade.

P: cons of instr & prior trip arr & financial deposit.

Fall and Spring.

**GERMAN 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

Fall and Spring.

**GERMAN 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**GERMAN 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Health Information Mgmt & Tech (HIMT)

## Courses

### **HIMT 300. Survey of Contemporary Computing. 3 Credits.**

This course provides a basic overview of contemporary information technology and computers. Topics include computer concepts (e.g., hardware, system architectures, operating systems, etc.), communication technologies, Internet technologies, and data organization/structures. Special emphasis placed on database management systems and data warehousing.  
Fall and Spring.

### **HIMT 310. Healthcare Systems and Organizations. 3 Credits.**

This course provides an overview of how healthcare and public health are organized and how their services are delivered in the United States (US). Topics to be covered include: public policy (including US health reform initiatives), organization of healthcare systems, components and operation of healthcare organizations including e-health delivery, professional roles and accreditation, legal and regulatory issues including licensure requirements.  
Fall Only.

### **HIMT 320. Survey of Information Technology in Healthcare. 3 Credits.**

Essential healthcare information technologies (HIT) that are used for healthcare information systems (HISs) are examined. Popular HISs include electronic medical record systems (EMRS), the computerized provider order entry systems, telemedicine, telehealth and e-prescribing.  
Spring.

### **HIMT 330. Healthcare I: Terminology & Body Systems. 3 Credits.**

Specific terminology and vocabulary used by workers in healthcare and public health will be examined. Topics include medical terminology that broadly relates to human anatomy and physiology, body systems and diagnosis, including prefixes, suffixes, roots and combined forms. Topics will also include healthcare taxonomies and nomenclatures (e.g. ICD-9-CM, ICD-10, etc.).  
Fall Only.

### **HIMT 340. Ethical issues, Security Management and Compliance. 3 Credits.**

This course introduces three broad subjects: 1) evidence-based medical ethics pertaining to healthcare information management, 2) framework of healthcare information security management including security principles, policies and procedures, security management models, risk assessment, and protection mechanisms, 3) healthcare regulations and compliance with focuses on the legislative systems, policies, and legal environment in the U.S. and the existing health information laws, regulations and standards. Also addressed are the elements and development of compliance programs.  
Spring.

### **HIMT 345. Programming and Software Development. 3 Credits.**

Introduction to: object-oriented (OO) programming paradigm, OO systems analysis and design, fundamental data structures, and n-tier software design. Examination of the role of each in the software development process.  
Fall Only.

### **HIMT 350. Statistics for Healthcare. 3 Credits.**

This is an introductory course in statistical methods for the health sciences. The course will emphasize the principles of statistical reasoning, underlying assumptions, hypothesis testing, and careful interpretation of results. Some topics covered; major study designs, descriptive statistics, graphical displays of data, probability, confidence intervals and tests for means, differences of means, sample size and power, differences of proportions, chi-square tests for categorical variables, regression, multiple regression, and non-parametric statistics.  
Fall and Spring.

### **HIMT 355. Principles of Management for HIMT Professionals. 3 Credits.**

This course provides an overview of basic principles involved in management and communication. Topics include basic management principles, communication skills, interpersonal communication competence, negotiation technique, team/consensus building, professional development, and problem solving/decision-making processes.  
Fall Only.

### **HIMT 360. Healthcare II: Survey of Disease & Treatments. 3 Credits.**

This course further investigates the topics covered in HIMT 330 Health Care I. Based on each body system the course will further expand into the topics of human disease, human health issues and classification of disease/health issues. Diagnostics, Treatment and Clinical procedures that are currently in practice. In addition, the course will incorporate Pharmacotherapeutic concepts (drugs and therapies to treat/prevent/control human disease/health issues), investigating the variety of drugs used for disease treatment for each body system, this will include the current biologicals that are used for treatment. Topics will include how the drugs and biologicals work, their limitations, and the current diversity of available drugs and biologicals.  
Spring.

### **HIMT 365. Healthcare Economics. 3 Credits.**

Applications of microeconomic theory to analyze the behavior of health and health care markets. Topics will include: supply and demand of health care services, private health insurance markets, government provision of health care services and health insurance, and health care policy.  
Fall Only.

**HIMT 370. Healthcare Systems: Analysis & Design. 3 Credits.**

This is the first course in a two-course sequence that addresses methods and techniques of healthcare information system (IS) analysis and design as performed within the system development life cycle. Included will be techniques for problem definition, requirements gathering, analysis, logical design, selection and evaluation of alternative healthcare information systems solutions from the point of view of the health provider and user. An emphasis is placed on analysis, selection, and evaluation of information systems as they relate to healthcare.

Spring.

**HIMT 375. Database Structures and Management Systems. 3 Credits.**

Analyze and design databases to support computer-based information systems. Develop and implement relational database management systems using SQL. Topics include: data modeling techniques such as entity-relationship modeling, extended entity-relationship modeling, database constraints, database normalization techniques, and basic and advanced features of database query language SQL, etc.

Spring.

**HIMT 380. Healthcare Billing, Coding and Reimbursement. 3 Credits.**

This course examines the coding and reimbursement connection; topics include managed care plans, prospective payment systems, Medicare-Medicaid reimbursement, resource-based Relative Value Scale, case mix management, and revenue cycle management.

Fall Only.

**HIMT 400. Healthcare Information and Technology - Data. 3 Credits.**

This course explores the sources and data contents of health-care information as well as the proper presentation of it for different usage levels. Topics addressed include: 1) data structure and use of health information (individual, comparative and aggregate), 2) type and content of health record, 3) data quality assessment, 4) secondary data sources, 5) healthcare data sets, 6) Health information archival systems, and 7) National Healthcare Information Infrastructure (NHII). The course will also cover topics in bioinformatics.

Spring.

**HIMT 410. Healthcare Systems: Implementation and Integration. 3 Credits.**

Covers the back-end stages of healthcare systems development lifecycle through the procurement route: development of technical design specifications, procurement procedures (RFP, RFQ, vendor evaluation and selection, and contracting), systems configuration and integration, installation, conversion, operation, and maintenance. Pre-installation testing and post-conversion auditing and monitoring will be emphasized to address the upcoming requirements of federal certification of EHR systems.

Spring.

**HIMT 415. Human Resource Management in Healthcare. 3 Credits.**

This course examines the role of HIM staff in managing human resources to facilitate staff recruitment, retention and supervision.

Spring.

**HIMT 420. Healthcare Systems: Project Management. 3 Credits.**

This course addresses the phenomenal impact information system (IS) projects have had on healthcare delivery. Students learn how healthcare IS projects affect organizations, doctors, patients, and chronic-illness treatments, as well as individuals interested in managing their own healthcare. Concepts and tools for effective healthcare IS project management, process re-engineering and work redesign are introduced. The purpose of this course is to expose students to IS project management activities in healthcare settings. Topics covered include recent healthcare IS project trends, budgeting, scheduling, resource management, scope, risk analysis, and deployment controls. The genesis of healthcare project management is covered using specific cases and examples.

Fall Only.

**HIMT 425. Data Warehousing and Mining. 3 Credits.**

Examine the concept of data warehouse and its effectiveness in supporting strategic decision making. Address the process of creating data warehouse/data-mart solutions from the identification of the enterprise informational and analytical needs to producing business intelligence by extracting information from the data warehouse by using data mining methods and models.

**HIMT 430. Quality Assessment and Improvement. 3 Credits.**

This course examines the Quality Assessment and Quality Improvement cycle (Plan, Do, Act, Check) and the role of the HIT/HIM in the process. Tools used in quality and risk management processes will be examined.

Spring.

**HIMT 435. Data Communications and Networks in Healthcare. 3 Credits.**

This course provides fundamentals of data communications and networking techniques, and examines the linkage of information technology strategies and technological solutions enabling effective communication within and between health care organizations. Major topics include fundamental concepts of data communications and applications, network communication devices, basic technologies of the Local Area Network, Wireless Local Area Network, Wide Area Network, Internet and the Web, the OSI stack, health care information systems standards, and the HIE, RHIN, and the NHIN.

Fall Only.

**HIMT 440. Group Processes, Team Building and Leadership. 3 Credits.**

This course introduces students to the necessary group/team processes that are at the root of building, developing, and maintaining medical/healthcare work teams and the effective functioning of such teams. The course also provides an overview of leadership development techniques. Also included is a focus on the uses of various communication technologies in the team building and functioning processes.

P: None.

**HIMT 445. Application of Leadership & Management in Healthcare Technology. 3 Credits.**

This course assimilates and integrates concepts and applications of management and leadership in the healthcare advancing on the topics covered in HIMT 355, 365 and 415. Topics will include strategic leadership concepts, exploring key factors that impact management and planning, change management, critical organizational behaviors for leadership and management focusing on best practices and organizational accountability and assessment models.

**HIMT 450. Healthcare Information and Technology - Standards. 3 Credits.**

This course will be an introduction to healthcare information technology standards including standards and regulations for documentation, and will cover health information standards. The course will also investigate soft-ware applications and enterprise architecture in health-care and public health organizations.

Fall Only.

**HIMT 490. Capstone. 3 Credits.**

This course is capstone course for both tracks of the degree program. Students are required to find an internship site that is related to healthcare and set up a semester long project from which they can gain hands-on experience in the areas of their concentration. Project set-up will be jointly done by the student, site sponsor, and the faculty of this course, whereas internship supervision will be performed by the project supervisor and the course instructor. Fall and Spring.

## History (HISTORY)

### Courses

**HISTORY 101. Foundations of Western Culture I. 3 Credits.**

Comprehensive chronological survey of major events, people, and ideas that have influenced the history, literature, art, and culture of Western Civilization. This course covers ancient civilization through the Renaissance.

Fall and Spring.

**HISTORY 102. Foundations of Western Culture II. 3 Credits.**

Comprehensive chronological survey of major events, people, and ideas that have influenced the history, literature, art, and culture of Western Civilization. This covers the Renaissance up to the present.

Fall and Spring.

**HISTORY 103. World Civilizations I. 3 Credits.**

Chronological survey of major events, people, and ideas that have influenced the history, literature, art, and culture of various world civilizations. This course covers the origins of civilization to the Age of Exploration.

Fall and Spring.

**HISTORY 104. World Civilizations II. 3 Credits.**

Chronological survey of major events, people, and ideas that have influenced the history, literature, art and culture of various world civilizations. This course covers the Age of Exploration up to the present.

Fall and Spring.

**HISTORY 205. American History to 1865. 3 Credits.**

This course explores early American and United States history through 1865, with attention to politics, society, economy, culture, and gender. Following an overview of Turtle Island (a Native designation for North America) before European contact, likely topics to be considered include the European colonization process; the creation and expansion of the United States; the evolution of formal and informal democratic institutions; Native resistance, accommodation, and persistence; the rise and fall of the institution of African slavery in the Atlantic world; early industrialization; and the causes and outcomes of the Civil War.

Fall Only.

**HISTORY 206. History of the United States from 1865 to the Present. 3 Credits.**

This course explores the history of the United States since 1865, with attention to politics, society, economy, and culture. Likely topics to be considered include: the African-American freedom struggle during Reconstruction and the Jim Crow era; the conquest of the trans-Mississippi west; industrialization and labor conflict; immigration; the expansion of American military and economic power around the world, including participation in the First World War, the Second World War, and the global Cold War; the growth of state power; urbanization and suburbanization; feminism, women's rights, civil rights, and other social movements; and the rise of conservatism since the 1970s.

Spring.

**HISTORY 207. Introduction to African-American History. 3 Credits.**

Survey of black people's experience in America, beginning with African culture through the development of Afro-American culture and institutions; includes political, social, economic and cultural history.

Fall and Spring.

**HISTORY 220. American Environmental History. 3 Credits.**

This course offers an introduction to environmental history - the study of the historical relationship between humans and the natural world - with a focus on North America from before European contact up to contemporary times. Likely topics to be considered include: First Nations' relationships with nature and land use patterns prior to European contact; the massive environmental changes that came with the arrival of European colonizers; changing ideas about the proper relationships between humans and nature; and major developments in resource use and management, including the rise of the modern environmental movement in the late 20th century and contemporary environmental problems and challenges.

Spring.

**HISTORY 251. Modern Asian Civilization. 3 Credits.**

History and civilization of East, Southeast and South Asian since the end of the 18th century, emphasizing China and Japan and the social, political, economic and cultural changes resulting from contact with the West. P: None. OC.

**HISTORY 290. The Craft of History. 3 Credits.**

This course introduces students to the various ways in which historians think, debate, and write about the past.

P: None REC: One or more lower-level History courses, such as 101, 102, 103, 104, 205, 206, 207, and/or 220

Fall and Spring.

**HISTORY 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**HISTORY 301. The Middle Ages. 3 Credits.**

Examines Western European history from the late Roman Empire to the Renaissance. Focuses on primary sources and the writings of medieval historians.

P: Hum Stud 101 or 201.

Fall Odd.

**HISTORY 302. Problems in American Thought. 3 Credits.**

Selected themes and topics in the history of American thought and culture from the 17th century to the present. May be repeated for credit when different content is offered.

P: jr st.

Fall Only.

**HISTORY 309. United States Immigration History. 3 Credits.**

This course surveys American Immigration History with a special focus on ethnic and race relations. It emphasizes social issues relating to immigration, immigration laws, and multiculturalism.

P: History 205 and 206.

Spring.

**HISTORY 310. American Colonial History. 3 Credits.**

History of North America from the sixteenth century through the late eighteenth century, with an emphasis on interactions among American Indians, Europeans, and Africans, and attention to society, politics, economy, and culture.

P: none; REC: jr st.

Spring Odd.

**HISTORY 311. History of Wisconsin. 3 Credits.**

Wisconsin history from European exploration to the present; development of Wisconsin as part of the international Great Lakes region and the United States; political, economic and cultural history of the region, territory and state.

P: none; REC: jr st.

Spring Even.

**HISTORY 312. The Early American Republic. 3 Credits.**

This course focuses on the political, economic, social, and religious development of the early U.S., from the American revolution to the war with Mexico.

P: Jr st; REC: History 205

Spring Even.

**HISTORY 322. Economic and Business History of the U.S.. 3 Credits.**

Development of a corporate economy and the rise of government intervention; industrial, financial, agricultural and labor reorganizations; wage and price policies and their relationship to these general themes; modernization and urbanization and the relationship between the domestic and world economy.

P: none; REC: jr st.

Fall Even.

**HISTORY 330. Early Modern Europe. 3 Credits.**

This course examines key religious and political narratives as well as major social and cultural phenomena in Europe c.1500-1750. Topics include religious reform, popular culture, pan-European conflict, sexuality and the family, and the rise of the absolutist state.

Spring Odd.

**HISTORY 332. Europe in the 19th Century. 3 Credits.**

Europe in the 19th-century surveys of European history during the 19th century. We will consider the political, economic, social, and cultural developments that occurred in Europe during this time and discuss such topics as revolution, Napoleon Bonaparte, industrialization, liberalism, socialism, nationalism, Romanticism, political and social reform, 1848, Realism, national unification, imperialism, urbanization, modernism, and the road to World War I.

P: None; REC: jr. st.  
Fall Odd.

**HISTORY 333. Europe in the 20th Century. 3 Credits.**

Europe in the 20th-century surveys European history from 1900 until 1999. We will consider the political, economic, social, and cultural developments that occurred in Europe during this time and discuss such topics as World War I, the Russian Revolution, modernism, facism, communism, world War II, the Holocaust, the Cold War, decolonization, the welfare state, 1968, 1989, and the European Union.

REC: jr st.  
Spring Even.

**HISTORY 337. The Rise of Islamic Civilization to 1800. 3 Credits.**

Examines the origins of Islam and Islamic civilization and its dispersion throughout Eurasia from 600 to 1800 AD.

P: Hum Stud/History 101 or Hum Stud/History 103, So standing.  
Fall Even.

**HISTORY 340. Topics in African American History. 3 Credits.**

Each semester of the course will explore a significant topic in African American history such as the civil rights movements, Black nationalism, the African American family, alienation, and affirmation.

P: History 207  
Fall Only.

**HISTORY 353. The U.S. and the World. 3 Credits.**

This course will explore the United States' interactions with the larger world, including its experiments with imperialism, interventionism, and multilateralism, from 1898 to the present. Through our study of both United States foreign policy and the engagement of Americans with global and transnational issues such as the spread of democracy, free trade, peace, human rights, and environmentalism, we will critical gain insights into the democratic ideals of the United States and their implications for the larger global community.

P: History 206 or Pol Sci 100 or Pol sci 101.  
Spring Even.

**HISTORY 354. History of Modern East Asia. 3 Credits.**

Modern East Asian history since the late nineteenth century, including China, Korea, Japan, and Vietnam. The course examines political, social, and cultural changes in the region and emphasizes the East Asian response to encounters with the West.

P: none; REC: jr st.  
Spring Odd.

**HISTORY 356. History of Modern Africa. 3 Credits.**

This course explores the history of modern Africa from 1850 to the present, concentrating on the major political issues faced by the various peoples of Africa from European colonialism onward. We will discuss the development of European colonization, the gradual integration of Africa into the global community, the struggle for liberation, the Cold War in Africa, and modern challenges of post-colonial Africa including civil war, genocide, HIV/AIDS, poverty, and the consequences of colonization.

P: none; REC: jr st.  
Spring Even.

**HISTORY 358. Political History of Modern Latin America. 3 Credits.**

This course adopts a comparative historical approach to the study of modern Latin American politics and society in the twentieth century. The main themes concentrate on the origins of repressive dictatorships, indigenous resistance, revolutionary movements, United States intervention, and the challenge of democracy.

P: none; REC: jr st.  
Fall Only.

**HISTORY 360. Ancient Greece. 3 Credits.**

This course traces the development of Ancient Greek civilization from its origins in the Ancient Near East until its conquests by Rome. Includes social, political, intellectual, economic, and cultural history.

P: none; REC: Hum Stud 101.  
Fall Odd.

**HISTORY 361. Ancient Rome. 3 Credits.**

This course traces the development of Roman civilization from its Etruscan origins through Late Antiquity. Includes social, political, intellectual, economic, and cultural history.

P: none; REC: Hum Stud 101.  
Spring Even.

**HISTORY 365. U.S. Labor and the Working Class: Past and Present. 3 Credits.**

This course introduces students to the major themes around the history of American working men and women in the nineteenth, twentieth, and twenty-first centuries. The course examines the social and political place of working people as well as cultural practices and how they impacted workers' political consciousness.

Spring.

**HISTORY 370. History of Sexuality in the U.S.. 3 Credits.**

Historical introduction to sexual behaviors and attitudes in the U.S. from the period of colonization to the present. Includes analyses of the impact of economic, racial, gender, political, and technological change on sexual norms and behaviors.

P: DJS/WOST 241 or History 205 or 206

Spring.

**HISTORY 380. U.S. Women's History. 3 Credits.**

In this course our goal is a richer understanding of women's experiences in the past, ranging from pregnancy and single motherhood to women's struggles to win the right to vote. Through lectures, discussions and films we will explore a variety of women's lives, consider the ways studying women changes our historical perspectives and focus on how interpretations of the past influence our understanding of current social issues.

P: none; REC: jr st and one cse in U.S. history, U.S. lit or Women's Studies.

Fall Only.

**HISTORY 402. America in the Twentieth Century. 3 Credits.**

Examines the history of the United States during the Twentieth Century, emphasizing social, political, and economic themes and issues.

P: none; REC: jr st.

Spring.

**HISTORY 420. Topics in Ancient History. 3 Credits.**

Variable content. Course will explore a topic, issue, problem or controversy in ancient history such as the ancient economy, Augustus, or daily life in the Roman world. Emphasis on primary sources.

P: none; REC: Hum Stud 101.

Spring Odd.

**HISTORY 421. Topics in Medieval History. 3 Credits.**

Examines themes of the Medieval world, such as the Viking Diaspora, Medieval Russia, the Silk Road, and the Byzantine Empire.

P: Hum Stud 101.

**HISTORY 422. Topics in Early Modern European History. 3 Credits.**

The course will explore current topics and themes with European history between the sixteenth and eighteenth centuries. Possible topics include the witch persecutions, crime and punishment, British history and the history of society and gender.

P: Hum Stud 101 or 102; jr st.

Spring.

**HISTORY 423. Topics in Modern European History. 3 Credits.**

This course will examine selected topics in European history since 1789. Sample topics might include the French Revolution, the Bourgeoisie, Existentialism, the World Wars, Nazi Germany, Youth, or Popular Culture.

P: jr st. REC: Hum Stud 102.

**HISTORY 450. War and Civilization. 3 Credits.**

Examination of key aspects and debates concerning the nature and role of warfare in society over a broad range of cultures and time periods.

P: jr st. REC: Hum Stud 101 and 102.

Fall Even.

**HISTORY 470. Studies in Comparative History. 3 Credits.**

Selected themes and topics in comparative history crossing geographic and temporal boundaries. Possible topics include empires, nomadic societies, the Silk Road, slavery, the Atlantic World, democracy, modern Germany and Japan, and revolutions.

P: jr st.

**HISTORY 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**HISTORY 480. Seminar in History. 3 Credits.**

Theoretical and practical topics and problems such as research techniques, source materials, comparative studies, analysis and interpretation, and the writing of historical inquiries.

P: History 290 and junior status

Fall and Spring.

**HISTORY 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**HISTORY 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**HISTORY 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Hmong (HMONG)

### Courses

**HMONG 101. Introduction to the Hmong Language I. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Hmong.

Fall Only.

**HMONG 102. Introduction to Hmong Language II. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Hmong.

P: Hmong 101

Spring.

**HMONG 200. Introduction to Hmong Culture. 3 Credits.**

Introduction to Hmong culture, including history, traditions, and religion. The course is structured around presentations by individuals from the Hmong community, field experiences in the local community, and presentations of student papers.

P: None REC: Soc 100 or Anthro 100 or Ur Re St 100

Fall Only.

**HMONG 250. Hmong Community Research. 3 Credits.**

Individual and group research projects focusing on the Hmong community. Review of early research in Hmong Studies, development of research skills in qualitative and quantitative methods, writing and presentation of research results.

P: None REC: Soc 100 or Anthro 100 or Hmong 100 or Ur Re St 100

Fall and Spring.

**HMONG 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: None REC: Sociol 100 or Anthro 100 or Hmong 200 or Ur Re St 100.

Fall and Spring.

**HMONG 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

**HMONG 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

## Human Biology (HUM BIOL)



## Courses

### **HUM BIOL 101. Introduction to Becoming a Scientist. 1 Credit.**

Learn about the challenges and rewards of a science major. Acquire essential professional skills using electronic databases and spread sheets that are needed by science majors. Learn about current science and the culture of scientists.

P: Fr or So status only.

Fall and Spring.

### **HUM BIOL 102. Introduction to Human Biology. 3 Credits.**

Basic concepts, principles, and processes in human biology; the origin of life, evolution, cells, biochemical processes, physiological systems, genetics and metabolism.

Fall and Spring.

### **HUM BIOL 116. First Aid and Emergency Care Procedures. 3 Credits.**

Student will learn all aspects of first aid training such as victim assessment and treating all types of illnesses and injuries; all skills for Professional Rescuer CPR; dealing with infectious diseases and their transmission.

Fall and Spring.

### **HUM BIOL 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

### **HUM BIOL 202. Ethnic Minorities in Science. 3 Credits.**

The history and culture of science in the US will be examined, in order to understand what has led to the current under-representation of ethnic minorities in science. The often overlooked contributions of scientists who are members of ethnic minorities will be recognized.

Spring.

### **HUM BIOL 204. Anatomy and Physiology. 5 Credits.**

This lecture and laboratory course examines the fundamental structure and function of tissues, organs, and systems of the human body.

P: Biology 201/202 with at least a C grade; AND Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall and Spring.

### **HUM BIOL 205. Biotechnology and Human Values. 3 Credits.**

Examination of technological developments in biology and medicine, including genetic, behavioral, and organism modification and the moral and ethical concerns raised by such technologies.

P: Hum Biol 102 or Biology 201/202.

Fall and Spring.

### **HUM BIOL 206. Fertility, Reproduction, and Family Planning. 3 Credits.**

Factors that influence reproduction and fertility, i.e., physiological, psychological, social, cultural, and ethical; the methods available for limiting or increasing reproduction; the nature of family planning programs.

P: Hum Biol 102 or Biology 201/202.

Fall and Spring.

### **HUM BIOL 207. Laboratory Safety. 1 Credit.**

This course examines safety within the science laboratory with emphasis on practical application. Topics include current safety regulations, identification of hazards, chemical labeling and storage, waste management, personal protective equipment, ventilation, spill response, and biosafety.

P: Biology 201 or 203 or Chem 108, 211 or 212 or Hum Biol 204 or conc enr.

Fall and Spring.

### **HUM BIOL 208. Scientific Conditioning of the Athlete. 2 Credits.**

Interrelationships between growth and development and athletic participation by pre-adolescents, principles of physiology of exercise, and general and specific techniques of physical and psychological conditioning are studied.

P: Hum Biol 102 with a grade of C or better OR Biology 201/202 with a grade of C or better.

Fall and Spring.

### **HUM BIOL 210. Prevention and Treatment of Athletic Injuries. 3 Credits.**

Prevention, physical conditioning, strapping, properly fitted and designed equipment, condition of the competition site, conduct of practices, and respect of existing injuries; estimation the nature an extent of the injury, feasibility of moving the victim, immediate care at the scene, modes of required transport, sideline care, training room modalities, referral for definite diagnosis, and treatment of simple follow-up rehabilitation.

P: Hum Biol 102 with a grade of C or better OR Biology 201/202 with a grade of C or better.

Fall and Spring.

### **HUM BIOL 217. Human Disease and Society. 3 Credits.**

Impact of diseases in humans. Emphasizes the major diseases, their causes, individual effects, historical significance, and methods of control.

Fall and Spring.

### **HUM BIOL 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**HUM BIOL 310. Human Genetics. 3 Credits.**

The molecular basis of heredity, genetic diseases, and genetic technologies including cloning, genetic testing, and gene therapy will be evaluated.

P: Biology 201/202 with at least a C grade ; Chem 108 or 212 with at least a C grade.

Fall and Spring.

**HUM BIOL 324. The Biology of Women. 3 Credits.**

This course will examine the physiology of the adult female body and will address health issues that are unique to or different in women. Emphasis will be placed on the effects of female sex hormones on multiple processes (reproductive, nervous, endocrine, and cardiovascular) in the body.

P: Hum Biol 102 with at least a C grade or Biology 201/202 with at least a C grade.

Spring.

**HUM BIOL 331. Science and Religion: Spirit of Inquiry. 3 Credits.**

This course examines the differing world views of science and religion; origins of science in the Judeo-Christian West; sources of conflicts; domains of validity; and of limitations of science and religion. This course may not be used as upper-level elective credits for a Human Biology major or minor.

P: Hum Biol 102 with at least a C grade or Biology 201/202 with at least a C grade; and sophomore status

Spring.

**HUM BIOL 333. Principles of Sports Physiology. 3 Credits.**

This course emphasizes the applied aspects of (exercise) physiology. Major topics include energy systems used during exercise, physiological dimensions of athletic performance/fatigue, principles of training, gender and exercise, ergogenic aids, and exercise in various environmental conditions.

P: Hum Biol 204 with at least a C grade; OR Biology 201/202 with at least a C grade; OR Biology 203/204 with at least a C grade

Spring.

**HUM BIOL 341. Human Anatomy Laboratory. 1 Credit.**

This course involves learning human anatomy and human anatomy dissection techniques using cadavers through the process of dissecting and analyzing human cadaver specimens. Students will learn detailed human anatomy for a specific area of interest by dissecting and identifying anatomical components of that area. In addition, students will learn major significant human anatomy for the entire human body to include muscles, nerves, blood vessels, glands, GI tract and reproductive systems.

P: Hum Bio 204 AND approval by instructor REC: Hum Bio 351, Bio 340

Fall Only.

**HUM BIOL 351. Kinesiology. 4 Credits.**

This course provides an in depth study of the human musculoskeletal system as it pertains to movement of the body and/or its parts. There are three major components to this course - anatomy (detailed musculoskeletal anatomy), functional anatomy (understanding bodily movement in light of anatomical structure), and biomechanics (mathematical quantification of bodily movement, forces, etc.)

P: Declared major or minor in Human Biology AND Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall and Spring.

**HUM BIOL 360. Exercise Physiology. 3 Credits.**

In this course, students learn the ventilatory, cardiovascular, muscular, hormonal, and metabolic response to (acute) exercise and exercise training.

P: Declared major or minor in Human Biology AND Math 260 AND Hum Biol 204, and concurrent enrollment in Hum Biol 361.

Fall and Spring.

**HUM BIOL 361. Human Physiology Lab - Exercise and Metabolism. 1 Credit.**

The laboratory involves measurement, analysis, and interpretation of a variety of physiological parameters that are associated with physical exercise. Students will do experiments designed to assess exercise related changes in heart rate, blood pressure, ventilation, and oxygen consumption.

Additionally, students will do assessments on EKG, pulmonary function, body composition and maximal exercise capacity.

P: concurrent enrollment in Hum Biol 360.

Fall and Spring.

**HUM BIOL 401. Art and Science. 1 Credit.**

Examination of art and science as ways of knowing, including discussion of various points of view regarding the differences and similarities between the two.

P: Hum Biol 102 or Biology 201/202 or Biology 203/204

Spring.

**HUM BIOL 402. Human Physiology. 3 Credits.**

This course examines the physiologic functions of the major human organ systems. Topics include cell physiology; muscle, nervous, respiratory, circulatory, excretory, digestive, immune, and reproductive system functions; hormonal regulation pathways; and the role of physiology in diseases and medicine.

P: Hum Biol 204 with at least a C grade; OR Biology 201/202 with at least a C grade and Biology 203/204 with at least a C grade; OR transfer cse Biology 002; AND Chem 108 with at least a C grade or 212 with at least a C grade.

Fall and Spring.

**HUM BIOL 403. Human Physiology Laboratory. 1 Credit.**

This course examines fundamental physiologic principles in a laboratory setting. Topics will include histology; muscle and nerve functions; respiratory and cardiac functions; and urinary system function. Students will gain experience in the process of designing, evaluating and presenting experimental results and develop skills in the reading of scientific literature.

P: Declared major or minor in Hum Biology; AND Hum Biol 402 with at least a C grade or conc enr or Biology 346 with at least a C grade or conc enr; AND Math 260; AND Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Spring.

**HUM BIOL 405. Biotechnology and Ethics. 3 Credits.**

Examination of the science and ethics of biotechnology including genomics, eugenics, recombinant DNA technology, reproductive technology, stem cells, drugs, modified organisms, and treatment of diseases.

P: none; REC: Hum Biol 102 or Biology 201/202.

Fall and Spring.

**HUM BIOL 413. Neurobiology. 3 Credits.**

This course will cover the physiological and molecular mechanisms of nervous system function. Topics include neuroanatomy; development and differentiation of neuronal cells; chemical and electrical functions; synaptic pharmacology; sensory receptors; learning and memory; and various disease states and medical treatments.

P: Biology 303 with at least a C grade; and Hum Biol 402 with at least a C grade or Biology 346 with at least a C grade.

Fall Only.

**HUM BIOL 422. Immunology. 3 Credits.**

This course examines the mechanisms of vertebrate, particularly human defense against microbial invasion and cancer.

P: Biology 302 with at least a C grade or 307 with at least a C grade; Chem 212 with at least a C grade; and Math 260 with at least a C grade

Spring Odd.

**HUM BIOL 423. Immunology Lab. 1 Credit.**

This laboratory course examines the mechanisms of innate and acquired immunity.

P: Hum Biol 422 or conc enr AND Env Sci 207 or conc enr of Hum Biol 207 or conc enr.

Spring Odd.

**HUM BIOL 426. Cancer Biology. 3 Credits.**

This course examines the genetic changes and molecular events that lead to abnormal cell growth and cancer. Topics covered include oncogenes, tumor suppressor genes, angiogenesis, invasion and metastasis, cancer stem cells, therapeutic approaches for cancer treatment, and cancer prevention.

P: Hum Biol 310 or Biology 303 with at least a C grade

Spring Even.

**HUM BIOL 427. Cancer Biology Laboratory. 1 Credit.**

In this inquiry-based laboratory course, students will use molecular and cellular techniques to conduct research projects that examine the hallmark characteristics of cancer cells.

P: Hum Biol 426 or concurrent enrollment

Spring Even.

**HUM BIOL 444. Endocrinology. 3 Credits.**

This course examines the major endocrine organs of the body and the processes that are controlled / integrated by hormones. Clinical examples of endocrine disease (e.g. diabetes, Graves disease) will be considered from the viewpoint of the insight they give to the understanding of endocrine physiology.

P: Hum Biol 402 with a C grade or better.

Spring.

**HUM BIOL 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**HUM BIOL 495. Research in Human Biology. 1-5 Credits.**

Work closely with a faculty member to plan, perform, evaluate, and report on laboratory research in human biology or a related field.

P: Hum Biol 207 or Env Sci 207 and approval by faculty mentor.

Fall and Spring.

**HUM BIOL 497. Internship. 1-16 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**HUM BIOL 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**HUM BIOL 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Human Development (HUM DEV)

### Courses

**HUM DEV 102. Introduction to Human Development. 3 Credits.**

Human development from conception through death: physical development, social and emotional development, personality development, the development of language, intellectual development and creativity, and the process of human learning.

Fall and Spring.

**HUM DEV 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**HUM DEV 225. Career Planning. 1 Credit.**

Provides students with the knowledge and resources necessary for effective career decision-making in college. The class sessions and assignments focus on self-assessment, learning and applying career development theories, exploring major and career options, and establishing goals for career/life planning.

Fall and Spring.

**HUM DEV 283B. Phoenix GPS Program Fall Workshop. 1 Credit.**

This course serves as a weekly workshop for GPS sections of First Year Seminars. Each week GPS students will learn from expert faculty and staff how to be successful in and get the most out of college (like how to take good notes, study for college-level courses and effectively manage your stress) and get information on many of the opportunities at UW-Green Bay (like study abroad, performing arts, and getting involved in campus organizations). Students will also have the opportunity to practice the skills they're learning in lab, develop plans for how to effectively utilize this information in their college work, and reflect on how they plan to utilize the information and skills to maximize college and personal success.

**HUM DEV 283C. Phoenix GPS Program Spring Seminar. 1 Credit.**

In this course students who participated in a fall Phoenix GPS Program First Year Seminar will have the opportunity to work with their Phoenix GPS team on a service learning project and career and personal development exercises.

P: HUM DEV 283B

Spring.

**HUM DEV 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**HUM DEV 302. Developmental Research Methods. 4 Credits.**

A survey of research methods used by developmental researchers.

P: Hum Dev 102; Comm Sci 205 or Math 260 or Bus Adm 216

Fall and Spring.

**HUM DEV 331. Infancy and Early Childhood. 3 Credits.**

Current theories, methods of study and research in the study of human development from conception through the early childhood years, and the interrelationships among biological, social, and psychological aspects of development.

P: Hum Dev 102 or Psych 102; REC: Hum Dev 302

Fall and Spring.

**HUM DEV 332. Middle Childhood and Adolescence. 3 Credits.**

Individual development from the elementary school years through adolescence: socio-cultural, psychological and physical growth factors in the developmental process of the older child and adolescent. Stresses interpretation of behavior from the perspectives of such theorists as Erikson and Piaget.

P: Hum Dev 102 or Psych 102; REC: Hum Dev 331 or equiv.

Fall and Spring.

**HUM DEV 336. Gender Development Across the Lifespan. 3 Credits.**

An interdisciplinary analysis of changes in biological, social, and identity development for males and females throughout the life span.

P: Hum Dev 102 or Soc C D 241. REC: Comm Sci 301.

Fall and Spring.

**HUM DEV 342. Cross Cultural Human Development. 3 Credits.**

Cultural differences in perception, cognition, language and thought, child development, child rearing, and personality; relationships between various aspects of culture and psychological functioning within non-Western cultures and American ethnic subcultures.

P: Hum Dev 102 or Anthro 100; REC: soc sci cse.

Fall and Spring.

**HUM DEV 343. Adulthood and Aging. 3 Credits.**

Theory and empirical research concerning developmental processes across the adult life span; psychological, cultural and biological factors which influence development in young adulthood, middle adulthood and old age.

P: Hum Dev 102 or Psych 102; REC: Hum Dev 331 and 332.

Fall and Spring.

**HUM DEV 344. Dying, Death, and Loss. 3 Credits.**

Death, dying, and loss from a multidisciplinary diversity perspective; the development of death concepts across the life span, end of life issues, and cross-cultural death practices and their relation to the American death system.

P: Hum Dev 102.

Spring.

**HUM DEV 345. Human Sexuality. 3 Credits.**

This course is an introduction to the major psychological, biological, and sociocultural models of human sexuality, with an emphasis on sexual identity development throughout childhood, adolescence, adulthood, and aging.

P: Hum Dev 102; REC: Hum Biol 102.

Fall and Spring.

**HUM DEV 346. Culture, Development and Health. 3 Credits.**

The course will focus on different cultural groups in the U.S. providing a brief multicultural history with an overview of the major religious worldviews before examining how development and approaches to health and well-being vary across cultures.

P: Hum Dev 102.

Fall Only.

**HUM DEV 350. Developmental Psychobiology. 3 Credits.**

New brains, young minds, and early behaviors will be explored using animal and human models.

P: Hum Dev 102; and Hum Biol 102 or Biol 202.

Fall Only.

**HUM DEV 353. Family Development. 3 Credits.**

An overview of the study of the American family from a developmental perspective, with particular emphasis on family members' life cycle changes.

P: Hum Dev 102 or Sociol 202.

Fall and Spring.

**HUM DEV 370. Personal Relationships. 3 Credits.**

This course will examine research and theory on the development and processes of romantic relationships, including: attraction, commitment, sexuality, relationship maintenance and dissolution. Students will read primary sources on cutting-edge research in the field, such as: the role of biochemistry in attraction, the impact of personal relationships on health, and the effectiveness of relationship education programs.

P: Hum Dev 102 REC: Hum Dev 302 or Comm Sci 301 or Psych 300

Spring.

**HUM DEV 424. The Development of Creative and Critical Thinking. 3 Credits.**

Explores the definitions and assessment of creative thinking across the lifespan and provides the opportunity to discuss controversial issues in the field and to practice techniques for facilitating thought.

P: Hum Dev 102; and jr st or upper lev Hum Dev/Psych cse.

Fall Only.

**HUM DEV 443. Spirituality and Development. 3 Credits.**

This course in Human Development will explore how spirituality, religion, and faith may represent important aspects of development across the lifespan. Important questions to address include the following: How may 'spirituality' be defined? Is aging a form of spiritual development? Discussion of theoretical, research, and practice applications.

REC: Hum Dev 102, Hum Dev 343.

**HUM DEV 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**HUM DEV 495. Teaching Assistantship. 1-6 Credits.**

Students will learn the different components related to successful instruction. This will include theoretical perspective, empirical research, and pedagogical techniques relating to teaching that they can apply to a broad array of future teaching and learning experiences.

P: Hum Dev 102, 3.0 GPA in Human Dev and consent of inst; REC: sr st.

Fall and Spring.

**HUM DEV 496. Research Assistantship. 1-6 Credits.**

Students will assist faculty in conducting research. Responsibilities may include literature reviews, library investigations, questionnaire development, recruitment and interviewing of research participants, data collection, management of research studies, data entry, and some statistical analyses.

P: Hum Dev 102. REC: Comm Sci 301.

Fall and Spring.

**HUM DEV 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st and gpa > or = 3.00.

Fall and Spring.

**HUM DEV 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**HUM DEV 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Humanistic Studies (HUM STUD)

### Courses

**HUM STUD 101. Foundations of Western Culture I. 3 Credits.**

Comprehensive chronological survey of major events, people, and ideas that have influenced the history, literature, art, and culture of Western Civilization. This course covers ancient civilization through the Renaissance.

Fall and Spring.

**HUM STUD 102. Foundations of Western Culture II. 3 Credits.**

Comprehensive chronological survey of major events, people, and ideas that have influenced the history, literature, art, and culture of Western Civilization. This covers the Renaissance up to the present.

Fall and Spring.

**HUM STUD 103. World Civilizations I. 3 Credits.**

Chronological survey of major events, people, and ideas that have influenced the history, literature, art, and culture of various world civilizations. This course covers the origins of civilization to the Age of Exploration.

Fall and Spring.

**HUM STUD 104. World Civilizations II. 3 Credits.**

Chronological survey of major events, people, and ideas that have influenced the history, literature, art and culture of various world civilizations. This course covers the Age of Exploration up to the present.

Fall and Spring.

**HUM STUD 160. Introduction to Language. 3 Credits.**

Study of language and linguistics, including basic principles and methods in structural linguistics, social and regional variation in language, historical change and introductory study of meaning.

Spring.

**HUM STUD 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**HUM STUD 201. Introduction to the Humanities I. 3 Credits.**

Major methods and ideas of the western humanities, examined in selected works of literature, philosophy and fine arts, from Classical world through Renaissance.

Fall and Spring.

**HUM STUD 202. Introduction to the Humanities II. 3 Credits.**

Major methods and ideas of the western humanities, examined in selected works of literature, philosophy and fine arts, from Baroque through the Modern Period.

Fall and Spring.

**HUM STUD 213. Ethnic Diversity and Human Values. 3 Credits.**

This course will explore some of the most fundamental questions of human values and meaning by studying the rich literature, history, and culture of one or more of the following groups of the United States: African American, American Indian, Asian American, and Latino.

Fall and Spring.

**HUM STUD 220. ESL: Listening and Speaking Across Cultures. 3-6 Credits.**

Global and discrete listening and speaking skills for ESL students based on content in intercultural communication. Emphasis on note-taking, listening for main ideas and key details, organizing and delivering speeches, and participating effectively in debates and small and large group discussions.

P: International student status or permission of instructor.

Fall Only.

**HUM STUD 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**HUM STUD 318. Topics in Linguistics/TESL. 3 Credits.**

Analysis and discussion of topics of central importance in applied linguistics and Teaching English as a Second Language (TESL). Possible topics include: Teaching Grammar to ELLs; Second Language Pragmatics; Second Language Writing; and others.

**HUM STUD 319. Second Language Acquisition. 3 Credits.**

Overview of issues in second-language acquisition, including linguistic, cognitive, social, and affective factors. Students will examine and think about learner language, read research on learner language, and consider implications for second-language teaching.

Rec: Hum Stud 160.

Spring.

**HUM STUD 320. Second Language Assessment. 3 Credits.**

An exploration of policies, procedures, and instruments in assessing English language proficiency. Focus will be on practical assessment strategies and their incorporation into instructional planning.

P: Hum Stud 160 or Educ 311 or 315.

Spring Odd.

**HUM STUD 321. Language and Society. 3 Credits.**

The study of language in relation to society, including social and regional dialects, bilingualism and language contact, speech communities, the ethnography of language, and applications such as language policy and planning.

P: None. REC: Hum Stud 160.

Fall Only.

**HUM STUD 323. The Hebrew Bible (Old Testament). 3 Credits.**

Interdisciplinary study of the Hebrew Bible (also called the Old Testament), read and discussed in English.

P: none; REC: jr st.

Fall Even.

**HUM STUD 324. The New Testament. 3 Credits.**

The origins of the Christian tradition as reflected in the primary texts of that tradition in the New Testament: The major divisions of the writings of the New Testament, the life of Jesus as recorded in the gospels, the importance of St. Paul and the apocalyptic writings of St. John.

P: none; REC: jr st.

Spring Odd.

**HUM STUD 326. Non-Western Religions. 3 Credits.**

The two major religions of the East, Hinduism and Buddhism: the richness, variety and flexibility of the faith and practice of Hinduism, with its belief in a multiplicity of gods and goddesses; and the various sects and schools of Buddhism--Theravadic, Mahayana, Zen and Tantric.

P: none; REC: jr st.

Spring Even.

**HUM STUD 327. Religion and the Social Order. 3 Credits.**

This course considers sociological, class, and economic analyses of religion. Exploring how these approaches challenge religious belief, it also examines how modern religious thinkers respond to this challenge.

P: jr st; REC: Hum Stud 201 and 202

Spring Even.

**HUM STUD 333. Utopia and Anti-utopia. 3 Credits.**

The origins, history, and philosophical and political significance of utopian thought in Western culture; the development of major utopian ideals from Plato to the present. P: None.

**HUM STUD 334. Perspectives on Human Values: The Classical World. 3 Credits.**

Focuses on the values of the world of classical Greece and Rome as reflected in its texts and fine arts.

P: jr st.

Fall Only.

**HUM STUD 335. Perspectives on Human Values: The Medieval World. 3 Credits.**

Focuses on the history, society, culture and values of the middle ages as reflected in its literature and fine arts.

P: jr st.

Spring.

**HUM STUD 336. Perspectives on Human Values: The Renaissance. 3 Credits.**

Explores human values as they appear in texts and fine arts in the 15th and 16th century European Renaissance.

P: jr st.

Fall Only.

**HUM STUD 337. Perspectives on Human Values: The Age of Reason. 3 Credits.**

Immerses in the ideas that fueled the enlightenment era in seventeenth and eighteenth century Europe. Focuses specifically on political turmoil amidst radical thinking, the revolution in the conduct of science, and the impact of these changes on the social world.

P: jr st.

Spring.

**HUM STUD 340. Science Fiction & Fantasy. 3 Credits.**

Interdisciplinary study of fantasy, horror, science fiction, speculative fiction, or other forms of cognitive estrangement. Topics may include 19th-century Science Fiction, Cyborg Culture, Postcolonial Science Fiction, Gothic Horror, Fantasy, Politics in Science Fiction, Gender in Science Fiction among others.

Spring.

**HUM STUD 341. Science Fiction Film. 3 Credits.**

Interdisciplinary study of science fiction, fantasy, and horror in film.

Fall Only.

**HUM STUD 350. Interdisciplinary Study of Great Works. 1-3 Credits.**

Interdisciplinary study of one or more works central to the Humanistic tradition. Variable content.

P: jr st.

Fall and Spring.

**HUM STUD 351. Interdisciplinary Themes in Humanistic Studies. 3 Credits.**

Interdisciplinary examination of a single important theme in the Humanities. Variable content.

P: jr st.

Spring.

**HUM STUD 352. Literatures in Translation. 3 Credits.**

A study of selected works of literatures in translation. A variable content course.

P: jr st.

**HUM STUD 356. German Culture. 3 Credits.**

The culture of the German-speaking world from the earliest periods to the present with a focus on how contemporary Germany has been shaped by issues of history, religion, art, music, philosophy, and commerce.

Fall Odd.

**HUM STUD 357. German Cinema. 3 Credits.**

Historical and critical introduction to the work of prominent German filmmakers and to cinematic representations of German culture.

Fall Even.

**HUM STUD 360. Globalization and Cultural Conflict. 3 Credits.**

This course examines the phenomenon of globalization and its impact on cultural identity as well as the conflicts in values and belief-systems that have arisen in its wake. We will explore the notion of a clash of civilizations and cultures with particular emphasis on the supposed clash between the West and the Islamic world.

REC: jr st

Spring Odd.

**HUM STUD 382. Perspective on Human Values: Romanticism to Modernism. 3 Credits.**

Studies the challenge to tradition and reason and the response to that challenge from the development of romanticism in the late 18th century to the flowering of modernism in the early twentieth century.

P: Hum Stud 102 or 202; REC: jr st.

Fall Only.



**HUM STUD 383. Perspectives on Human Values: The Contemporary World. 3 Credits.**

A study of values shaping the contemporary world through reflection on historical, literary, philosophical, artistic, and other cultural products from the Second World War to the present.

P: Hum Stud 102 or 202; REC: jr st.

Spring.

**HUM STUD 384. Perspectives on Human Values in Other Cultures. 3 Credits.**

Study of values and worldview of a culture other than those of Western Europe and the United States.

P: none; REC: jr st.

Spring Even.

**HUM STUD 385. Perspectives on Human Values: First Nations. 3 Credits.**

Drawing upon American Indian oral traditions and Elder epistemology, this course will examine the diverse traditional, cultural, spiritual, and political values and world views of American Indian Nations.

P: FNS 225 or 226.

Spring Odd.

**HUM STUD 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**HUM STUD 480. Humanities Seminar. 3 Credits.**

A capstone seminar for humanities majors, examining basic questions and issues in the humanities. Course will emphasize student participation and a substantial term paper. Topics vary. May be repeated for credit when different topics are covered.

P: Humanistic Studies major

Fall Only.

**HUM STUD 483K. Documenting History. 3 Credits.**

A service learning course in interviewing, collecting, transcribing, compiling, and copyediting life stories and oral histories of UW-Green Bay alumni, hospice patients, and other community groups. Final projects include memory books for hospice patients, interviews for the UW-GB Library Archives, and presentations to the UW-Green Bay community. Requires both fieldwork and classroom meetings.

P: Junior standing; REC: ENG COMP 105; ENGLISH 212.

**HUM STUD 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**HUM STUD 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**HUM STUD 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Integrative Leadership Studies (ILS)

### Courses

**ILS 198. Integrative Leadership Seminar I. 3 Credits.**

In this course, students will explore principles of adult learning, apply the basics of effective communication, begin the development of critical and creative thinking, articulate the meaning and value of a major in Integrative Leadership Studies, demonstrate skill in interdisciplinary problem solving, create an electronic learning portfolio, and explore the process of earning credit for prior learning.

P: IST or BA-IST or ILS or BA-ILS major

Fall and Spring.

**ILS 300. Integrative Leadership Seminar II. 3 Credits.**

This course is designed to offer an examination of concepts and issues involved in the study and practice of leadership. We will explore leadership from a variety of perspectives within the humanities, fine arts, social sciences, and natural sciences, since integrative leaders draw upon and consider multiple perspectives to inform their decision-making. We will also identify the basic components of the research process, and research current issues/problems in leadership to meet the critical thinking learning outcome.

P: ILS 198 and Junior Status

Fall and Spring.

**ILS 400. Capstone: Synthesis and Assessment of Learning. 3 Credits.**

This course helps students synthesize the learning experienced in the Integrative Leadership Studies major, area(s) of emphasis, and core liberal studies courses. Students will demonstrate an integration of problem-solving abilities from multiple fields of study. The capstone provides a platform for discussion, reflection, and discovery about the meaning and value of an interdisciplinary education.

P: Interdisciplinary Studies major or Integrative Leadership Studies major; earned cr > or = 99

Fall and Spring.

**ILS 478. Honors in the Major. 3 Credits.**

An individual contract is developed in consultation with a faculty member who is proficient in the subject matter of the topic and the Chair of the Integrative Leadership Studies program.

**ILS 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

**ILS 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

## Information Sciences (INFO SCI)

### Courses

**INFO SCI 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**INFO SCI 201. Information, Computers and Society. 3 Credits.**

A survey of the social, legal and ethical impacts of computers on individuals and society.

Fall Only.

**INFO SCI 210. Information Problems. 3 Credits.**

An introduction to understanding and solving information problems, including: a survey of the field of information science; practice in algorithmic thinking; techniques for finding, assessing, organizing, and presenting information; and confrontation with ethical and value issues.

Spring.

**INFO SCI 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**INFO SCI 302. Introduction to Data Science. 3 Credits.**

This course provides an introduction to data science and provides an overview of useful data science tools. Topics covered will include tools, database management, retrieval and management of data, best practices for effectiveness and mitigating risk.

P: At least 18 credits in COMP SCI, INFO SCI or COMM

Spring.

**INFO SCI 308. Information Technologies. 3 Credits.**

A survey of information technologies, their operations and limitations, and how the major electronic technologies are changing and affecting both the workplace and the household.

P: at least 15 credits of supporting core courses in Communication or declared program in Information Sciences

Spring.

**INFO SCI 332. Mobile Platforms and Apps. 3 Credits.**

A complete study of the world of mobile computing. The course begins with a survey of the mobile applications business and the games marketplace. Students will collaborate to design, develop and produce one unique app of their own design. Students will also create one unique video game. Topics covered will include an in depth study of the models of mobile information, GPS services, social networking, casual gaming, networked games, business apps, and information gathering.

P: At least 18 credits in COMP SCI, INFO SCI or COMM

Fall Only.

**INFO SCI 341. Survey of Gaming and Interactive Media. 3 Credits.**

This course provides students with a thorough understanding of the history, study, of the modern video game industry and video games as a creative and communicative medium. Subjects covered in this course include the history of the industry in terms of its technological and economic development. Students will also analyze how video games have evolved and used more powerful multimedia capabilities to craft narratives and virtual worlds, and critically engage with game content to analyze games and break them down into component elements to understand what makes for good design. The course will also analyze the cultural and political impact of games from psychological effects to the debate over governmental regulation. The course will also provide students with the tools they need to succeed in a variety of professions in the video game industry, from journalism to development to public relations and beyond.

P: At least 18 credits in COMP SCI, INFO SCI or COMM

Fall Only.

**INFO SCI 342. Game Design. 3 Credits.**

This course will introduce students to the concepts and tools used in the development of modern 2-D and 3-D real-time interactive computer video games. Topics covered in this include game design concepts, graphics, parallel processing, human-computer interaction, networking, artificial intelligence, and software engineering.

P: At least 18 credits in COMP SCI, INFO SCI or COMM

Spring.

**INFO SCI 361. Introduction To Information Assurance & Security. 3 Credits.**

An exploration of the fundamentals of information assurance and security (IAS). The course will introduce the underlying concepts of IAS in context of today's society. It will explore the security & ethical issues in information and computing from the perspective of today's computing world. It will discuss the appropriate remedies and defense strategies in the wake of today's security threats and attacks. Class topics will focus on physical security, cyber security, network security and software security through lectures and hands on experiments. This course will be of interest to students, who wish to obtain an understanding of the basic principles and practices in IAS. It will cover the fundamental concepts in IAS necessary for understanding the threats to security as well as various defenses against those threats.

P: COMP SCI 371

Fall Odd.

**INFO SCI 390. Technical Writing. 3 Credits.**

Scientific and technical writing for professional and lay audiences, including news articles and features, laboratory reports, training and procedure manuals, grant and contract proposals and technical reports.

P: Eng Comp 100 or 164 or ACT English score of 25 or higher; and completion of nat sci gen educ req.

**INFO SCI 410. Advanced Information Problems. 3 Credits.**

Practice in solving information problems and documenting skills for external audiences.

P: Info Sci 210 and sr st.

Spring.

**INFO SCI 412. Data Mining and Predictive Analytics. 3 Credits.**

The course discusses data mining and introduces students to machine learning concepts used in analytics. It provides the basics of building predictive models using structured and unstructured data and clustering, association, and classification techniques. It covers predictive modeling using regression, survival analysis, artificial neural networks, support vector machines, decision trees, and genetic algorithms. The courses involves hands-on exercises with WEKA, Python, and R.

Fall Even.

**INFO SCI 430. Information, Media and Society. 3 Credits.**

The role of information in society, including interpersonal, mass, and institutional sources, in producing a range of effects on individuals, groups, and society as a whole; critical examination of the changing information environment in legal, economic, political, and social contexts.

P: at least 15 credits of core supporting courses in Communication or declared student in Information Sciences.

Spring.

**INFO SCI 440. Information and Computing Science Practicum. 3 Credits.**

A project course in which teams submit proposals to work in an information problem. Projects provide experience in leadership roles, resource allocation, scheduling, documentation, client relations, and presentation. Problems typically draw on a wider array of skills than in other individual classes.

P: sr st.

Fall and Spring.

**INFO SCI 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**INFO SCI 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**INFO SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**INFO SCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Italian (ITALIAN)

### Courses

**ITALIAN 101. Introduction to the Italian Language I. 4 Credits.**

Development in basic ability in understanding, reading, speaking and writing Italian.

Fall Only.

**ITALIAN 102. Introduction to the Italian Language II. 4 Credits.**

Development in basic ability in understanding, reading, speaking and writing Italian.

REC: 1 yr. h.s. or 1 semester of college Italian.

Spring.

## Japanese (JAPANESE)

### Courses

**JAPANESE 101. Elementary Japanese 1. 4 Credits.**

An intensive introduction to practical Japanese with an emphasis placed on the four language skills: understanding, speaking, reading and writing.

Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.

Fall Only.

**JAPANESE 102. Elementary Japanese 2. 4 Credits.**

Continuation of Japanese 101. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.

P: Japanese 101.

Spring.

**JAPANESE 203. Intermediate Japanese 1. 4 Credits.**

Short basic readings, conversations, and grammar. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.

P: Japanese 102.

Fall Only.

**JAPANESE 204. Intermediate Japanese 2. 4 Credits.**

A continuation of JAPANESE 203 with emphasis on developing facility in oral and written expression. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.

P: Japanese 203.

Spring.

**JAPANESE 305. Intermediate Reading, Conversation, and Composition. 4 Credits.**

A continuation of JAPANESE 204 with emphasis on developing facility in oral and written expression. A cultural orientation prior to a study-abroad experience Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.

P: Japanese 204.

**JAPANESE 375. Japanese Civilization. 3 Credits.**

A background of history, art and institutions as an aid to the understanding of Japanese thought in literature as well as culture and to appreciate the Japanese people. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.

P: Japanese 305 and 389.

**JAPANESE 389. Special Topic. 3 Credits.**

Topics of special interest, dealing with Japanese literature, civilization or culture. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.

P: Japanese 305.

**JAPANESE 390. Advanced Conversation, Grammar and Composition. 4 Credits.**

Emphasis on developing facility in oral expression based on literatures and cultures. Attention to phonetics, pronunciation and syntax. Development of more difficult and sophisticated patterns of expression. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.

## Mathematics (MATH)

### Courses

**MATH 94. Elementary Algebra. 3 Credits.**

Intended as a preparation for Math 101. Topics include: properties of real numbers, exponents and polynomials, simplifying variable expressions, linear equations and inequalities, factoring, graphing, and basic quadratic equations. Offered on a pass/no credit, non-degree credit basis only.

Fall and Spring.

**MATH 101. Intermediate Algebra. 3 Credits.**

Properties of the real numbers; solving linear and quadratic equations and inequalities; polynomials; fractional expressions and equations; exponents, powers and roots; systems of linear equations.

P: Math 094 or Math Placement of Math 101 or greater.

Fall and Spring.

**MATH 104. Elementary Functions: Algebra and Trigonometry. 4 Credits.**

The real number system; inequalities; functions and their inverses; exponential and logarithmic functions; trigonometric and inverse trigonometric functions; complex numbers; polynomial and rational functions; systems of equations.

P: Math 101 with at least a C grade or transfer cse Math 004 or Math Placement of Math 104 or greater.

Fall and Spring.

**MATH 201. Calculus for the Management and Social Sciences. 3 Credits.**

Basic concepts and techniques of differential and integral calculus; Applications in the fields of accounting, economics, finance and management.

P: Math 101 with at least a C grade or transfer cse Math 004 or Math Placement of Math 104 or greater.

Fall and Spring.

**MATH 202. Calculus and Analytic Geometry I. 4 Credits.**

Differential and integral calculus of the elementary functions with associated analytic geometry; transcendental functions; techniques of integration; application; sequences and series.

P: Math 104 with at least a C grade or Math Placement of Math 202 or greater.

Fall and Spring.

**MATH 203. Calculus and Analytic Geometry II. 4 Credits.**

Differential and integral calculus of the elementary functions with associated analytic geometry; transcendental functions; techniques of integration; application; sequences and series.

P: Math 202 with at least a C grade.

Fall and Spring.

**MATH 209. Multivariate Calculus. 4 Credits.**

Real-valued functions of several variables; tangent and normal lines; chain rule for partial derivatives; extrema; least squares method; higher-ordered derivatives; integration; polar and cylindrical coordinates; spherical coordinates; vector fields; line integrals; physical applications.

P: Math 203 with at least a C grade.

Fall and Spring.

**MATH 260. Introductory Statistics. 4 Credits.**

Descriptive and inferential statistics; frequency distributions; graphical techniques; measure of central tendency and of dispersion; probability regression correlation, analysis of count data, analysis of variance. Credit will not be granted for both Math 260 and (Bus Adm 215, 216, or 217).

P: Math 101 with at least a C grade or Math Placement of Math 101/260 or greater. Credit will not be granted for both Math 260 and (Bus Adm 215, 216, or 217).

Fall and Spring.

**MATH 281. Conceptual Foundations of Elementary Mathematics I. 3 Credits.**

Foundations of mathematics, particularly those concepts common to the mathematics curriculum of elementary schools. Explores the processes of abstraction, symbolic representation, notational manipulation and modeling in all arithmetic contexts; examines non-arithmetic topics such as geometry, probability, statistics, algebra, and programming concepts.

Fall and Spring.

**MATH 282. Conceptual Foundations of Elementary Mathematics II. 3 Credits.**

Foundations of mathematics, particularly those concepts common to the mathematics curriculum of elementary schools. Explores the processes of abstraction, symbolic representation, notational manipulation and modeling in all arithmetic contexts; examines non-arithmetic topics such as geometry, probability, statistics, algebra, and programming concepts. May not be taken on a pass/no credit basis.

P: MATH 281; may be taken concurrently

Fall and Spring.

**MATH 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**MATH 305. Ordinary Differential Equations. 3 Credits.**

Solutions and applications of first and higher order linear differential equations; the meanings of existence and uniqueness theorems; nonlinear differential equations; modeling physical and biological systems.

P: Math 203 with at least a C grade.

Spring.

**MATH 314. Proofs in Number Theory and Topology. 3 Credits.**

This course deals with the construction of detailed proofs of mathematical theorems within the context of the fertile fields of Number Theory and Topology.

P: Math 202 with at least a C grade; REC: Math 203.

Spring.

**MATH 320. Linear Algebra I. 3 Credits.**

Matrices and vector space concepts. Systems of linear equations, matrices, determinants, vectors in two-and three-space, vector spaces, linear transformations, eigenvalues, and eigenvectors; positive-definite matrices, normal forms, the principal axis theorem, applications.

P: Math 203 with at least a C grade.

Fall Only.

**MATH 321. Linear Algebra II. 3 Credits.**

Matrices and vector space concepts. Systems of linear equations, matrices, determinants, vectors in two-and three-space, vector spaces, linear transformations, eigenvalues, and eigenvectors; positive-definite matrices, normal forms, the principal axis theorem, applications.

P: Math 320 with at least a C grade.

Spring.

**MATH 323. Analysis I. 4 Credits.**

A course in the basic ideas of classical real analysis. Sets, functions, real numbers, limits, Euclidean space, topology of Euclidean space, continuity and uniform continuity, uniform convergence, and function spaces and their applications.

P: Math 209 with at least a C grade and 314 with at least a C grade.

Fall Only.

**MATH 324. Analysis II. 4 Credits.**

Differentiable mappings, the inverse and implicit function theorems and related topics, integration on Euclidean space, Fubini's theorem and the change of variables formula, and Fourier Analysis.

P: Math 323 with at least a C grade.

Spring.

**MATH 328. Introduction to Algebraic Structures. 3 Credits.**

Groups, rings, and fields as organizing ideas. Basic structure theorems. Applications.

P: Math 314 with at least a C grade and 320 with at least a C grade.

Fall Only.

**MATH 355. Applied Mathematical Optimization. 3 Credits.**

Analytical and numerical optimization techniques; linear, nonlinear, integer, and dynamic programming. Techniques applied to problems of water, forest, air and solid-waste management.

P: Math 320 with at least a C grade or conc enr.

Fall Even.

**MATH 360. Theory of Probability. 3 Credits.**

Probability as a mathematical system, with applications; basic probability theory; combinatorial analysis; distribution functions and probability laws; mean and variance of a probability law; expectation related probability laws; random variables.

P: Math 209 with at least a C grade.

Fall Even.

**MATH 361. Mathematical Statistics. 3 Credits.**

Sample moments and their distributions; tests of hypotheses; point and interval estimation; regression and linear hypotheses; nonparametric methods; sequential methods.

P: Math 320 with at least a C grade and 360 with at least a C grade.

Spring Odd.

**MATH 385. Foundations of Geometry. 3 Credits.**

Intuitive and deductive introductions to Euclidean, affine, hyperbolic, spherical, elliptic and projective geometries.

P: Math 314 with at least a C grade.

Spring.

**MATH 410. Complex Analysis. 3 Credits.**

Algebra and geometry of complex numbers; analytic functions, elementary transformations, integration, Taylor and Laurent series, contour integration, residues, conformal mapping.

P: Math 209 with at least a C grade.

Fall Even.

**MATH 425. Dynamical Systems. 3 Credits.**

Fundamental concepts and techniques of discrete and continuous dynamical systems; asymptotic behavior, structural stability, elementary bifurcations, strange attractors, fractals, chaos. Applications to physical and biological systems.

P: Math 209 with at least a C grade and 320 with at least a C grade; and 305 with at least a C grade or conc enr.

Spring Even.

**MATH 430. Design of Experiments. 4 Credits.**

Statistical theory and practice underlying the design of scientific experiments, and methods of analysis. Replication, randomization, error, linear models, least squares, crossed and nested models, blocking, factorial experiments, Latin squares, confounding, incomplete blocks, split-plots.

P: Math 202 with at least a C grade; and Math 260 with at least a C grade or Bus Adm 215 with at least a C grade.

Spring Even.

**MATH 431. Multivariate Statistical Analysis. 4 Credits.**

Principles and practice in the analysis of multivariate data. Correlation, partial correlation, principle components, factor analysis discriminate functions, canonical correlation, cluster analysis, multidimensional scaling. Emphasis on computer analysis of actual data.

P: Math 202 with at least a C grade and 320 with at least a C grade; and Math 260 with at least a C grade or Bus Adm 215 with at least a C grade.

Spring Odd.

**MATH 467. Applied Regression Analysis. 4 Credits.**

Techniques for fitting linear regression models are developed and applied to data. Topics include simple linear regression, multivariate regression, curvilinear regression, linearizable models and time series.

P: Math 260 with at least a C grade or Bus Adm 215 with at least a C grade; and Math 202 with at least a C grade and 320 with at least a C grade; REC: knowledge of Excel.

Fall Only.

**MATH 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**MATH 492. Special Topics in Mathematics. 1-4 Credits.**

This course brings together students and professors who have a mutual interest in some topic not otherwise available among the usual mathematics and statistics offerings.

**MATH 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**MATH 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**MATH 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Military Science (MIL SCI)

### Courses

**MIL SCI 211. Leadership and Military Science I. 2 Credits.**

An introductory course designed to orient the student to the ROTC program and to familiarize the student with the fundamentals of various military skills including rappelling, land navigation, first aid and weapon and equipment orientation. Additionally the curriculum emphasizes customs and traditions of the military, stress management, goal setting, physical fitness and history of ROTC. Leadership Students have an option to participate in a survival Field Training Exercise that includes a ride in military helicopter, rappelling from a 60 foot tower, land navigation and field survival skills. Leadership Laboratory required, Physical Fitness session optional.

Fall Only.

**MIL SCI 212. Leadership and Military Science II. 2 Credits.**

Further development of leadership skills and the orientation of the ROTC program. Curriculum focuses primarily on communication skills, leadership traits and behaviors, and basic combat tactics. Additionally, advanced land navigation skills and basic rifle marksmanship skills are taught. Students have the opportunity to attend a Field Training Exercise that includes advanced land navigation skills, live M16 rifle firing and a helicopter ride to Neenah Middle School. Leadership Lab Required, Physical Fitness session optional.

Spring.

**MIL SCI 221. Basic Leadership and Management I. 3 Credits.**

Familiarize the student with leadership traits, analysis and styles; effective communication, introduction to problem solving and the Army Troop Leading Procedures, principles of warfare, the Army Value System and Terrorism Awareness. . Students have an option to participate in a survival Field Training Exercise that includes a ride in military helicopter, rappelling from a 60 foot tower, land navigation and field survival skills. Leadership Laboratory required, Physical Fitness session optional.

P: Mil Sci 211 and 212.

Fall Only.

**MIL SCI 222. Basic Leadership and Management II. 3 Credits.**

Familiarize students with Army Troop Leading Procedures, problem solving, Map Reading and Orienteering, Infantry Battle Drills, and the Army Orders Process. Students have the opportunity to attend a Field Training Exercise that includes advanced land navigation skills, live M16 rifle firing and a helicopter ride to Neenah Middle School. Leadership Lab Required, Physical Fitness session optional.

P: Mil Sci 211 and 212.

Spring.

**MIL SCI 431. Advanced Leadership and Management I. 4 Credits.**

The objective of this course is to present instruction in, and practical applications of, the principles and techniques of leadership and management by identifying and illustrating effective leadership traits. Provides an insight into factors affecting behavior, and an opportunity for application of leadership and management techniques. An introduction to the basics of military justice and supply management.

P: Mil Sci 211, 212, 221 and 222.

Fall Only.

**MIL SCI 432. Advanced Leadership and Management II. 4 Credits.**

The objectives of this course are: 1) to stress the leadership role in directing and coordinating individual and military team efforts in the execution of offensive and defensive missions; 2) to familiarize the student with the roles of the various branches in the overall mission of the Army and their functions in support of forces; 3) to teach the principles of command and control, leadership techniques, and communications systems used in the tactical employment of small units. Leadership laboratory required and includes a weekend field trip.

P: Mil Sci 211, 212, 221 and 222.

Spring.



**MIL SCI 441. Applied Leadership and Management I. 4 Credits.**

The objectives of this course are: 1) to give an overview of Army organization; 2) to give an introduction to the duties of the staff, emphasizing staff estimates and reports, military intelligence, staff planning, operations, and staff recommendation; 3) further study in command, decision-making, command and control; 4) introduction and study of ethics and the military profession. Leadership laboratory required and includes a weekend field trip.  
P: Mil Sci 431 and 432.

Fall Only.

**MIL SCI 442. Applied Leadership and Management II. 4 Credits.**

The objectives of the course are: 1) to introduce the student to military law and administration; 2) continue the study of organization leadership; 3) introduce students to military protocol; 4) provide a field and social environment for students to exercise military tactical training and social courtesies. Leadership laboratory required includes a weekend field trip.

P: Mil Sci 431 and 432.

Spring.

## Music Applied (MUS APP)

### Courses

**MUS APP 11. Keyboard Musicianship I. 1 Credit.**

Instruction in basic keyboard skills to include scales, chords, simple accompaniments, and beginning to intermediate solo literature.

P: Completion of or conc enr in Music 151.

Fall Only.

**MUS APP 13. Advanced Keyboard Musicianship. 1 Credit.**

Practical study of harmony, figured bass, score reading and improvisation at the piano.

P: Completion of or concurrent enrollment in MUSIC 152.

Spring.

**MUS APP 21. Keyboard Musicianship II. 1 Credit.**

Instruction in basic keyboard skills to include scales, chords, simple accompaniments, improvisation, and beginning to intermediate solo literature.

P: Music 151 and completion of or concurrent enrollment in MUSIC 152.

Spring.

**MUS APP 31. Keyboard Musicianship III. 1 Credit.**

Instruction in basic keyboard skills to include scales, chords, simple accompaniments, and beginning to intermediate solo literature.

P: Completion of or concurrent enrollment in Music 253.

Fall Only.

**MUS APP 41. Keyboard Musicianship IV. 1 Credit.**

Instruction in basic keyboard skills to include scales, chords, etudes, and performance, transposition and improvisation of accompaniments.

P: Completion of or concurrent enrollment in MUSIC 253.

Spring.

**MUS APP 45. Elementary Voice I. 1 Credit.**

Beginning level instruction in vocal health, and the physiology and techniques of singing. Use of the singing voice in teaching music is a course component.

P: Music 151 or conc enr.

Fall and Spring.

**MUS APP 69. Elementary Guitar. 1 Credit.**

This course is designed to build a technical and musical vocabulary for effective use of the guitar as an accompanying instrument in the music classroom.

P: Educ 253 and must provide guitar.

Spring.

**MUS APP 101. Keyboard Lessons 1. 1-2 Credits.**

Students study the solo literature of keyboard instruments through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 151 or 152; Conc Enr in MUS ENS 241 or 261 or 262

Fall and Spring.

**MUS APP 102. Keyboard Lessons 2. 1-2 Credits.**

Students study the solo keyboard literature through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 105. Voice Lessons 1. 1-2 Credits.**

Students study the solo literature of their voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 151 or 152; Conc Enr in MUS APP 261 or 262

Fall and Spring.

**MUS APP 106. Voice Lessons 2. 1-2 Credits.**

Students study the solo literature of their voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 151 or 152; Conc Enr in MUS ENS 261 or 262; Minimum grade of C in corresponding previous level of applied lessons.

Fall and Spring.

**MUS APP 127. Instrumental Lessons 1. 1-2 Credits.**

Students study the solo literature through private instruction. The development of technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of Music 151; Conc enr in Mus Ens 241 REC: Conc enr in MUSIC 115

Fall and Spring.

**MUS APP 128. Instrumental Lessons 2. 1-2 Credits.**

Students study the solo literature through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of Music 152; Conc enr in Mus Ens 241; Minimum grade of C in MUS APP 127. REC: Conc enr in MUSIC 116.

Fall and Spring.

**MUS APP 181. Phoenix Band. 1-2 Credits.**

The UW-Green Bay Phoenix Band performs at UWGB basketball home games. Membership is open to anyone who plays a band instrument. The ensemble rehearses during the first weeks of the semester and then performs at games once the season begins. (The course will begin in September and end in April to parallel the basketball season.)

Audition required.

Fall Only.

**MUS APP 201. Keyboard Lessons 3. 1-2 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 202. Keyboard Lessons 4. 1-2 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 253 or MUSIC 254; Conc Enr in MUS ENS 241 or MUS ENS 261 or MUS ENS 262 or MUS ENS 441 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 201

Fall and Spring.

**MUS APP 205. Voice Lessons 3. 1-2 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 206. Voice Lessons 4. 1-2 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 227. Instrumental Lessons 3. 1-2 Credits.**

Students study the solo literature through private instruction. The development of proper technique, historically accurate interpretations, and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 253; Conc Enr in MUS ENS 241 or 441; Minimum grade of C in MUS APP 128.

Fall and Spring.

**MUS APP 228. Instrumental Lessons 4. 1-2 Credits.**

Students study the solo literature of percussion through private instruction. The development of proper technique, stylistically appropriate interpretations, and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 254; Conc Enr in MUS ENS 241 or 441; Minimum grade of C in MUS APP 227. REC: Conc enr in MUSIC 354.

Fall and Spring.

**MUS APP 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**MUS APP 301. Keyboard Lessons 5. 1-3 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353 or MUSIC 354; Conc enr in MUS ENS 441 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 202

Fall and Spring.

**MUS APP 302. Keyboard Lessons 6. 1-3 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 305. Voice Lessons 5. 1-3 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 306. Voice Lessons 6. 1-3 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 327. Instrumental Lessons 5. 1-3 Credits.**

Students study the solo literature of percussion through private instruction. The development of proper technique, stylistically appropriate interpretations, and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353; Conc enr in MUS ENS 441; Minimum grade of C in MUS APP 228.

Fall and Spring.

**MUS APP 328. Instrumental Lessons 6. 1-3 Credits.**

Students study the solo literature through private instruction. The development of proper technique, stylistically appropriate interpretations, and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 354; Conc enr in MUS ENS 441; Minimum grade of C in MUS APP 327.

Fall and Spring.

**MUS APP 381. Phoenix Band. 1-2 Credits.**

The UW-Green Bay Phoenix Band performs at UWGB basketball home games. Membership is open to anyone who plays a band instrument. The ensemble rehearses during the first weeks of the semester and then performs at games once the season begins. (The course will begin in September and end in April to parallel the basketball season.)

Audition required.

Fall Only.

**MUS APP 396. Junior Recital. 0 Credits.**

Required of students pursuing the B.M. degree. An elective course for any other student who qualifies.

P: Music major and concurrent enrollment in Mus App 302, 306, or 328.

Fall and Spring.

**MUS APP 401. Keyboard Lessons 7. 1-3 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 402. Keyboard Lessons 8. 1-3 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 405. Voice Lessons 7. 1-3 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 406. Voice Lessons 8. 1-3 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

Fall and Spring.

**MUS APP 427. Instrumental Lessons 7. 1-3 Credits.**

Students study the solo literature through private instruction. The development of proper technique, stylistically appropriate interpretations, and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353; Conc enr in MUS ENS 441; Minimum grade of C in MUS APP 328.

Fall and Spring.

**MUS APP 428. Instrumental Lessons 8. 1-3 Credits.**

Students study the solo literature through private instruction. The development of proper technique, stylistically appropriate interpretations and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 354; Conc enr in MUS ENS 441; Minimum grade of C in MUS APP 427.

Fall and Spring.

**MUS APP 496. Senior Recital. 1 Credit.**

Students will research historical, social, cultural, and/or musically significant aspects of the literature they perform. The research will be presented in performance, writing, and/or other media. Students will be responsible for developing and carrying out a promotional plan for their recital. Required of students pursuing the B.M. degree with an emphasis in performance.

P: Music major and concurrent enrollment in Mus App 402, 406, or 428.

Fall and Spring.

**MUS APP 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**MUS APP 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

## Music Ensemble (MUS ENS)

### Courses

**MUS ENS 142. Jazz Combo. 1 Credit.**

Combos are open to all students by audition. Groups consist of rhythm section plus three or four horns. Students are required to arrange standard tunes or compose original tunes for the ensemble. Combos perform both on and off campus.

P: audition.

Fall and Spring.

**MUS ENS 143. Jazz Ensemble. 1 Credit.**

Jazz ensembles are open to all students by audition. The literature performed includes traditional swing and many other contemporary styles. The ensembles rehearse regularly and perform on and off campus.

P: audition.

Fall and Spring.

**MUS ENS 144. Woodwind Ensemble. 1 Credit.**

This ensemble performs a variety of literature from the Baroque to the present, specializing in works for small ensembles including: saxophone quartet, woodwind quintet, clarinet trios, flute trios, choirs of instruments, and mixed ensembles. This ensemble is open to all students by audition.

P: audition.

Fall and Spring.

**MUS ENS 145. Brass Ensemble. 1 Credit.**

Brass ensemble is open to students of all majors who have proficiency on a brass instrument. The instrumentation is flexible, performing music that ranges from brass choirs and large fanfares to chamber music such as quintets, duets, and trios.

P: Audition

Fall Only.

**MUS ENS 146. Contemporary Percussion Ensemble. 1 Credit.**

The Contemporary Percussion Ensemble performs the most serious literature written for this genre. Its repertory centers around music by American composers. University-owned equipment is provided. Open to all university students by audition.

P: audition.

Fall and Spring.

**MUS ENS 150. New Music Ensemble. 1 Credit.**

This chamber ensemble is open to all university students by audition. It performs music composed since 1945. A variety of styles are explored which include avant garde, graphic, serial, neoclassic, minimalist, and new-romantic.

P: Audition

Spring.

**MUS ENS 151. Orchestra. 1 Credit.**

P: May be repeatable for credit. None.

P: Audition.

**MUS ENS 163. Chamber Singers. 1 Credit.**

Chamber Singers is an auditioned select choral ensemble open to all students. Its repertoire consists of music suitable for small chamber choirs, including Renaissance Madrigals, Chansons and Lieder, Romantic Part songs, and selected music from other style periods.

P: audition.

Fall and Spring.

**MUS ENS 165. Vocal Jazz Ensemble. 1 Credit.**

Vocal jazz is open to all students by audition. The ensemble is limited to 20 voices plus rhythm section. Students perform standard jazz literature in a group and solo setting, improvise using scat singing and study contemporary singing styles. The ensemble performs on and off campus.

P: audition.

Fall and Spring.

**MUS ENS 166. Opera Studio. 1 Credit.**

This course involves the preparation and performance of opera, operetta, or musical theatre repertoire. The class is designed for the singing actor/actress.

P: audition; REC: Mus App 045 or 105 or 190 or Theatre 190.

Spring.

**MUS ENS 188. Hand Drumming Ensemble. 1 Credit.**

The Hand Drumming Ensemble is a 15-member ensemble which performs music based on the traditional music of West Africa, Cuba, and South America. University-owned equipment is provided. This course is open to all university students by audition.

P: audition.

Fall and Spring.

**MUS ENS 241. Concert Band. 1 Credit.**

Wind Symphony: The UW Green Bay Wind Symphony is the Premier concert band of the University. Repertoire is highly challenging, and emphasizes great individual responsibility for part preparation. Members are expected to do a good deal of practice outside of rehearsals. Membership in the Wind Symphony is by audition only. Qualified students from all majors are encouraged to audition. Symphonic Band: The Symphonic Band is comprised of a diverse population of students, including music and non-music majors. The band performs high quality and entertaining literature, emphasizing musical growth, and comprehensive understanding of musical issues. Auditions are optional.

P: audition.

Fall and Spring.

**MUS ENS 261. Concert Choir. 1 Credit.**

An auditioned choral ensemble open to qualified students from all majors. The concert Choir performs high quality repertoire drawn from a wide variety of periods and styles. Emphasis is placed on developing good choral tone, strengthening musical skills, and fostering a comprehensive understanding of the literature studied.

P: audition.

Fall and Spring.

**MUS ENS 262. Chorale. 1 Credit.**

Chorale is the premier choral ensemble of the University. Membership is determined by a rigorous audition with an emphasis on sightreading skills. The repertoire, drawn from a wide variety of periods and styles, is extremely challenging and requires a great deal of individual preparation.

P: audition.

Fall and Spring.

**MUS ENS 313. Keyboard Accompanying. 1 Credit.**

Applied study in vocal and/or instrumental accompanying for pianists.

P: Completion of MUS APP 102, must be music major or music minor.

Fall and Spring.

**MUS ENS 342. Jazz Combo. 1 Credit.**

Combos are open to all students by audition. Groups consist of rhythm section plus three or four horns. Students are required to arrange standard tunes or compose original tunes for the ensemble. Combos perform both on and off campus.

P: Junior status and audition

Fall and Spring.

**MUS ENS 343. Jazz Ensemble. 1 Credit.**

Jazz ensembles are open to all students by audition. The literature performed includes traditional swing and many other contemporary styles. The ensembles rehearse regularly and perform on and off campus.

P: jr st and audition.

Fall and Spring.

**MUS ENS 344. Woodwind Ensemble. 1 Credit.**

This ensemble performs a variety of literature from the Baroque to the present, specializing in works for small ensembles including: saxophone quartet, woodwind quintet, clarinet trios, flute trios, choirs of instruments, and mixed ensembles. This ensemble is open to all students by audition.

P: jr st and audition.

Fall and Spring.

**MUS ENS 345. Brass Ensemble. 1 Credit.**

Brass ensemble is open to students of all majors who have proficiency on a brass instrument. The instrumentation is flexible, performing music that ranges from brass choirs and large fanfares to chamber music such as quintets, duets, and trios.

P: Junior Status and audition

Fall Only.

**MUS ENS 346. Contemporary Percussion Ensemble. 1 Credit.**

The Contemporary Percussion Ensemble performs the most serious literature written for this genre. Its repertory centers around music by American composers. University-owned equipment is provided. This class is open to all university students by audition.

P: jr st and audition.

Fall and Spring.

**MUS ENS 350. New Music Ensemble. 1 Credit.**

This chamber ensemble is open to all university students by audition. It performs music composed since 1945. A variety of styles are explored which include avant garde, graphic, serial, neoclassic, minimalist, and new-romantic.

P: Junior status and audition

Spring.

**MUS ENS 363. Chamber Singers. 1 Credit.**

Chamber Singers is an auditioned select choral ensemble open to all students. Its repertory consists of music suitable for small chamber choirs, including Renaissance Madrigals, Chansons and Lieder, Romantic Partsongs, and selected music from other style periods.

P: jr st and audition.

Fall and Spring.

**MUS ENS 365. Vocal Jazz Ensemble. 1 Credit.**

Vocal jazz is open to all students by audition. The ensemble is limited to 20 voices plus rhythm section. Students perform standard jazz literature in a group and solo setting, improvise using scat singing and study contemporary singing styles. The ensemble performs on and off campus.

P: jr st and audition.

Fall and Spring.

**MUS ENS 366. Opera Studio. 1 Credit.**

This course involves the preparation and performance of opera, operetta, or musical theatre repertoire. The class is designed for the singing actor/actress.

P: jr st and audition; REC: Mus App 105 or 045 or 190 or Theatre 190.

Spring.

**MUS ENS 388. Hand Drumming Ensemble. 1 Credit.**

The Hand Drumming Ensemble is a 15-member ensemble which performs music based on the traditional music of West Africa, Cuba, and South America. University-owned equipment is provided. This course is open to all university students by audition.

P: audition.

Fall and Spring.

**MUS ENS 441. Concert Band. 1 Credit.**

Wind Symphony: The UW Green Bay Wind Symphony is the Premier concert band of the University. Repertoire is highly challenging, and emphasizes great individual responsibility for part preparation. Members are expected to do a good deal of practice outside of rehearsals. Membership in the Wind Symphony is by audition only. Qualified students from all majors are encouraged to audition. Symphonic Band: The Symphonic Band is comprised of a diverse population of students, including music and non-music majors. The band performs high quality and entertaining literature, emphasizing musical growth, and comprehensive understanding of musical issues. Auditions are optional.

P: jr st and audition.

Fall and Spring.

**MUS ENS 461. Concert Choir. 1 Credit.**

An auditioned choral ensemble open to qualified students from all majors. The concert Choir performs high quality repertoire drawn from a wide variety of periods and styles. Emphasis is placed on developing good choral tone, strengthening musical skills, and fostering a comprehensive understanding of the literature studied.

P: jr st and audition.

Fall and Spring.

**MUS ENS 462. Chorale. 1 Credit.**

Chorale is the premier choral ensemble of the University. Membership is determined by a rigorous audition with an emphasis on sightreading skills. The repertoire, drawn from a wide variety of periods and styles, is extremely challenging and requires a great deal of individual preparation.

P: jr st and audition.

Fall and Spring.

## Music (MUSIC)

### Courses

**MUSIC 102. Concert Attendance. 0 Credits.**

Students develop listening skills and an appreciation for and awareness of the breadth of musical genres and repertory through attendance at music concerts. Attendance encourages the development of audience skills, aesthetic appreciation, and a sense of membership in a learning community of musicians.

P: Must be Music major or Music minor

Fall and Spring.

**MUSIC 103. Music Technology Tools. 1 Credit.**

An introduction to music software and technology commonly used by musicians.

P: conc enr Music 151

Fall Only.

**MUSIC 115. Ear Training and Sight Singing I. 1 Credit.**

Concentrated drill in all aspects of musicianship. Emphasis on sight singing and aural perception in intervals, melodies, chords and rhythms.

P: conc enr in Music 151.

Fall Only.

**MUSIC 116. Ear Training and Sight Singing II. 1 Credit.**

Concentrated drill in all aspects of musicianship. Emphasis on sight singing and aural perception in intervals, melodies, chords and rhythms.

P: Music 115;and 152 or Music 153 or concurrent enrollment.

Spring.

**MUSIC 121. Survey of Western Music. 3 Credits.**

The musical styles of several well-known composers as evident in selected compositions; review of a basic repertoire of musical compositions of various forms and styles.

Fall Only.

**MUSIC 151. Music Theory I. 3 Credits.**

The materials of which Western music is made are viewed not only in structural terms, but also in psychological, aesthetic and social perspective.

P: conc enr in Music 115; and conc enr in Mus App 011 or 021 or 031 or 013.

Fall Only.

**MUSIC 152. Music Theory II. 3 Credits.**

The materials of which Western music is made are viewed not only in structural terms, but also in psychological, aesthetic and social perspective.

P: Music 151.

Spring.

**MUSIC 198. First Year Seminar. 3 Credits.**

First Year Seminar

Reserved for New Incoming Freshman.

**MUSIC 209. Applied Composition. 1 Credit.**

An individualized approach to the study of music composition, with an emphasis on small-scale forms and small ensemble works.

P: Music 152 or 153

Fall and Spring.

**MUSIC 215. Advanced Sight Singing and Ear Training. 1 Credit.**

Concentrated musicianship training with emphasis on chromatic melodies, advanced rhythmic, melodic, and harmonic dictation.

P: Successful completion of MUSIC 116 with a grade of C or better and concurrent enrollment in MUSIC 253.

Fall Only.

**MUSIC 220. Introduction to Jazz Theory and Improvisation. 2 Credits.**

An introduction to jazz theory and improvisation through lecture and classroom performance on instrument and voice. Emphasis will be placed on scales, modes and harmonic progressions which are common to the jazz repertoire.

P: Music 151 or conc enr. Rec: ability to read music.

Spring Even.

**MUSIC 224. Popular Music Since 1955. 3 Credits.**

Evolution of popular music since 1955 and its relationship to society, especially rock music in the 1960's and early 1970's, the period of greatest stylistic expansion and also the period in which the music was most intimately intertwined with its social milieu.

Fall Only.

**MUSIC 242. Jazz and Pop Literature. 2 Credits.**

Open to singers or instrumentalists. Students memorize and perform standard pop and jazz literature.

P: Music 151.

Spring Odd.

**MUSIC 253. Music Theory III. 3 Credits.**

Study of tonal and structural organization in music: non-chord tones, seventh chords, secondary harmonic relationships, methods of modulation, simple forms, counterpoint, and chromatic tonality.

P: Successful completion of MUSIC 116 and MUSCI 152 or 153 with a grade of C or better, and completion of Mus Ap 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, or 138. REC: Concurrent enrollment in Music 353.

Fall Only.

**MUSIC 254. Music Theory IV. 3 Credits.**

Advanced study of chromatic tonality in music: methods of modulation, reductionism, advanced chromatic functions, enharmonicism, and materials of impressionism and 20th century technique.

P: Successful completion of MUSIC 215 and 253. REC: conc enr MUSIC 354.

Spring.

**MUSIC 272. Women in the Performing Arts. 3 Credits.**

This interdisciplinary course examines the contributions of women in the performing arts and looks closely at the factors which constrain and further women's creativity in a variety of performing genres: dance, theater, opera, musical theater, conducting, composition, etc.

Spring Even.

**MUSIC 283L. Integrated Materials in Music. 2 Credits.**

A study of the basic materials of music theory with an integrated approach to the visual or aural recognition of those materials.

**MUSIC 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**MUSIC 301. Music Technology Systems. 2 Credits.**

This course will provide information and experience with the terminology, resources and techniques needed to successfully record, edit, and produce music using a digital audio workstation. In addition, topics such as live sound, analog synthesis, MIDI, and notation software will be explained and used to enhance student-created music.

P: Music 103 and completion or conc enr in Music 152.

Spring Even.

**MUSIC 305. Diction for Singers I. 2 Credits.**

Introduction to the International Phonetic Alphabet and a specialized approach to diction study for American English and French.

Fall Even.

**MUSIC 306. Diction for Singers II. 2 Credits.**

Specialized approach to diction study of Italian and German using the International Phonetic Alphabet.

P: Music 305.

Spring Odd.

**MUSIC 311. Jazz Improvisation. 1-2 Credits.**

Development of skills in musical improvisation: notation and function of chords, chord symbols, scales and rhythms; selected record listening and playing sessions.

P: Music 253.

Fall and Spring.

**MUSIC 319. Choral/Vocal Techniques. 1 Credit.**

This course will provide instruction in: 1) a basic method of teaching vocal production at all levels of public school instruction; 2) basic skills in arranging, adapting, and creating scores for small and large choral ensembles; and 3) basic techniques for choosing high quality choral literature from the Renaissance to the present, suitable for performance at all levels of public school instruction.

P: Music 253 and Mus App 011; and Music 306 or conc enr.

Spring Odd.



**MUSIC 333. Basic Conducting. 2 Credits.**

Detailed study of conducting techniques: practical application to choral and instrumental ensembles.

P: Music 152 or 153 and one of the following; Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 or 138.

Fall Only.

**MUSIC 341. Woodwind Techniques. 2 Credits.**

Experience in the performance, pedagogy and critical evaluation of woodwind instruments, including flute, oboe, bassoon, clarinet, and saxophone.

Experience arranging and adapting music for woodwind players in school ensembles.

P: Music 152 or 153 and one of the following; Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 or 138.

Fall Even.

**MUSIC 342. Brass Techniques. 2 Credits.**

Experience in the performance, pedagogy and critical evaluation of brass instruments, including trumpet, French horn, trombone, baritone, and tuba.

Experience arranging and adapting music for brass instruments in student ensembles.

P: Music 152 or 153 and one of the following; Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 or 138.

Fall Odd.

**MUSIC 343. String Techniques. 2 Credits.**

Experience in the performance, pedagogy and critical evaluation of string instruments, including violin, viola, violoncello and string bass. Experience

arranging and adapting music for string players in school ensembles.

P: Music 152 or 153 and one of the following; Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 or 138.

Spring Odd.

**MUSIC 344. Choral Conducting and Rehearsal Techniques. 3 Credits.**

Advanced study of conducting and rehearsal techniques for school vocal ensembles, including principles, techniques and methods of choral tone, diction and score study.

P: Music 333; REC: jr st.

Spring Even.

**MUSIC 345. Percussion Techniques. 2 Credits.**

Experience in the performance, pedagogy and critical evaluation of percussion instruments, including snare drum, timpani, keyboards, and accessories.

Experience arranging for percussionists in school ensembles.

P: Music 152 or 153 and one of the following; Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 or 138.

Spring Even.

**MUSIC 348. Instrumental Conducting and Rehearsal Techniques. 3 Credits.**

Advanced study of conducting and rehearsing school instrumental ensembles, including score preparation, analysis and musical error detection with specific assignments for marching band and jazz ensemble directing.

P: Music 333; REC: Music 341 or 342 or 343 or 345.

Spring Odd.

**MUSIC 353. Music History I. 3 Credits.**

Historical examination of Western music from antiquity to the 18th century.

P: Music 152.

Fall Only.

**MUSIC 354. Music History II. 3 Credits.**

Historical examination of Western music from 19th century to the present.

P: Music 152 and 353.

Spring.

**MUSIC 362. World Music. 3 Credits.**

Survey of tribal, folk and non-western art music with an emphasis on cultural, social, religious, political and economic context.

Spring.

**MUSIC 363. Jazz History. 3 Credits.**

Cultural conflict, influence and enrichment that arise when differing traditions of the arts come into contact with Jazz History.

Fall and Spring.

**MUSIC 364. Musical Theatre History. 3 Credits.**

Cultural conflict, influence and enrichment that arise when differing traditions of the arts come into contact with musical theatre and its development.

Fall Odd.

**MUSIC 411. Advanced Composition. 1-2 Credits.**

An individualized approach to the study of music composition, with an emphasis on large-scale forms and medium to large ensemble works.

P: Music 209, Music 254 and completion of or concurrent enrollment in Music 354.

Fall and Spring.

**MUSIC 417. Jazz Arranging. 2 Credits.**

Provides students with the knowledge necessary to write jazz arrangements for small and large ensembles.

P: Music 253

Fall and Spring.

**MUSIC 423. Seminar in Music Literature. 3 Credits.**

Studies in selected areas of music literature for specific media, such as chamber music, opera, music for keyboard, etc., or on works of a single composer.

P: Music 254 and completion of or concurrent enrollment in Music 354.

Spring Even.

**MUSIC 453. Materials and Design. 3 Credits.**

Investigation of various compositional techniques and formal processes through score study. Concepts explored through composition exercises and original creative works.

P: Successful completion of MUSIC 254 and completion of or concurrent enrollment in MUSIC 354.

Spring.

**MUSIC 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**MUSIC 480. Capstone Project. 3 Credits.**

Students complete a faculty approved project with one or more faculty members, at least one of which is from Music, culminating in a performance, composition, production, research project, community based activity, internship, travel course, or other approved project.

P: Music 354

Fall and Spring.

**MUSIC 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**MUSIC 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**MUSIC 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Nursing (NURSING)

### Courses

**NURSING 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**NURSING 407. Foundations of Professional Nursing Practice. 3 Credits.**

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.

P: Nursing Major and RN License

Fall and Spring.

**NURSING 441. Chronic Care Management. 3 Credits.**

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.

P: Nursing major and RN license

Fall and Spring.

**NURSING 446. Research and Evidence-Based Practice. 3 Credits.**

This course 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.

P: Nursing Major and RN license; Math 260, Comm Sci 205 or Bus Adm 216 or conc enrl.

Fall and Spring.

**NURSING 447. Leadership and Management. 3 Credits.**

Examines nursing leadership and management using relevant theories and concepts. Analyze decision making in relation to delegation, supervision, and group process.

P: Nursing Major and RN License

Fall and Spring.

**NURSING 453. Information Management and Healthcare Technology. 3 Credits.**

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. Opportunities to use and master various healthcare technologies and healthcare data will be given.

P: Nursing major and RN license

Fall and Spring.

**NURSING 454. Community Health Nursing. 3 Credits.**

This course provides an overview of community nursing theory, roles, tools and skills needed to promote the health of individuals, families, and populations in communities.

P: Nursing Major and RN License

Fall and Spring.

**NURSING 455. Community Health Nursing Practicum. 3 Credits.**

Community Health Nursing Practicum complements the theory, models, and concepts learned in Community Health Nursing. It is a practice component that brings community health nursing into reality. The focus is on disease prevention and health promotion for individuals, families, aggregates, and communities.

P: Major in Nursing: Nursing 454 or concurrent enrollment

Fall and Spring.

**NURSING 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**NURSING 487. Evidence-Based Nursing Practice. 3 Credits.**

This course focuses on the evaluation and utilization of research and other sources of knowledge necessary to address patient needs and provide quality care. Course content covers methods, appraisal, and utilization of research findings with the goal of implementing best practices. Barriers to the use of evidence-based practice and facilitating innovations within the workplace are addressed.

P: Math 260, Comm Sci 205 or Bus Adm 215 or conc enrl.

**NURSING 490. Synthesis for Nursing Practice. 3 Credits.**

Course focus is synthesis of professional nursing roles introduced in previous courses. In addition, nursing theories are analyzed in light of their value to practice. Nursing's societal involvement is emphasized.

P: Major in Nursing; Nursing 407, 441, 446, 447, 453, 454, 455, and 492 or conc enrl.

Fall and Spring.

**NURSING 492. Special Topics in Nursing. 2-4 Credits.**

Course topics vary. Typical topics include Nursing Care of Older Adults, Pharmacology, Pathophysiology, Women's Health Care, Informatics, School Health.

P: major in Nursing.

**NURSING 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**NURSING 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Nutritional Sciences (NUT SCI)

## Courses

### **NUT SCI 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

### **NUT SCI 201. Survey of Nutrition Related Professions. 1 Credit.**

An overview of the educational, credentialing and practice opportunities for dietetic and related professions. Explore career options for graduates, examine current trends that impact on future jobs, conduct a self-assessment and develop personal career goals.

Fall Only.

### **NUT SCI 212. Science of Food Preparation. 4 Credits.**

Studies the chemical, physical and microbiological characteristics of food and the manipulation of these factors to meet quality standards. Laboratory activities demonstrate principles of food science as applied to food preparation, sanitation and safety.

P: Chem 108 with at least a C grade or Chem 211 with at least a C grade.

Fall Only.

### **NUT SCI 242. Food and Nutritional Health. 3 Credits.**

A basic course in nutrition with an emphasis on the application of nutrition concepts to personal everyday life. Covers the role of nutrients (calories, carbohydrates, fats, protein, vitamins and minerals) in promoting health. Evaluates a healthy diet and lifestyle.

Fall and Spring.

### **NUT SCI 250. World Food and Population Issues. 3 Credits.**

World hunger and population growth as interrelated problems. Dimensions of the world food situation and its implications; scope, complex causes and effects of malnutrition; general strategies and obstacles to the solution of world food and population problems.

Fall and Spring.

### **NUT SCI 260. Childhood Obesity: Challenges and Solutions. 3 Credits.**

This course will examine the current national and global research related to childhood obesity, with a focus on the physiological, environmental, and behavioral factors that may predispose children and adolescents to obesity. Strategies for effective treatment and prevention will also be examined.

Spring.

### **NUT SCI 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

### **NUT SCI 300. Human Nutrition. 3 Credits.**

Examines the physiologic and metabolic roles of nutrients and their food sources. Analysis of the nutrient content of diets and requirements for maintenance of health and prevention of chronic diseases.

P: Biology 201/202 with at least a C grade; and Chem 108 with at least a C grade or 212 with at least a C grade.

Fall and Spring.

### **NUT SCI 302. Ethnic Influences on Nutrition. 3 Credits.**

This course examines the ways in which ethnicity influences food habits and can affect nutrition and health status.

Fall and Spring.

### **NUT SCI 312. Quantity Food Production and Service. 4 Credits.**

Principles of quantity food preparation, service, and budgeting in food service systems. Projects and laboratories afford pertinent practical experiences.

P: Nut Sci 212 with at least a C grade.

Spring.

### **NUT SCI 327. Nutritional Biochemistry. 4 Credits.**

A lecture/laboratory course of applied organic chemistry and biochemistry with an emphasis on human nutrition and disease. Examines structure/function relationships and reactions of molecules, metabolic regulation and the roles of nutrients in normal and abnormal metabolism.

P: Biology 201/202 with at least a C grade; and both Chem 300 and 301 with at least a C grade or both Chem 303 and 305 with at least a C grade.

Fall Only.

### **NUT SCI 350. Life Cycle Nutrition. 3 Credits.**

Covers nutrient needs and physiologic changes relevant to stages of the life cycle. Also examines psychosocial and environmental conditions that impact on nutrition status in each stage.

P: Nut Sci 300 with at least a C grade.

Spring.

### **NUT SCI 402. Management in Dietetic Practice. 3 Credits.**

Examines management roles and functions in dietetic practice with an emphasis on a system's approach to management. Focuses on leadership skills and tools needed for operational change and quality improvement.

P: Nut Sci 312 or conc enroll.

Spring.

**NUT SCI 421. Community Nutrition. 4 Credits.**

Application of nutrition concepts to the public health/community nutrition setting; overview of community nutrition programs and related legislation.

P: jr st and Nut Sci 300 with at least a C grade.

Fall Only.

**NUT SCI 427. Advanced Nutrition and Metabolism. 3 Credits.**

Examination of non-energy yielding biochemical pathways and associated pathophysiologies. Emphasis is placed on the role of trace-minerals, vitamins and phytochemicals in these pathways.

P: Nut Sci 300 with at least a C grade; REC: Nut Sci 327.

Spring.

**NUT SCI 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**NUT SCI 485. Medical Nutrition Therapy I. 3 Credits.**

Theory, principles and application of communication and counseling as applied to behavior changes; principles and application of nutrition assessment and the nutrition care plan process.

P: Psych 102 or Hum Dev 210 with at least a C grade; and Nut Sci 300 with at least a C grade.

Fall Only.

**NUT SCI 486. Medical Nutrition Therapy II. 3 Credits.**

Principles and applications of nutrition therapy in the management of common and complex diseases; information about health care systems including managed care and reimbursement issues.

P: Nut Sci 485 with a least a C grade.

Spring.

**NUT SCI 487. Nutritional Science Seminar. 1 Credit.**

This course reviews issues affecting food and nutrition professionals and helps prepare students for career goals. Students will use skills in critical thinking, oral and written communication and self-assessment to prepare a resume and apply to a dietetic internship, graduate school or employment.

P: sr st and enr in Nut Sci/Dietetics emphasis.

Fall Only.

**NUT SCI 495. Research in Nutritional Science. 1-5 Credits.**

Work closely with a faculty member to plan, perform, evaluate and report on laboratory research in nutritional science or a related field.

P: Hum Biol 207 or Env Sci 207 and approval by faculty mentor.

Fall and Spring.

**NUT SCI 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**NUT SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**NUT SCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Philosophy (PHILOS)

## Courses

### **PHILOS 101. Introduction to Philosophy. 3 Credits.**

This course will acquaint you with some of the more interesting topics and methodologies in Philosophy. Our principal focus is to learn to identify and evaluate philosophical arguments, which we will do by considering topics that circle our endeavor to grasp and understand ultimate reality. Here are some of the questions we will ask: Does the mind exist apart from the body? Do we have free Will? Is life inherently meaningful? Is moral value something that humans alone possess, or is it present in the world around us? Is there such a thing as a 'good' human life?

Fall and Spring.

### **PHILOS 102. Contemporary Ethical Issues. 3 Credits.**

Ethics is one branch of philosophy, and philosophy is an attempt to understand the most basic concepts and theories that people use to understand the nature of the world, human beings, and human beings' place in the world. The main concerns of ethics are the nature of good and evil and the basis of right and wrong conduct. It is easy to form a quick belief about what a good life is, or about whether abortion is right or wrong, whether capital punishment is justified, and so on. Someone may even have some reasons for his/her beliefs on such issues. But in ethics that is not enough. Ethics asks whether the reasons are really good ones, ones that truly justify the belief in question, ones that can truly withstand an objective critical examination, ones that truly fit in well with a solid system of ethical beliefs. This course deals with some of the most important questions of ethics, and tries to answer them on the basis of the highest standards of reasoning. We will first examine a number of different ethical theories. After we have studied ethical theories, we will go on to consider particular ethical issues. These issues will also be critically and systematically examined. Such issues may include abortion, genetic engineering, euthanasia, the death penalty, freedom of speech, war and terrorism, and animal rights.

### **PHILOS 103. Logic and Reasoning. 3 Credits.**

This course introduces the students to the basic concepts and skills of logical reasoning which is central to critical thinking. With the objective of constructing good arguments for successful persuasion and defending ourselves against the illogical and fallacious appeals that bombard us daily, this course examines formal and informal fallacies, rules of syllogisms, and propositional logic and applies these logical tools to samples of real-life situations.

Fall and Spring.

### **PHILOS 105. Justice and Citizenship in the Modern World. 3 Credits.**

This course is a critical examination of some of the most fundamental issues facing citizens in the modern world. Topics covered may include the nature of justice, the distribution of wealth and power, the legitimacy of state authority, the nature of extent of political liberty, the obligations of the citizen to the state, and the proper balance of private rights and public goods in the community.

Spring.

### **PHILOS 198. First Year Seminar. 3 Credits.**

First Year Seminar

Reserved for New Incoming Freshman

Fall Only.

### **PHILOS 208. Biomedical Ethics. 3 Credits.**

Implication of the social and natural science for human values; study of the history of the distinction between fact and value in segments of human life such as politics, law and medical technology.

Fall Only.

### **PHILOS 212. Philosophy, Religion, and Science. 3 Credits.**

This course considers the relationship between science and religious beliefs, explores the value of knowledge, and asks if science needs a moral vision. After considering these theoretical questions, it then examines issues like religion and evolution, religion and natural laws, the mind-body relationship, genetic engineering, human experimentation, cloning, and euthanasia. Students will read texts from thinkers like Francis Bacon, Charles Darwin, Stephen Jay Gould, Richard Dawkins and John Paul II.

Spring Even.

### **PHILOS 213. Ancient Philosophy. 3 Credits.**

The primary objective of this course is to introduce the student to the writings and arguments of the major ancient Greek philosophers. Accordingly, the course is both philosophical and historical. It is philosophical in the sense that we will try to understand the major components of the philosophical theories of the most influential thinkers of ancient Greece as well as examine the reasoning through which they arrived at these theories. It is historical in the sense that we will look at the development and growth of philosophical thought in ancient Greece and, as much as possible, situate these thinkers in their historical context. The course will cover five historical figures or groups of figures in ancient Greek philosophy: 1) Pre-Socratic Philosophers, 2) Socrates, 3) Plato, 4) Aristotle, and 5) Hellenistic Philosophers.

P: none; REC: Philos 101 or 102.

Fall Only.

### **PHILOS 214. Early Modern Philosophy. 3 Credits.**

This course explores the philosophical ideas that served as the catalyst for the radical and moderate enlightenment, spanning roughly from the early 17th century to mid-18th century. Topics discussed include the nature of human identity, the physical and mental world, God, causation, free will, knowledge, and skepticism. We will read selections from Rene Descartes, Nicolas Malebranche, Benedict Spinoza, Gottfried Leibniz, John Locke, George Berkeley, and David Hume. This course will emphasize the critical reading, thinking, and writing skills indicative of the Philosophy discipline.

P: none; REC: Philos 101..

Spring.

**PHILOS 216. Introduction to Asian Philosophy. 3 Credits.**

The objectives of this course are (1) to help the students to acquire a basic knowledge of the metaphysics, ethics, and natural philosophy of three major Asian philosophies: Buddhism, Confucianism, and Daoism, (2) to enable the student to acquire a deeper understanding of the living values and ways of life characteristic of a major portion of the world's non-Western population, and (3) to aid students in the development of critical thinking and writing skills. Students will gain proficiency in (a) reading philosophical texts closely, (b) critically analyzing arguments, and (c) formulating their own opinions both verbally and in writing. This course is divided into three parts. The first part is on Buddhism, the second part on Confucianism, and the third part on Daoism.

Spring.

**PHILOS 217. Introduction to the Philosophy of Religion. 3 Credits.**

This course introduces students to the exciting field of the Philosophy of Religion. After exploring basic questions in metaphysics and epistemology, the course will consider topics like God's existence and attributes, problems of evil, religious experience, love, miracles, hell, purgatory, heaven and contemporary atheism. Students will understand controversies about these topics and will be encouraged to develop their own ideas about them.

Fall Only.

**PHILOS 220. Environmental Ethics. 3 Credits.**

This course aims to raise our awareness of deep philosophical questions about the nature and location of value and how this may alter our understanding of our ethical relation to the environment. You should expect to become more confident in your ability to identify, articulate, and defend your own opinions on ethical issues and to sharpen your critical thinking skills in the process. Topics discussed include whether human interests are ethically dominant, what defines the outer boundary of the ethical sphere, how to best decide between competing ethical interests, whether pragmatism is a value, and how technology informs the discussion.

Fall Only.

**PHILOS 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**PHILOS 301. Ethical Theory. 3 Credits.**

This course aims at acquainting students with a number of major ethical theories in the Western philosophical tradition. Students will read classical and contemporary writings on a number of major ethical topics such as pleasure, egoism, relativism, happiness, moral responsibility, utilitarianism, deontological ethics, and virtue ethics. In addition to the reading, students will focus on reconstructing and critically reflecting the arguments on the issues on these topics in class discussions and writings.

P: none; REC: jr st and one philos cse.

Spring Even.

**PHILOS 308. Philosophy and the Sciences. 3 Credits.**

Science is often thought to be the ultimate form of objectivity and rational inquiry. But what is 'science'? Is there one scientific method? What reasons do we have to regard it as more truth-conducive than other routes to knowledge? Is there such a thing as a truly unbiased experiment? Do we mean to say that our scientific theories are true? What kind of justification would be required for such claims? And what about the many strange entities of science? Do electrons exist, or are they just useful fictions to fill holes in scientific theories? Are laws of nature real entities?

P: none; REC: Philos 214.

Fall Even.

**PHILOS 309. Religion and Medieval Philosophy. 3 Credits.**

This course examines main themes in medieval philosophy. After examining the relationship between faith and reason, students will explore the nature of the soul, knowledge, the afterlife, God's existence, the ontology of universals and other important philosophical topics. Readings will include selections from the work of Christian, Islamic and Jewish thinkers like Anselm, Thomas Aquinas, Bonaventure, Duns Scotus, William of Ockham, Maimonides, Averroes and Avicenna.

P: none; REC: Philos 213 and 214.

Spring Odd.

**PHILOS 323. Modern Philosophy. 3 Credits.**

Course topics vary. In one iteration, this course will work its way through seminal thinkers in nineteenth century philosophy including (though not limited to) Hegel, Marx and Nietzsche. Our aim will be to both connect these thinkers to earlier ideas and trends in Philosophy and to see how they extend such ideas in radically different ways. In another iteration, this course will delve into a somewhat later historical movement in Philosophy - the existentialists. We will begin with the early influence of Russian authors before moving through later thinkers such as Heidegger, Camus and Sartre. The course will include literary and philosophical readings.

P: none; REC: Philos 213 and 214.

Fall Odd.

**PHILOS 324. Contemporary Philosophy. 3 Credits.**

Current philosophical movements in Europe and America, such as phenomenology, existentialism, analytic philosophy, intuitionism, pragmatism and Marxism.

Spring Odd.

**PHILOS 326. Philosophy, Politics and Law. 3 Credits.**

The primary objective of this course is to acquaint students with the fundamental concepts, issues, theories, and arguments of political and legal philosophy. Students will read selections from classical and contemporary philosophers on fundamental political and legal issues. We will consider such controversial topics as surrogate motherhood, disability, affirmative action, and same-sex marriage. The emphasis throughout will be on the understanding and critically evaluating the argumentation of the philosophers we will studying. Students will be required to formulate their own arguments on important issues, but their argumentation must be informed with the political and legal theories found in the text.

P: none; REC: philos cse.

Fall Even.

**PHILOS 351. Happiness and the Good Life. 3 Credits.**

This course examines the concept of a happy life through a study of the Asian philosophies of Buddhism, Confucianism, Daoism. We will be reading primary texts and secondary philosophical texts, and we will watch and examine influential movies and videos on the topic.

P: None REC: Philos 102.

**PHILOS 401. Plato and Aristotle. 3 Credits.**

This course is critical investigation of the first two comprehensive, philosophical systems of Western civilization. Plato and Aristotle each proposed and argued for a full metaphysics, epistemology, ethics, political philosophy, and philosophy of art. In this course students will be engaged in an in-depth study of their major works.

REC: Philos 213

Fall Odd.

**PHILOS 403. Topics in Philosophy. 3 Credits.**

Course topics vary. This will be an in-depth study of a current topic or a figure in philosophy and/or an area of research for one of our faculty members. The aim will be to include students in live and contemporary philosophical literature and debates.

P: upper level cse in Philos.

Fall Even.

**PHILOS 420. Metaphysics. 3 Credits.**

Metaphysics is the study of Being and the various forms it takes in this world and possibly beyond. It comprises some of the oldest and most difficult questions in Philosophy. In this class we will investigate some of its major historical and contemporary topics, which may include the status of Platonic Forms, the reality and identity of ordinary particulars, what kind of thing causality is, what makes states of affairs possible or necessary, what are space and time, and whether any progress can be made in such endeavors (the question of anti-realism). In a special iteration of this course we look specifically and in great depth at the question of Free Will. We rely entirely on primary-source readings to explore the challenge of free will, the plausibility of compatibilism, and tenability of hard determinism. Along the way, we will discuss how the free will debate informs our thinking about God's foreknowledge, criminal punishment, love and friendship, possible worlds, and even time-travel.

P: Philos 213 or Philos 214 REC: Philos 309 or Philos 324

Spring Even.

**PHILOS 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**PHILOS 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**PHILOS 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**PHILOS 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Physical Education (PHY ED)



## Courses

### **PHY ED 121. Personal Conditioning. 1 Credit.**

Principles of exercise physiology as they relate to muscular and organic stress from participation in calisthenics and exercise with light apparatus. Develops conditioning programs appropriate for life-long fitness.  
Fall and Spring.

### **PHY ED 124. Conditioning Through Running. 1 Credit.**

Designed for the individual who prefers a program of vigorous exercise to one of primary recreational nature. Emphasizes cardiovascular benefits of running and the practical application of various types of running to improve physical fitness.  
Fall and Spring.

### **PHY ED 145. Golf I. 1 Credit.**

The fundamental skills of grip, stance and stroking with irons and woods; history, equipment, rules, etiquette, safety, and strategy necessary for responsible play.  
Fall Only.

### **PHY ED 148. Karate I. 1 Credit.**

Basic techniques of striking and kicking and their defenses as used in karate; the history, philosophy and traditions of karate.  
Fall and Spring.

### **PHY ED 154. Tennis I. 1 Credit.**

Basic skills and techniques in tennis; forehand, backhand, flat serve, volley, lob, smash, footwork, singles and doubles positioning and strategy, regular and no-add scoring, U.S.T.A. rules, care and selection of equipment.

### **PHY ED 208. Scuba. 2 Credits.**

The nature and use of equipment peculiar to skin and scuba diving; basic diving skills, functional diving, physiological aspects of respiration, the physics of diving, the physiological and environmental hazards of diving, and proper first aid procedures for emergencies. Certification by PADI may be earned.  
Fall and Spring.

### **PHY ED 248. Karate II. 1 Credit.**

Builds upon basic skills and physical and mental development of beginning karate. Provides opportunity to improve students' karate rank by continuing instruction in offensive and defensive techniques in conjunction with voluntary competition.  
P: Phy Ed 148.  
Fall and Spring.

### **PHY ED 268. Karate III. 1 Credit.**

Advancing into intermediate phases of the martial arts perfecting technique, form and effectiveness using kicking, blocking, punching, self defense & form techniques. Explore the self defense of Eskirma.  
P: Phy Ed 148 and 248, or equivalent as approved by inst.  
Fall and Spring.

## Physics (PHYSICS)

### Courses

#### **PHYSICS 103. Fundamentals of Physics I. 5 Credits.**

A non-calculus physics sequence covering fundamentals of mechanics, energy, power, thermodynamics and sound. Applications to the areas of biology, chemistry, the earth science and technology. This is a blended, or hybrid, course. It includes both online and face-to-face components. Full credit will not be granted for both PHYSICS 103 and PHYSICS 201.  
P: Math 104 with at least a C grade or Math Placement of Math 202 or greater.  
Fall Only.

#### **PHYSICS 104. Fundamentals of Physics II. 5 Credits.**

A non-calculus physics sequence covering fundamentals of electricity and magnetism, electronics, light, atomic and nuclear structure and relativity. Applications to the areas of biology, chemistry, the earth science and technology. This is a blended, or hybrid, course. It includes both online and face-to-face components. Full credit will not be granted for both PHYSICS 104 and PHYSICS 202.  
P: Physics 103 with at least a C grade.  
Spring.

#### **PHYSICS 141. Astronomy. 3 Credits.**

A study of the solar system, stars, galaxies and universe.  
Fall and Spring.

#### **PHYSICS 180. Concepts of Physics. 3 Credits.**

Survey of physics, including motion, forces, momentum, energy, solids, liquids, gases, sound, heat, electricity, magnetism, light, atomic and nuclear physics. Designed for non science majors. Full credit will not be granted for both Physics 180 and 103, 104, 201 or 202.  
Fall Only.

**PHYSICS 181. Concepts of Physics Laboratory. 1 Credit.**

Laboratory course to accompany Physics 180. Full credit will not be granted for both Physics 181 and 103, 104, 201 or 202.

P: Physics 180 or conc enr.

Fall Only.

**PHYSICS 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**PHYSICS 201. Principles of Physics I. 5 Credits.**

A calculus physics sequence for students of science and engineering. Includes fundamentals of mechanics, Newton's laws, momentum, energy, fluid statics and dynamics; temperature, heat transfer, thermodynamics; vibrations, waves and sound; electric forces and fields, DC and AC circuits, magnetism; atomic structure, semiconductors; electromagnetic waves, light; relativity, quantum mechanics, nuclear physics and elementary particles.

P: Math 202 with at least a C grade.

Fall Only.

**PHYSICS 202. Principles of Physics II. 5 Credits.**

A calculus physics sequence for students of science and engineering. Includes fundamentals of mechanics, Newton's laws, momentum, energy, fluid statics and dynamics; temperature, heat transfer, thermodynamics; vibrations, waves and sound; electric forces and fields, DC and AC circuits, magnetism; atomic structure, semiconductors; electromagnetic waves, light; relativity, quantum mechanics, nuclear physics and elementary particles.

P: Physics 201 with at least a C grade and Math 203 with at least a C grade.

Spring.

**PHYSICS 310. Modern Physics. 3 Credits.**

Modern physics has opened the door to exciting areas of exploration: very fast, very small, and very large. This course first examines the fast and small (relativity and elementary particle physics) then applies them to the large scale field of cosmology.

Spring.

**PHYSICS 320. Thermodynamics and Kinetics. 3 Credits.**

Temperature, heat and work, thermodynamic properties of gases, solids and solutions; homogeneous and heterogeneous equilibria; thermodynamics of electrochemical cells; statistical thermodynamics; calculation of thermodynamic properties; chemical kinetics.

P: Chem 212 and 214 with at least a C grade and Physics 202 with at least a C grade and Math 203 with at least a C grade.

Fall Only.

**PHYSICS 321. Structure of Matter. 3 Credits.**

Integrated approach to the concepts of physical chemistry and modern physics: introduction to quantum theory, symmetry, atomic and molecular structure, spectroscopy, X-rays, properties of gases, liquids and solids.

P: Chem 212 and 214 with at least a C grade and Physics 202 with at least a C grade and Math 203 with at least a C grade.

Spring.

**PHYSICS 322. Thermodynamics and Kinetics Laboratory. 1 Credit.**

Laboratory course to accompany Chem 320.

P: Chem 320 or conc enr or Physics 320 or conc enr.; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Fall Only.

**PHYSICS 323. Structure of Matter Laboratory. 1 Credit.**

Laboratory course to accompany Chem 321.

P: Chem 321 or conc enr or Physics 321 or conc enr.; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr.

Spring.

**PHYSICS 404. Electricity and Magnetism. 3 Credits.**

An advanced approach to electrical and magnetic phenomena; waveguides, electrical energy generation and transmission, Maxwell's equations and electromagnetic waves, electric and magnetic properties of matter.

P: Physics 202 with at least a C grade and Math 209 with at least a C grade.

Fall Even.

**PHYSICS 415. Solar and Alternate Energy Systems. 3 Credits.**

Study of alternate energy systems which may be the important energy sources in the future, such as solar, wind, biomass, fusion, ocean thermal, fuel cells and magneto hydrodynamics.

P: Physics 104 with at least a C grade or 202 with at least a C grade.

Spring Even.

**PHYSICS 417. Nuclear Physics and Radiochemistry. 3 Credits.**

Properties and reactions of atomic nuclei; application of the properties of radioactive nuclei to the solution of chemical, physical, biological and environmental problems.

P: Chem 212 and 214 with at least a C grade and Physics 202 with at least a C grade: REC: Chem 321.

Fall Odd.

**PHYSICS 420. Advanced Physics Laboratory. 1 Credit.**

Upper-level experiments in Nuclear Physics, Optics and the experimental determination of fundamental physical constants.

P: Math 203 with at least a C grade, Physics 310 with at least a C grade.

Fall Odd.

**PHYSICS 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**PHYSICS 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

## Political Science (POL SCI)

### Courses

**POL SCI 100. Global Politics and Society. 3 Credits.**

The course explores political power and human connections on a global scale. The course covers concepts and ideas on the interaction of governments, organizations, and peoples across regions, cultures, and communities. The course helps students develop a global outlook on their future prospects as citizens and professionals in a globalized world.

Fall and Spring.

**POL SCI 101. American Government and Politics. 3 Credits.**

The institutions and political processes of American National government and the nature of political analysis; the Constitution, ideological and cultural bases of American politics; the role of political parties, elections and interest groups; policy-making processes in the Congress, the presidency and courts.

Fall and Spring.

**POL SCI 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**POL SCI 202. Introduction to Public Policy. 3 Credits.**

Contemporary issues in American public policy. Substantive public policies such as those dealing with the American economy, energy, crime, environmental quality, the welfare state and social programs. Models of the policy process are also considered.

Fall and Spring.

**POL SCI 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**POL SCI 301. Environmental Politics and Policy. 3 Credits.**

U.S. and global environmental problems and their political implications. Emphasizes U.S. environmental politics, issues and controversies in environmental protection policy, the performance of governmental institution in response to environmental challenges, and strategies for environmental improvement.

P: Pol Sci 101 or 202 or Pu En Af 202.

Fall and Spring.

**POL SCI 305. Urban Politics and Policy. 3 Credits.**

Structures and operations of city governments and their responses to policy issues such as education, employment, social welfare, housing, transportation, migration, racial discrimination, urban sprawl and social inequality.

P: jr st; and Pol Sci 101 or Ur Re St 100.

Fall Only.

**POL SCI 306. Regulatory Policy and Administration. 3 Credits.**

The origins, purposes and operation of regulatory agencies and the programs in the U.S.: theories of regulation, issues and controversies in regulatory policy, and decision-making in such areas as economic regulation, public health, consumer protection workplace safety and environmental quality.

P: Pol Sci 101 or 202 or Pu En Af 202.

Spring.

**POL SCI 310. The American Presidency. 3 Credits.**

The president's role in public policy-making. Topics include the history of the presidency, presidential elections, the nature and use of presidential power, the organization and operation of the executive office, the presidential relationship with Congress and the bureaucracy, and presidential leadership.

P: Pol Sci 101.

Fall Even.

**POL SCI 312. Community Politics. 3 Credits.**

This course emphasizes the historical dimensions of community politics in the U.S. It also explores the role of grass roots social movements in shaping local politics.

P: none; REC: Pol Sci 101.

Spring.

**POL SCI 314. Administrative Law. 3 Credits.**

Administrative law in the American federal (intergovernmental) system: connections between administrative law issues and issues of public policy; and legal dimensions of administrative problems.

P: Pol Sci 101 or Pu En Af 215.

Fall Only.

**POL SCI 316. Congress: Politics and Policy. 3 Credits.**

The role of Congress in American politics and policymaking, including the history of Congress, elections, representation, committees, political parties and leadership, rules and procedures, interest groups and lobbying, presidential-congressional relations, and the role of Congress in both domestic and foreign policy decisions.

P: Pol Sci 101.

Spring.

**POL SCI 318. Political Behavior. 3 Credits.**

An introduction to political behavior that approaches the topics of elections, public opinion, voting behavior, mass media, and political socialization through the application of quantitative methods of analysis.

P: Pol Sci 100 or 101.

Fall Only.

**POL SCI 320. Constitutional Law. 3 Credits.**

The course emphasizes the history of constitutional law in the United States through an analysis of leading Supreme Court cases that deal with government authority as well as citizen rights and civil liberties. Special attention is given to the political and historical context of major cases and the implications for public policy.

P: Pol Sci 101.

Fall Only.

**POL SCI 340. Political Theory. 3 Credits.**

The foundations of Western political theory from the Greek polis to the 20th century. Discusses and analyzes leading political theorists in their historical contexts and in terms of their basic ideas and concepts. Attaches the study of politics to the history of Western political thought and practice.

P: Pol Sci 100 or 101.

Fall Only.

**POL SCI 349. American Political Thought. 3 Credits.**

The history and development of American political thought, with attention to the thinkers and themes influential to controversies, ideologies, and institutions in American politics.

P: Pol Sci 101

Spring.

**POL SCI 351. Comparative Politics. 3 Credits.**

The course examines fundamental concepts in the study of the processes and outcomes of politics in a variety of country settings. It illustrates the rich diversity of political life, shows available institutional alternatives, explains differences in political regimes and outcomes, and communicates the importance of global political and economic changes.

P: Pol Sci 100 or 101.

Fall and Spring.

**POL SCI 353. Politics of Developing Areas. 3 Credits.**

This course examines contemporary problems of comparative political development and changing patterns of political economy in developing areas. The main focus is on the prospects for democracy and economic prosperity after the Cold War.

P: Pol Sci 100 or 101.

Spring Odd.

**POL SCI 360. International Relations. 3 Credits.**

The course focuses on competing explanations for interaction between state and non-state actors, and analyzes recent changes in international organizations and the international political economy.

P: Pol Sci 100 or 101.

Fall Only.

**POL SCI 370. Foreign and Defense Policies. 3 Credits.**

Explores the institutions and political processes related to U.S. foreign and defense policies, including the international challenges facing the United States, the nation's policy goals and their evolution over time, the strategies used to achieve those goals, and conflicts over policy implementation and its success.

Spring.

**POL SCI 380. Global Environmental Politics and Policy. 3 Credits.**

This course explores the transnational and international context of environmental politics and policy. Particular focus areas include the causes of environmental harm, the meaning of sustainability, and the relevance of new environmental actors on the global stage.

P: jr st. REC: Pol Sci 100

Spring.

**POL SCI 406. State and Local Government. 3 Credits.**

Policy and institutional comparisons across states and local governments through hands-on research, placing a special focus on Wisconsin's local governments.

P: Pol Sci 101 or Pu En Af 215.

Fall Only.

**POL SCI 408. Public Policy Analysis. 3 Credits.**

An introduction to public policy analysis and to the policy-making process, primarily in American government. The course emphasizes the political aspects of policy analysis, models and methods for rational design of public policies, and applications of policy studies to particular public problems.

P: Pol Sci 101 or 202 or Pu En Af 202.

Fall and Spring.

**POL SCI 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**POL SCI 480. Senior Seminar/Capstone in Political Science. 3 Credits.**

This course is designed to be taken during the last semester of one's UW-Green Bay education to "cap off" training in political science and related fields. In this course, students will complete either a research paper that approaches the standards of graduate school, and thus professional norms of research and publishing, or a significant service learning project designed to put theoretical knowledge into practice. As a result, the course has two major objectives that are organized around important disciplinary research objectives: 1) to practice standard political science research methods and 2) to conduct applied research and activities in political science.

P: Completion of three UL courses required for the major.

Fall and Spring.

**POL SCI 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**POL SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**POL SCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Psychology (PSYCH)

### Courses

**PSYCH 102. Introduction to Psychology. 3 Credits.**

Understanding of behavior from psychophysiological, cognitive, social and clinical perspectives; important issues, methods and findings in the study of psychological process.

Fall and Spring.

**PSYCH 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**PSYCH 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**PSYCH 300. Research Methods in Psychology. 4 Credits.**

Experimental methods in psychological research; designing and drawing conclusions from experimental research; critiques of research reports; individual and group laboratory projects.

P: PSYCH 102; COMM SCI 205 or MATH 260 or BUS ADM 216. REC: COMM SCI 205.

Fall and Spring.

**PSYCH 305. Psychology of Stereotyping and Prejudice. 3 Credits.**

This course provides an overview of the causes and effects of stereotyping and prejudice from a psychological perspective. It also explores when stereotypes are used, how they are measured, and how they can be reduced.

P: Psych 102

Spring.

**PSYCH 308. Physiological Psychology. 3 Credits.**

Introduction to the biological bases of behavior. Basic sensory, motor, and brain mechanisms are described in reference to normal and abnormal behaviors. Drugs and hormone effects on infants and adults are also discussed.

P: Psych 102 AND Hum Biol 102 or Biology 201/202

Fall and Spring.

**PSYCH 310. Drugs and Behavior. 3 Credits.**

Psychoactive drugs will be studied regarding their effects on the brain, behaviors and society.

P: Psych 102 AND Hum Biol 102 or Biology 201/202

Spring.

**PSYCH 330. Social Psychology. 3 Credits.**

An exploration of theory, method, and empirical results regarding individual behavior in groups. Major topics include social cognition, aggression, helping, and attraction.

P: Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 302.

Fall and Spring.

**PSYCH 350. Psychology and Culture. 3 Credits.**

A cross-cultural examination of core psychological processes and areas of study, such as cognition, emotion, development, and personality.

P: Sophomore status; Psych 102

Fall Only.

**PSYCH 380. Conservation Psychology. 3 Credits.**

Conservation Psych seeks to understand and motivate humans to practice sustainable behavior.

P: None REC: Psych 102

Fall Only.

**PSYCH 390. Environmental Psychology. 3 Credits.**

Human-environment relationships; examines ways in which the physical environment influences human behavior.

P: Psych 102.

Spring.

**PSYCH 401. Psychology of Women. 3 Credits.**

The psychology of women examines traditional and feminist approaches to women in psychological theory and research as frameworks for understanding women's development and experience in family, academic, work, and relationship roles. The interacting influences of biology, socialization, and cultural context are considered.

P: Psych 102.

Fall and Spring.

**PSYCH 415. Organizational and Personnel Psychology. 3 Credits.**

Examines the human side of organizations from a scientific framework. Topics include job analysis, performance appraisal, employee selection, training, motivation, job satisfaction, work teams, leadership, and organization development.

P: jr. st.; Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 302.

Fall Only.

**PSYCH 417. Psychology of Cognitive Processes. 3 Credits.**

Contemporary theory and research on thinking processes; how people understand and interpret events around them; attention, recognition, thinking, memory, language, imagery and problem-solving.

P: jr. st.; Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 302

Fall and Spring.

**PSYCH 420. Psychological Testing. 3 Credits.**

An overview of the uses and underlying psychometric concepts of psychological tests. Examines selected tests in the areas of intelligence, personality, achievement, and interest assessment. Discusses controversial social, legal, ethical, and cultural issues related to testing.

P: jr. st  
Fall Only.

**PSYCH 424. Psychology of Emotion. 3 Credits.**

This is an advanced undergraduate psychology course designed to expose students to the science of emotion. Students will become acquainted with the many ways in which biological, cultural, cognitive, and other factors can contribute to our emotions.

P: Psych 102 and Psych 300 or Hum Dev 302.  
Fall Only.

**PSYCH 429. Theories of Personality. 3 Credits.**

Major ideas about the organization, function, change and development of human personality as discussed by a variety of personality theorists.

P: Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 302.  
Fall and Spring.

**PSYCH 430. History and Systems of Psychology. 3 Credits.**

Major schools, figures, trends and systems of thought in the field of psychology; shifts in the conceptualization of the problems, phenomena, methods and tasks for psychology.

P: Psych 102 and 300 and one upper level Psych course and jr st.

**PSYCH 435. Abnormal Psychology. 3 Credits.**

Major psychological, biological, and sociocultural models of abnormal behavior, including problems of childhood, adolescence, and aging. Contextual issues are emphasized, including the influence of culture, social class, and gender on diagnosis and treatment.

P: Psych 102  
Fall and Spring.

**PSYCH 438. Counseling and Psychotherapy. 3 Credits.**

This class provides an introduction to many contemporary approaches to counseling and their theoretical and research base. It also addresses issues relevant to professional practice in the field, along with the roles of development, values, ethics, and context/culture in the counseling process.

P: Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 302.  
Fall and Spring.

**PSYCH 440. Multicultural Counseling and Mental Health. 3 Credits.**

This course involves an exploration of cultural groups, beliefs, and practices within the U.S. and focuses on ways that culture, race, ethnicity, and associated concepts, such as oppression and privilege, influence definitions and treatments of mental illness.

P: Jr st; Psych 102 AND Psych 435 or 438.  
Spring.

**PSYCH 450. Health Psychology. 3 Credits.**

This course examines how health, illness, and medicine can be studied from a psychological perspective. Topics include coping with stress, leading a healthy lifestyle, factors influencing smoking, alcohol use, and exercise, the patient-practitioner interaction, and chronic and terminal illness.

P: jr. st.; Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 302.  
Spring.

**PSYCH 460. Clinical Child Psychology. 3 Credits.**

An in-depth analysis of psychiatric disorders that occur during childhood and adolescence.

P: Psych 102 AND Psych 435 or 438.  
Spring.

**PSYCH 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.  
Fall and Spring.

**PSYCH 494. Senior Capstone in Psychology. 3 Credits.**

Exploration of a particular topic pertaining to psychology from an interdisciplinary perspective. The topic will vary from semester to semester.

P: Psych 300; senior status REC: To be taken in the last semester before you graduate.  
Fall and Spring.

**PSYCH 495. Teaching Assistantship. 1-6 Credits.**

Students will learn the different components related to successful instruction. This will include theoretical perspective, empirical research, and pedagogical techniques relating to teaching that they can apply to a broad array of future teaching and learning experiences.

P: Psych 102 or Hum Dev 210, and 3.0 GPA in Human Dev/Psych, and consent of inst; REC: sr st.  
Fall and Spring.

**PSYCH 496. Research Assistantship. 1-6 Credits.**

Students will assist faculty in conducting research. Responsibilities may include literature reviews, library investigations, questionnaire development, recruitment and interviewing of research participants, data collection, management of research studies, data entry, and some statistical analysis.

P: Psych 102 and consent of instr. REC: Psych 300 or Comm Sci 205.

Fall and Spring.

**PSYCH 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st and gpa > or = 3.00.

Fall and Spring.

**PSYCH 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**PSYCH 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Public & Environmental Affairs (PU EN AF)

### Courses

**PU EN AF 102. Environment and Society. 3 Credits.**

An examination of the relationship between humans and the biophysical environment at local, national, and global levels. Emphasis is given to the impact of personal attitudes, cultural beliefs, economics, politics, technology and available resources on environmental problems and solutions.

Fall and Spring.

**PU EN AF 198. First Year Seminar. 3 Credits.**

This First Year Seminar offers student a chance to engage in a small class setting.

Reserved for New Incoming Freshman.

**PU EN AF 202. Introduction to Public Policy. 3 Credits.**

Contemporary issues in American public policy. Substantive public policies such as those dealing with the American economy, energy, crime, environmental quality, the welfare state and social programs. Models of the policy process are also considered.

Fall and Spring.

**PU EN AF 215. Introduction to Public Administration. 3 Credits.**

Using case studies, this course explores the principal tools and methods for conducting public affairs, the external and internal elements affecting public agencies, and the role of these elements and the human dimension in creating and implementing public policies and programs.

P: Pol Sci 101 or 202 or Pu En Af 202.

Fall Only.

**PU EN AF 250. Introduction to Geographic Information Systems (GIS). 2 Credits.**

Computerized Geographic Information Systems (GIS) represent revolutionary software advancement that allow sophisticated information management, analysis and mapping with computer systems. In this class you will learn basic principles for creation and analysis of digital maps, cartographic concepts, and experience an intensive introduction to GIS software (e.g., ArcGIS).

Fall and Spring.

**PU EN AF 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**PU EN AF 301. Environmental Politics and Policy. 3 Credits.**

U.S. and global environmental problems and their political implications. Emphasizes U.S. environmental politics, issues and controversies in environmental protection policy, the performance of governmental institution in response to environmental challenges, and strategies for environmental improvement.

P: Pol Sci 101 or 202 or Pu En Af 202.

Fall and Spring.



**PU EN AF 305. Natural Resources Economic Policy. 3 Credits.**

Acquaints the student with policies leading to arrangements for the development, management, and use of natural resources. Emphasizes the longer time horizon required for the conservation of resources and a general concern for the quality of ecosystems.

P: Econ 203.

Fall Only.

**PU EN AF 306. Regulatory Policy and Administration. 3 Credits.**

The origins, purposes and operation of regulatory agencies and the programs in the U.S.: theories of regulation, issues and controversies in regulatory policy, and decision-making in such areas as economic regulation, public health, consumer protection workplace safety and environmental quality.

P: Pol Sci 101 or 202 or Pu En Af 202.

Spring.

**PU EN AF 314. Administrative Law. 3 Credits.**

Administrative law in the American federal (intergovernmental) system: connections between administrative law issues and issues of public policy; and legal dimensions of administrative problems.

P: Pol Sci 101 or Pu En Af 215.

Fall Only.

**PU EN AF 315. Public and Non-Profit Management. 3 Credits.**

Using case studies and applied learning techniques, this course explores management in public and nonprofit organizations from the perspective of a manager. Management approaches, techniques and concepts and theoretical frameworks are covered.

P: Pol Sci 101 or 202 or Pu En Af 202; REC: Pu En Af 215.

Fall and Spring.

**PU EN AF 321. Coastal Resources Policy and Management. 3 Credits.**

The importance of coastal resources, with an emphasis on Wisconsin's coasts. With field trips to local lakes and Lake Superior, we will study issues of development, overuse, risk, and their consequent environmental, aesthetic and economic impacts.

Fall Only.

**PU EN AF 322. Environmental Planning. 3 Credits.**

History, processes, and impacts of environmental planning in the United States. Action forcing legislation and its effect on environmental issues and processes. Emphasizes environmental planning and implementation at the national, state, and local levels.

P: Pol Sci 101 or 202 or Pu En Af 202; REC: Env Sci 102.

Fall and Spring.

**PU EN AF 323. Sustainable Land Use. 3 Credits.**

Various forms of public land-use controls in planning and administration, addressing "what, why and how" aspects of land-use controls. Smart Growth, Environmental Impact Analysis, and other comprehensive planning models studied.

P: jr st.

Spring.

**PU EN AF 324. Transitioning to Sustainable Communities. 3 Credits.**

Creating resilient communities based on local inputs/outputs to support jobs, housing, transportation, schools, agriculture and city services.

Fall Only.

**PU EN AF 335. Principles and Practices of Emergency Management. 3 Credits.**

The philosophy of comprehensive Emergency Management will be discussed with the four attendant steps, which include mitigation, preparedness, response and recover. In addition, legal issues involving state and Federal law effecting emergency operations will be studied.

REC: Pu En Af 315.

**PU EN AF 336. Strategic Emergency Preparedness, Planning and Implementation. 3 Credits.**

Strategic planning and budgeting is a very important component in emergency planning and mitigation. Learn how to acquire and allocate resources, plan for crises with or without warning, and implement preparedness programs.

**PU EN AF 337. Disaster Response Operations and Management. 3 Credits.**

Examine the roles and responsibilities of the players in a crisis event. Explore the various problems associated with response operations such as: inadequate preparedness measurers, safety and site security, politics, and record keeping.

**PU EN AF 338. Disaster Recovery. 3 Credits.**

Examine disaster recovery in isolation. Explore the short and long term effects of disasters, as well as, the process of putting families, businesses and communities back together. You will learn the importance of reconstruction and relocation.

**PU EN AF 339. Political and Policy Dimensions of Emergency Management. 3 Credits.**

This course considers the political and policy environment in which emergency management is practiced. It focuses on political processes and phenomena associated with mitigating the likely effects of extreme events, responding to them, and recovering from them. The course is intended to help emergency managers develop an understanding of local, state, federal, and intergovernmental politics affecting and affected by extreme events.

**PU EN AF 344. Leadership in Organizations. 3 Credits.**

Roles, functions and environments of organizational managers and leaders broadly defined, especially in public enterprises; issues of human resources management within these sectors.

Fall Odd.

**PU EN AF 345. Public and Nonprofit Human Resource and Risk Management. 3 Credits.**

Risk and human resource management as it affects not-for-profit organizations. This course is applicable to both nonprofit and governmental entities who utilized paid or volunteer staff and face multiple sources of risk to their functioning. Topical coverage will include risk assessment and planning as well as staff development, performance standards, and professional practices regarding proper interviewing, hiring, evaluation and dismissal procedures. Legal requirements and the institutional setting for both human resource and enterprise risk management will be examined.

Fall Only.

**PU EN AF 350. GIS in Public and Environmental Policy. 2 Credits.**

Uses state-of-the-art software to integrate digitized data maps, transfer data, manage relational data bases, overlay maps, display, query, edit interactive graphics, and geocode addresses. Focus is upon GIS applications tailored to public and environmental policy, e.g., tax base analysis, property mapping, natural resources inventory, crime demography, transportation routing, natural hazards, and emergency management.

P: Pu En Af 250

Fall and Spring.

**PU EN AF 351. Water Resources Policy and Management. 3 Credits.**

This course will cover the basics of water management and planning, covering local to global examples of such things as surface water pollution, mining of fossil aquifers, water wars at regional, interstate, and international levels.

P: Pu En Af 102 or Env Sci 102.

Spring.

**PU EN AF 378. Environmental Law. 3 Credits.**

An overview of major environmental laws such as the Clean Air and Clean Water Acts, with emphasis on how these laws are implemented by the federal and state governments.

P: Pol Sci 101 or 202 or Pu En Af 202 or 215.

Fall Only.

**PU EN AF 379. Natural Resources Policy, Law, and Administration. 3 Credits.**

This course examines public land and resources policy, law and administration from multiple perspectives. It covers environmental and administrative decision making and various contemporary resource management problems and conflicts.

P: Pol Sci 101 or Pu En Af 201

Spring Even.

**PU EN AF 380. Global Environmental Politics and Policy. 3 Credits.**

This course explores the transnational and international context of environmental politics and policy. Particular focus areas include the causes of environmental harm, the meaning of sustainability, and the relevance of new environmental actors on the global stage.

P: jr st. REC: Pol Sci 100

Spring.

**PU EN AF 390. Colloquium in Environmental Sustainability & Business. 1 Credit.**

Required component of the Certificate in Environmental Sustainability and Business. Focus is placed be upon the nature of systems thinking systems dynamics, and problem solving. Will address systems dynamics in natural world policy creation, human creativity and the arts, and business decision making. Latter half of class is applications focussed.

P: jr st & EMBI certificate enrollment

Fall and Spring.

**PU EN AF 402. Environmental and Resource Economics. 3 Credits.**

Applications of tools such as cost-benefit analysis and other economic concepts in current public decision making, with special emphasis upon common property resources management.

P: Econ 303 or 305.

Spring.

**PU EN AF 406. State and Local Government. 3 Credits.**

Policy and institutional comparisons across states and local governments through hands-on research, placing a special focus on Wisconsin's local governments.

P: Pol Sci 101 or Pu En Af 215.

Fall Only.

**PU EN AF 407. Service in the Public Sector. 3 Credits.**

This course explores what is meant by public service, with a special focus on service in local governmental settings. The course considers case studies from the International City/Council Management Association and what management and leadership in local government entails.

REC: Pu En Af 215

Fall Only.

**PU EN AF 408. Public Policy Analysis. 3 Credits.**

An introduction to public policy analysis and to the policy-making process, primarily in American government. The course emphasizes the political aspects of policy analysis, models and methods for rational design of public policies, and applications of policy studies to particular public problems.

P: Pol Sci 101 or 202 or Pu En Af 202.

Fall and Spring.

**PU EN AF 409. Public Finance and Fiscal Policy. 3 Credits.**

Effects of government spending and taxation on resource allocation, incomes, prices and employment. Includes consideration of the uses and effects of fiscal policy.

P: Econ 203.

Fall Odd.

**PU EN AF 415. Public and Nonprofit Budgeting. 3 Credits.**

The purposes and attributes of major public budgetary systems: principles and methods in designing and managing relationships among program planning, policy planning and budgetary operation; applications of analytical and decision-assisting tools in public budgetary operations.

P: Pol Sci 101 or 202 or Pu En Af 202 or 215.

Spring.

**PU EN AF 425. Fundraising and Marketing for Nonprofits. 3 Credits.**

The course is designed for students aspiring to manage a nonprofit or serve on a Board of Directors. Students learn about creating a sustainable nonprofit by developing broad based fundraising strategies and by marketing the organization to create a positive community image.

P: Pu En Af 215; REC Pu En Af 315.

Fall Only.

**PU EN AF 426. Strategic Philanthropy: Civic Engagement Through Giving. 3 Credits.**

A hands-on course where students learn the motives, methods, and values of philanthropy by studying local data, working with nonprofits and donors, and allocating funds (provided by community partners) to organizations in the community. Appropriate for all majors.

P: Junior status REC: One or more of Pu En Af 315, 425 or 428

Spring.

**PU EN AF 428. Public and Nonprofit Program Evaluation. 3 Credits.**

Develops a working understanding and selected skills relating to the conduct of program evaluations. Evaluation design, data collection, data analysis, and utilization of findings are discussed using the political and social context of "real" organizations.

P: Pu En Af 215; REC: Comm Sci 301; Pu En Af 315; Pu En Af 408.

Spring.

**PU EN AF 430. Seminar in Ethics and Public Action. 3 Credits.**

A capstone course intended to introduce a range of ethical concerns in public affairs. Through theoretical and case study readings and applied projects, students deal with ethical issues and varied responses to them.

Fall and Spring.

**PU EN AF 450. Advanced Geographic Information Systems. 3 Credits.**

Project-based course using ArcGIS. Students define a project, develop a database, analyze spatial data, and develop GIS maps displaying results of their analysis.

P: Geog 350 or Pu En Af 350.

Spring Even.

**PU EN AF 452. Planning Theory and Methods. 3 Credits.**

Planning for public and not-for-profit agencies: theory and practical significance of planning; the political and administrative setting of planning operations; and methods of planning analysis such as strategic planning.

P: BUS ADM 216 or COMM SCI 205 or MATH 260

Fall Even.

**PU EN AF 453. Cost Benefit Analysis. 3 Credits.**

Application of tools and concepts in current economic decision making, with special emphasis upon Natural Resource management, environmental problems, market failure, and public policy approaches.

**PU EN AF 461. Special Topics in Public and Environmental Affairs. 3 Credits.**

An interdisciplinary study of public policy issues selected from public administration and environmental policy and planning. Includes issues such as health care reform, environmental policy analysis, policy planning.

**PU EN AF 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**PU EN AF 490. EMBI Co-Op/Experience. 3 Credits.**

Required component of the Certificate in Environmental Sustainability and Business. Enrolled students will be placed by EMBI in a business, nonprofit, or governmental setting that involves interdisciplinary problem solving within an environmental sustainability context. This will be a special co-op/ internship/project experience.

P: Junior standing and enrollment in Environmental Sustainability and Business certificate program.

**PU EN AF 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**PU EN AF 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**PU EN AF 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Social Work (SOC WORK)

### Courses

**SOC WORK 202. Introduction to Human Services. 3 Credits.**

Overview of career opportunities in the human services; explores such fields of practice as aging, corrections, alcohol and substance abuse, child welfare, mental health and the developmentally disabled.

Fall Only.

**SOC WORK 250. You and Your Future: Living and Working in an Aging Society. 3 Credits.**

This interactive service learning course explores contemporary topics in aging including anti-aging technology, multi-generational workplace issues, public policy issues, family and intergenerational caregiving, and programs and services for older adults. Second Life virtual reality technology is used in the course.

**SOC WORK 275. Foundations of Social Welfare Policy. 3 Credits.**

Overview of the U.S. social welfare institution, including the development of policies and services to meet social problems and the institutional arrangements that provide people with the resources and services to meet their needs.

P: Eng Comp 105 or conc enr.

Fall Only.

**SOC WORK 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**SOC WORK 300. Field Experience in a Human Service Agency. 1 Credit.**

Introductory exposure to working in a social services agency; professionally supervised program of observation and assistance in the agency.

P: conc enr in Soc Work 370.

Spring.

**SOC WORK 305. The Social Work Profession. 3 Credits.**

Orientation to the knowledge, skills and values of professional social work practice. Definition of professional competencies expected of a Bachelor of Social Work graduate and their relationship to field training experience.

P: major in Soc Work; Eng Comp 105; Soc Work 275 or conc enr.; conc enr. in Soc Work 313.

Fall Only.

**SOC WORK 313. Social Work Skills Lab I. 1 Credit.**

Instruction and practice in basic interviewing skills for the beginning social work professional.

P: conc enr in Soc Work 305.

Fall Only.

**SOC WORK 323. Social Work Skills Lab II. 1 Credit.**

Instruction and practice in interpersonal skills required for working with other professionals, including use of supervision, teamwork, mediation, negotiation, referral and conflict management.

P: conc enr in Soc Work 370.

Spring.

**SOC WORK 330. Understanding Diversity, Challenging Oppression: A Service Learning Course for Helping Professionals. 3 Credits.**

Service learning course on working with diverse groups and communities for persons considering a career in the helping professions.

P: Sophomore status.

**SOC WORK 351. Overview of the Child Welfare System. 3 Credits.**

Analysis of the place of child welfare policies and services among society's general provisions for family welfare and support. Overview of child welfare programs and services and the broad principles underlying delivery of services.

P: Soc Work 305

Spring.

**SOC WORK 370. Social Work Methods I. 3 Credits.**

Application of social work methods to planned changes with organizations and communities; explores how agency and community contexts shape social work practice.

P: Soc Work 305.

Spring.

**SOC WORK 371. Human Behavior and the Social Environment. 3 Credits.**

Examines the biological, psychological, social-structural and cultural sources of the behavior of individuals and organizations from the perspective of systems analysis, human diversity and goal-directed behavior; applications to social work practice.

P: Soc Work 305 and Hum Biol 102.

Spring.

**SOC WORK 375. Family Principles and Patterns. 3 Credits.**

This course is designed to increase familiarity with the family unit and its social role. Topics include basic principles of the family life cycle, how privilege and social positioning impact family life, and typical transitions and challenges experienced by the family.

P: Jr Standing.

**SOC WORK 380. Cross Cultural Diversity and the Helping Professions. 3 Credits.**

Students who will work with diverse individuals and groups seeking professional services will learn to do so in a culturally relevant manner. Course content specifically focuses on the application of culturally relevant work in the helping professions.

P: sophomore standing.

**SOC WORK 395. Special Topics in Social Work. 1-3 Credits.**

In-depth coverage of topics not covered by regular courses, such as substance use, mental health problems, interpersonal violence, PTSD, aging, homelessness, LGBTQ issues, religion, spirituality, globalization, and others. Offerings of different topics can be repeated for credit.

P: so st.; REC: Eng Comp 105.

**SOC WORK 402. Field Practicum I. 5 Credits.**

Actual social service work through placement in a social service agency.

P: conc enr in Soc Work 411.

Fall Only.

**SOC WORK 403. Field Practicum II. 5 Credits.**

Actual social service work through placement in a social service agency.

P: Soc Work 402 and conc enr in 420.

Spring.

**SOC WORK 411. Social Work Methods II. 3 Credits.**

Application of social work methods with individuals, families and groups; focus on assessment, planning and intervention strategies with an introduction to evaluation and termination processes.

P: Soc Work 370.

Fall Only.

**SOC WORK 413. Social Work Skills Lab III. 1 Credit.**

Instruction and practice in advanced interviewing skills needed by the beginning social work professional.

P: conc enr in Soc Work 411.

Fall Only.

**SOC WORK 420. Social Work Methods III. 3 Credits.**

Theory and methods of planned change interventions with specific populations at risk; integration of micro and macro level practice, with an emphasis on community organizing; evaluation of practice; and termination.

P: Soc Work 411.

Spring.

**SOC WORK 423. Social Work Skills Lab IV. 1 Credit.**

Instruction and practice in professional interactional skills focusing on small and large groups, and specialized intervention skills.

P: conc enr in Soc Work 420.

Spring.

**SOC WORK 431. Social Policy Analysis I. 2 Credits.**

Instruction and practice in analyzing social problems and related policies; observation with local government policy making; application of skills to specific policy and its implementation in the community.

P: Soc Work 370 and conc enr in 461.

Fall Only.

**SOC WORK 433. Social Policy Analysis II. 2 Credits.**

Theory and methods for planned social policy change; development and implementation of a planned change project as a follow up to the social problem and policy analyzed in Social Policy Analysis I.

P: Soc Work 431 and conc enr in 463.

Spring.

**SOC WORK 451. Child Welfare Practice. 3 Credits.**

Overview of social work practice in child welfare. Examinations of nature and causes of child maltreatment and the role of child welfare. Exploration of the ways practice principles in child welfare are applied in the assessment and intervention phases of helping in the delivery of services.

P: Soc Work 351 and 370.

Fall Only.

**SOC WORK 461. Program Evaluation I. 2 Credits.**

Introduction to the principles of program evaluation and community research. Design and implement an evaluation research project.

P: Comm Sci 301; Soc Work 370; conc enr in Soc Work 431.

Fall Only.

**SOC WORK 463. Program Evaluation II. 2 Credits.**

Introduction to program evaluation designs; analyze and interpret data from community research project; make recommendations for new or changed programs or policies.

P: Soc Work 461; conc enr in Soc Work 433.

Spring.

**SOC WORK 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**SOC WORK 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**SOC WORK 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**SOC WORK 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Sociology (SOCIOL)

### Courses

**SOCIOL 202. Introduction to Sociology. 3 Credits.**

Major sociological concepts and ideas and their application to contemporary problems of societies.

Fall and Spring.

**SOCIOL 203. Ethnic and Racial Identities. 3 Credits.**

The character of racial, religious and ethnic minority groups; social and economic adjustments in American society; the role of private and public agencies.

P: Sociol 202 or Anthro 100.

Fall Only.

**SOCIOL 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**SOCIOL 302. Class, Status and Power. 3 Credits.**

Class, status and power as determinants of group interests, preferences, ideologies and struggles; examination at the national and international levels.

P: Sociol 202.

Spring Even.

**SOCIOL 303. Race and Ethnic Relations. 3 Credits.**

Comparative study of race and ethnic relations in the United States and other countries. The focus is on theories of race relations and ethnic stratification and the importance of these issues in national and international perspective. Case studies of ethnic relations in particular countries (e.g., South Africa, Brazil, Malaysia, Lebanon, Soviet Union) will be emphasized.

P: Sociol 202 or 203 or intro level soc sci cse.

Fall Odd.

**SOCIOL 304. Deviant Behavior. 3 Credits.**

Foundations of morality and the relationship between morality and deviance; positive and negative aspects of both deviance and conformity.

P: Sociol 202.

**SOCIOL 307. Social Theory. 3 Credits.**

Critical analysis of classical and contemporary social theories with attention to the social and intellectual context and contemporary application.

P: Sociol 202.

Fall Even.

**SOCIOL 308. Sociology of the Family. 3 Credits.**

A sociological approach to marriage and families in American society; historical changes in family life; the problems of defining family; social class; ethnicity and gender as key variables in family power; life transitions; and divorce and remarriage.

P: so st; and Sociol 202 or Hum Dev 210 or Anthro 100.

Fall Only.

**SOCIOL 310. Urban Sociology. 3 Credits.**

The study of social life and population groups in the urban environment. Our concern is with the social and psychological consequences of city life and the political and economic forces which have produced the industrial and corporate cities of the present day. Other topics include theories of "community," the location of industrial and commercial areas, the distribution of racial and ethnic groups, and urban problems such as poverty, housing, and public services.

P: jr st; and Ur Re St 100 or Pu En Af 202 or Pol Sci 202 or Sociol 202.

Fall Only.

**SOCIOL 315. Street Gangs in America. 3 Credits.**

Organization of and subculture of street gangs in American communities; differences among ethnic/racial street gangs; representation of gang identity through graffiti, tattoos, clothing, music; gang membership and wannabes.

P: Sociol 202 or Anthro 100 or Ur Re St 100.

Spring Odd.

**SOCIOL 404. Criminology. 3 Credits.**

Criminology is a survey of the theories and methods sociologists use to study crime and delinquency. The course presents the disciplinary history of criminology and critically examines the structure and function of the criminal law and punishment.

P: Sociol 202 or Soc C D 204; REC: Soc C D 303.

Spring Even.

**SOCIOL 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**SOCIOL 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**SOCIOL 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Spanish (SPANISH)

### Courses

**SPANISH 101. Introduction to the Spanish Language I. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Spanish.

Fall Only.

**SPANISH 102. Introduction to the Spanish Language II. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Spanish.

P: none; REC: 1 yr h.s. or 1 sem college Spanish.

Spring.

**SPANISH 110. Intro to Spanish in the Professions I. 2 Credits.**

Introductory web-enhanced Spanish courses for professionals.

Fall and Spring.

**SPANISH 111. Intro to Spanish in the Professions II. 2 Credits.**

Introductory web-enhanced Spanish courses for professionals.

P: Spanish 110

Fall and Spring.

**SPANISH 112. Intro to Spanish in the Professions III. 2 Credits.**

Introductory web-enhanced Spanish course for professionals.

P: Spanish 111

Fall and Spring.

**SPANISH 201. Intermediate Spanish Language I. 3 Credits.**

Further development of the ability to understand, read, write and speak Spanish.

P: none; REC: 2 yrs h.s. or 2 sem college Spanish.

Fall Only.

**SPANISH 202. Intermediate Spanish Language II. 3 Credits.**

Further development of the ability to understand, read, write and speak Spanish.

P: none; REC: 3 yrs h.s. or 3 sem college Spanish.

Spring.

**SPANISH 210. Intermediate Spanish in the Professions I. 2 Credits.**

Further development of ability to understand reading, speaking, and writing in Spanish. Web-enhanced Spanish course for professionals

P: Spanish 114

Fall and Spring.

**SPANISH 211. Intermediate Spanish in the Professions II. 2 Credits.**

Further development of ability to understand reading, speaking, and writing in Spanish. Web-enhanced Spanish course for professionals.

P: Spanish 210

Fall and Spring.

**SPANISH 212. Intermediate Spanish in the Professions III. 2 Credits.**

Further development of ability to understand reading, speaking, and writing in Spanish. Web-enhanced Spanish course for professionals.

P: Spanish 211

Fall and Spring.

**SPANISH 214. Intermediate Spanish in the Professions IV. 2 Credits.**

Introductory web-enhanced Spanish course for professionals.

P: Spanish 112

Fall and Spring.



**SPANISH 225. Composition and Conversation I. 3 Credits.**

Development of greater fluency through classroom practice in conversation and composition.

P: none; REC: 4 yrs h.s. or 4 sem college Spanish.

Fall Only.

**SPANISH 226. Composition and Conversation II. 3 Credits.**

Continues development of Spanish fluency through practice and study of language. Emphasis on developing accurate use of grammatical structures in written and oral expression.

P: Spanish 225

Spring.

**SPANISH 285. Study Abroad: Spain and Latin America. 3-15 Credits.**

P: cons of instr & prior trip arr & financial deposit.

**SPANISH 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**SPANISH 328. Introduction to Cultural Studies in Spanish. 3 Credits.**

This course is designed to introduce students to the interdisciplinary study of a variety of topics related to the cultures of the Spanish speaking world. It incorporates political, social, and cultural perspectives and provides students with academic writing, research, and critical thinking skills in the field of cultural studies.

Fall and Spring.

**SPANISH 329. Representative Spanish and Latin American Authors. 3 Credits.**

Important novels, plays, poems, and essays representative of major eras and movements of Spanish and Latin American societies foster appreciation of the language and understanding of the literature and culture. Includes different styles of writing and differing treatment of recurring themes. Offered in the language. May be repeated for credit when different author is studied.

P: Spanish 328 OR Spanish 225 OR concurrent enrollment in Spanish 328

Fall Only.

**SPANISH 345. Advanced Spanish Grammar. 3 Credits.**

In-depth review and continued study of Spanish grammar.

P: Spanish 226

Spring Odd.

**SPANISH 351. Major Spanish and Latin American Fiction. 3 Credits.**

Study of Spanish short story and/or novels either by period or by theme.

P: Spanish 328

Spring.

**SPANISH 355. Spanish and Latin American Cinema. 3 Credits.**

Historical and critical introduction to the work of prominent Spanish and Latin American filmmakers and to thematic representations of Spanish and Latin American Cultures.

P: Spanish 225.

Spring Even.

**SPANISH 357. Cultura Latina. 3 Credits.**

This course is designed to be a query into the nature of Latino/Hispanic Culture in the United States and in the Green Bay area. During the semester we will be discussing in class the changing nature of Latino/Hispanic culture in the United States, as it is reflected in different art media (literature, visual art), cultural theory and mass media.

P: Spanish 328.

**SPANISH 358. Latin America Today. 3 Credits.**

Specific humanistic aspects of contemporary Latin American culture, including its history, art, literature, music and value systems.

P: Spanish 328 OR Spanish 225 OR concurrent enrollment in Spanish 328

Fall Even.

**SPANISH 359. The Cultures of the Americas. 3 Credits.**

A look at the three major cultural influences in Latin America: Amerindian, African, and European. The history of ethnic relations and intercultural contact in the Americas.

P: Spanish 328

Spring Odd.

**SPANISH 360. Spain Today. 3 Credits.**

Aspects of contemporary Spain, including its cultures, architecture, music, art and values. Credit not granted for both Spanish 360 and Hum Stud 360.

P: Spanish 328

Fall Odd.

**SPANISH 361. The Cultures of Spain. 3 Credits.**

This course provides a historical overview of the many cultures that have played a role in the development of what is now Spain.

P: Spanish 328

Spring Odd.

**SPANISH 372. Spanish Phonetics. 3 Credits.**

Survey of descriptive linguistics with emphasis on the sound system of Spanish.

P: Spanish 226 or Spanish 225

Fall Even.

**SPANISH 438. Major Spanish and Latin American Writer(s). 3 Credits.**

Study of an outstanding figure in Spanish and Latin American literatures.

P: Spanish 328 OR Spanish 225 OR concurrent enrollment in Spanish 328

Spring Odd.

**SPANISH 465. Special Topics. 3 Credits.**

This variable content course will allow students to analyze seminal aspects pertaining to the language, history and cultures of Spain, Latin America and the Spanish-speaking communities in the United States.

P: Major or Minor in Spanish and Spanish 328; REC: Spanish 329.

**SPANISH 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**SPANISH 485. Study Abroad:Spain and Latin America. 3-15 Credits.**

Students register for this course before departing. Upon return to U.S. they must submit course descriptions and written evaluations from their professors, together with a formal certificate and a letter grade.

P: cons of instr & prior trip arr & financial deposit.

Fall and Spring.

**SPANISH 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

Fall and Spring.

**SPANISH 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**SPANISH 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Theatre and Dance (THEATRE)

### Courses

**THEATRE 110. Introduction to Theatre Arts. 3 Credits.**

The literature, elements, and artists in theatre from a process-oriented historical perspective. Includes research prior to performances, attendance at theatre performances, artist interviews and writing of performance responses.

Fall and Spring.

**THEATRE 128. Jazz Dance I. 1 Credit.**

Introduces the beginning dance student to the techniques, theories and practice of the jazz genre.

Fall and Spring.

**THEATRE 131. Acting I. 3 Credits.**

Develops a basic organic approach to acting technique through theatre games, vocal and physical exercises, scene work, and improvisation.

Fall Only.

**THEATRE 137. Ballet I. 1 Credit.**

Development of strength, flexibility, coordination, rhythm and correct body placement as these elements pertain to the technical and stylistic demands of ballet upon the human body.

Fall and Spring.

**THEATRE 138. Ballet II. 2 Credits.**

Continuing development of strength, flexibility, coordination, rhythm and correct body placement as these elements pertain to the technical and stylistic demands of ballet upon the human body.

P: Theatre 137.

**THEATRE 141. Period Dance Styles. 1 Credit.**

An overview of folk, social, and popular dance styles from Ancient Greek to present. Styles will be discussed in their historical context and technique will be emphasized in a studio setting.

Fall and Spring.

**THEATRE 142. American Musical Theatre Dance. 1 Credit.**

An overview of dance styles commonly used in Musical Theatre. Styles will be discussed in their historical context and technique will be emphasized in a studio setting.

P: Theatre 161 and 228.

Spring.

**THEATRE 145. Modern Dance I. 1 Credit.**

The use of the medium of modern dance, both technically and stylistically, to develop strength, flexibility, coordination and rhythm in the human body, leading to physical self-expression.

Fall and Spring.

**THEATRE 161. Tap Dance I. 1 Credit.**

An introductory study of tap dancing, with emphasis on basic technique, steps, and combinations.

Fall and Spring.

**THEATRE 190. First Year Applied Musical Theatre Voice. 1 Credit.**

Study of literature drawn from music theatre repertoire. Some classical repertoire will be utilized for the study of style and the development of proper technique and mature tone. Placement is by audition.

P: Mus App 045 or 105; and cons of prog chair; REC: Music 151, 115 and conc enr in vocal/choral ensemble or theatre/musical theatre production.

Fall and Spring.

**THEATRE 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**THEATRE 219. UWGB Meets NYC: New York Theatre Trip. 1 Credit.**

6-day and 5-night theatre trip to New York City. An opportunity to see up to five Broadway and Off-Broadway productions in addition to art museum and theatre-related tours.

P: cons of instr & prior trip arr & financial deposit; REC: Thea major.

Spring Even.

**THEATRE 220. Stage Management. 3 Credits.**

Procedures and functions of the professional and non-professional stage manager; includes skills such as department organization, scheduling and rehearsal procedures, and communications.

P: conc enr in Theatre 335, 336, 338 or 339.

Fall Even.

**THEATRE 221. Stagecraft. 4 Credits.**

Organization and operation of theatre productions: basic scenery construction, scene shop and theatre safety.

P: conc enr in Theatre 338.

Fall Only.

**THEATRE 222. Costume Technology. 4 Credits.**

Organization and operation of theatre productions: basic costume construction and costume shop operations.

P: conc enr in Theatre 335, 336, 338 or 339; REC: Theatre 221.

Fall and Spring.

**THEATRE 223. Computer Applications for Theatre. 3 Credits.**

This course will introduce/develop student proficiency in the use of VectorWorks (CAD) program in scenic and lighting applications as well as other technically-related data management and visualization software.

P: conc enr in Theatre 335, 336, 338 or 339.

Fall Odd.

**THEATRE 224. Introduction to Theatre Design. 3 Credits.**

An introduction to the fundamental principles of design and their applications in the performing arts. Students will study the vocabulary and communication of design elements through research and hands-on projects.

Spring Odd.

**THEATRE 228. Jazz Dance II. 2 Credits.**

Continued study and execution of the style and techniques of jazz dance. Study of the styles of major choreographers in American musical theater.

P: Theatre 128; REC: conc enroll in ballet or modern dance.

Spring.

**THEATRE 231. Acting II. 3 Credits.**

Scene work in realistic dramas; practice in techniques of script analysis and character development.

P: Theatre 131.

Spring.

**THEATRE 233. Voice for the Actor I. 3 Credits.**

Introduction to principles of vocal training systems used in actor training. Provides students with a working knowledge of their vocal and physical capabilities. Work on breathing, posture, and development of warm-up procedures.

Fall Only.

**THEATRE 261. Tap Dance II. 1 Credit.**

Continuation of Tap Dance I introducing more complex tap technique. Increase speed and clarity of technique, and complexity of tap combinations and dances.

P: Theatre 161.

Fall Only.

**THEATRE 289. Second Year Applied Musical Theatre Voice I. 1 Credit.**

Study of literature drawn from music theatre repertoire. Some classical repertoire will also be utilized for the study of style and the development of proper technique and mature tone. Placement is by audition.

P: Mus App 190 or 106 or Theatre 190; and Music 151 or conc enr; and Mus App 011 or conc enr, 012 or conc enr or 013 or conc enr; and cons of prog chair; REC: enr in vocal/choral ensemble or theatre/musical theatre production.

Fall and Spring.

**THEATRE 290. Second Year Applied Musical Theatre Voice II. 1 Credit.**

Study of literature drawn from music theatre repertoire. Some classical repertoire will also be utilized for the study of style and the development of proper technique and mature tone. Placement is by audition.

P: Mus App 289 or 205 or Theatre 289; and Music 151; and Mus App 021 or conc enr, 022 or conc enr or 013 or conc enr; and cons of prog chair; REC: conc enr in choral ensemble/workshop or theatre/musical theatre production.

Fall and Spring.

**THEATRE 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**THEATRE 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**THEATRE 302. Dramaturgy-Playwriting. 3 Credits.**

P: None.

**THEATRE 305. Audition Techniques for the Actor. 3 Credits.**

Preparation of classic and contemporary monologues and scenes, professional resumes and photos; dealing with the business aspects of establishing a career as an actor.

P: Theatre 231.

Fall Only.

**THEATRE 309. Theatre History I: Greek to Elizabethan. 3 Credits.**

Theatre history and literature, from Greek to Elizabethan.

Fall Odd.

**THEATRE 310. Theatre History II: 17th Century to Realism. 3 Credits.**

Theatre history and literature, from 17th century to 19th century.

P: none; REC: Theatre 309.

Fall Even.

**THEATRE 311. Theatre History III: 20th Century and Contemporary. 3 Credits.**

Theatre history and literature, 20th century and contemporary.

P: none; REC: Theatre 309 and 310.

Spring Odd.

**THEATRE 321. Scene Design. 4 Credits.**

Practical techniques of scene design: mechanical drawing, rendering and model building for the theatre. Develops ability to create the visual and mechanical environment to support the presentation of theatre pieces.

P: Theatre 221, 222 and 224.

Fall Even.

**THEATRE 322. Costume Design. 3 Credits.**

History of costumes as they relate to the theatre; costume design in relation to the play and the actor; study of the processes of costume design: fabric, color and line, mass and light.

P: Theatre 224; and conc enr in Theatre 335, 336, 338 or 339.

Spring Even.

**THEATRE 323. Stage Lighting. 3 Credits.**

Aesthetic practice of design of lighting in theatrical production: composition and psychological effects of stage lighting; contemporary equipment and control systems.

P: conc enr in Theatre 335 or 336 or 338 or 339; REC: Theatre 221 and 222.

Spring.

**THEATRE 325. Stage Makeup. 3 Credits.**

Principles and applications of stage makeup: materials, light and color, and character analysis.

P: conc enr in Theatre 335, 336, 338 or 339; REC: Theatre 221 and 222.

Fall Even.

**THEATRE 328. Jazz Dance III. 2 Credits.**

Advanced study and execution of the style and technique of Jazz Dance. A study of the styles of major choreographers in the American Musical Theatre. Competence in performance is stressed.

P: Theatre 228.

Fall Only.

**THEATRE 331. Acting III. 3 Credits.**

Scene work in poetic drama and period plays; techniques of verse interpretation, research into production history and performance styles; use of appropriate movement, manners and behavior.

P: Theatre 231; conc enr in Theatre 335 or 336 or 338 or 339.

Spring.

**THEATRE 333. Voice for the Actor II. 3 Credits.**

A strengthening of structural and tonal work explored in Voice for the Actor I. Introduces stage dialects, character voices, and their healthy production.

P: Theatre 233

Spring Even.

**THEATRE 335. Production Practicum: Crews. 1 Credit.**

Crew member/staff participation in a theatre production.

Fall and Spring.

**THEATRE 336. Production Practicum: Performance. 1 Credit.**

Performance in a theatre production.

Fall and Spring.

**THEATRE 338. Production Practicum: Scene Shop. 1 Credit.**

Complete production work in scene shop preparation.

Fall and Spring.

**THEATRE 339. Production Practicum: Costume Shop. 1 Credit.**

Complete production work in costume shop preparation.

P: Theatre 222.

Fall and Spring.

**THEATRE 340. Dance History. 3 Credits.**

Origins and chronological development of dance styles, including ballet, modern, jazz, musical theater and social dance. Major works and personalities influencing dance from aboriginal cultures to the present day.

Fall Odd.

**THEATRE 351. Directing I. 3 Credits.**

Theories and techniques of theatrical staging and the relationship of the director to the actors and designers. Study of script analysis and rehearsal technique.

P: Theatre 131; and conc enr in Theatre 335, 336, 338 or 339.

Fall Only.

**THEATRE 352. Directing II. 3 Credits.**

Advanced theories and techniques of theatrical performance through staging and directing exercises.

P: Theatre 351.

Spring Even.

**THEATRE 356. Production Practicum: Properties and Scene Painting. 1 Credit.**

Production work in properties preparation and scenic painting.

Fall and Spring.

**THEATRE 361. Tap Dance III. 1 Credit.**

Continuation of Tap Dance II. Increase speed, clarity and complexity of technique, combinations and dances. Introduce syncopated and complex rhythms and techniques.

P: Theatre 261.

Spring.

**THEATRE 364. Musical Theatre History. 3 Credits.**

Cultural conflict, influence and enrichment that arise when differing traditions of the arts come into contact with musical theatre and its development.

Fall Odd.

**THEATRE 389. Third Year Applied Musical Theatre Voice I. 1 Credit.**

Study of literature drawn from music theatre repertoire. Some classical repertoire will be utilized for the study of style and the development of proper technique and mature tone. Placement is by audition.

P: Mus App 290 or 206 or Theatre 290; and Music 151; and Mus App 021 or 022 or 013; and cons of prog chair; REC: conc enr in choral/vocal ensemble or theatre/musical theatre production.

Fall and Spring.

**THEATRE 390. Third Year Applied Musical Theatre Voice II. 1 Credit.**

Study of literature from music theatre repertoire. Some classical repertoire will be utilized for the study of style and the development of proper technique and mature tone. Placement by audition.

P: Mus App 389 or 305 or Theatre 389; and Mus App 031 or 032 or 013; and cons of prog chair; REC: conc enr in choral/vocal ensemble or theatre/musical theatre production.

Fall and Spring.

**THEATRE 421. Scene Painting. 3 Credits.**

A Project oriented course incorporating the tools, materials, and techniques necessary to prepare a variety of visual textures and details necessary in theatrical scenic environments. Projects include Marble, Brick, Stone, Granite, Stencils, wood, Foliage, Metallic or Glass surfaces and a large detailed Final Group Project.

Fall Odd.

**THEATRE 422. Costume Crafts. 3 Credits.**

Advanced instruction in special topics in costume technology, including but not limited to Millinery, Painting and Dyeing, Corsetry and Padding, Pattern Drafting and Draping, Masks, Armor, and Distressing.

P: Theatre 221 and 222; and conc enr in Theatre 335 or 336 or 338 or 339.

**THEATRE 423. Advanced Stage Lighting. 3 Credits.**

Aesthetic practice of lighting in theatrical production, emphasizing programming and analysis. Practical application of the tools used in lighting.

P: Theatre 224 and 323; conc enr in Theatre 335, 336, 338 or 339.

Spring Even.

**THEATRE 426. Sound for Theatre. 3 Credits.**

A Project oriented course exploring the design process used for creating, selecting and editing music/sound effects for a theatrical production. Aesthetic and technical aspects of designing sound are discussed, demonstrated and realized. The course will culminate with each student creating and presenting a complete sound design for a specific script.

**THEATRE 433. Vocal Specialization. 1 Credit.**

Detailed production specific vocal work for special problems and/or solutions to character development and vocal production issues.

Fall and Spring.

**THEATRE 440. Choreography. 3 Credits.**

Technical forms and applications for composition of movement. Study of rhythmic patterns and their relationships to movement, creative content, musical interpretation, projection and dynamics. Includes movement and placement for large ensembles.

P: Theatre 228.

Fall Even.

**THEATRE 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**THEATRE 489. Fourth Year Applied Musical Theatre Voice I. 1 Credit.**

Study of songs drawn from music theatre repertoire. Some classical repertoire will be utilized for the study of style and the development of proper technique and mature tone. Placement by audition.

P: Mus App 390 or 306 or Theatre 390; and Mus App 261 or 262; and Mus App 021 or 022 or 013; and cons of prog chair; REC: conc enr in choral/vocal ensemble or theatre/music theatre production.

Fall and Spring.

**THEATRE 490. Fourth Year Applied Musical Theatre Voice II. 1 Credit.**

Study of literature from music theatre repertoire. Some classical repertoire will be utilized for the study of style and the development of proper technique and mature tone. Placement by audition.

P: Mus App 489 or 405 or Theatre 489; and Mus App 261 or 262; and Mus App 021 or 022 or 013; and cons of prog chair; REC: conc enr in choral/vocal ensemble or theatre/music theatre production.

Fall and Spring.

**THEATRE 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**THEATRE 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

Fall and Spring.

**THEATRE 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Urban and Regional Studies (UR RE ST)

### Courses

**UR RE ST 100. Introduction to Urban Studies. 3 Credits.**

The richness and complexity of the human experience in the modern city. Examines the city as an arena in which interrelationships between enduring human concerns and social institutions are expressed and asks how the city influences these as well as how the established institutions and concern influence the city.

Fall and Spring.

**UR RE ST 102. World Regions and Concepts: A Geographic Analysis. 3 Credits.**

Contemporary geography, its viewpoints and methodology; geographic reality of the present-day world is analyzed through case studies using both the regional approach and systematic analysis.

Fall Only.

**UR RE ST 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**UR RE ST 201. City Life and Globalization. 3 Credits.**

The course explores the effect of globalization on people, specifically on urban processes worldwide. This course is comparative in nature and will explore global processes as they challenge people living in urban areas worldwide. The course explores different survival strategies on how to make cities better for a majority of the people.

Spring.

**UR RE ST 205. Urban Social Problems. 3 Credits.**

The course offers a basic introduction to the history, sociology, geography, economics, and politics of U.S. urban problems; examines specific problems such as jobs, housing, and public finance; and considers future prospects.

Fall and Spring.

**UR RE ST 210. Drawing Systems for the Designer. 3 Credits.**

The theory and practical application of various drawing systems, including orthographic, axiometrics, and perspectives, and their use as aids in the design process.

P: none; REC: Art 106.

**UR RE ST 216. Native American Landscapes: Imagined and Lived Spaces. 3 Credits.**

The course will explore the relationship between time and space within Native American cultures. The course will compare North American indigenous landscapes and Andean indigenous landscapes.

**UR RE ST 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**UR RE ST 305. Urban Politics and Policy. 3 Credits.**

Structures and operations of city governments and their responses to policy issues such as education, employment, social welfare, housing, transportation, migration, racial discrimination, urban sprawl and social inequality.

P: jr st; and Pol Sci 101 or Ur Re St 100.

Fall Only.

**UR RE ST 309. Urban and Regional Economics. 3 Credits.**

Basic concepts in the economics of regions and urban areas, such as industrial location theory, central place theory, land rent theory, economic base theory, and input-output analysis; applications to problems of economic development, urbanization and place prosperity.

P: Econ 203 and jr st; REC: Econ 202.

Spring.

**UR RE ST 310. Urban Sociology. 3 Credits.**

The study of social life and population groups in the urban environment. Our concern is with the social and psychological consequences of city life and the political and economic forces which have produced the industrial and corporate cities of the present day. Other topics include theories of "community," the location of industrial and commercial areas, the distribution of racial and ethnic groups, and urban problems such as poverty, housing, and public services.

P: jr st; and Ur Re St 100 or Pu En Af 202 or Pol Sci 202 or Sociol 202.

Fall Only.

**UR RE ST 312. Community Politics. 3 Credits.**

This course emphasizes the historical dimensions of community politics in the U.S. It also explores the role of grass roots social movements in shaping local politics.

P: none; REC: Pol Sci 101.

Spring.

**UR RE ST 313. The City Through Time and Space. 3 Credits.**

Analysis of human settlement and the influence of social, economic and technological change on urban structure and the aesthetic qualities of city scapes in historical and cross-cultural settings.

P: jr st; and Ur Re St 100 or 341 or Geog 341.

Spring.

**UR RE ST 315. Street Gangs in America. 3 Credits.**

Organization of and subculture of street gangs in American communities; differences among ethnic/racial street gangs; representation of gang identity through graffiti, tattoos, clothing, music; gang membership and wannabes.

P: Sociol 202 or Anthro 100 or Ur Re St 100.

Spring Odd.

**UR RE ST 320. Cities in Cinema. 3 Credits.**

This course explores the relationship between cinema and research themes in Urban Studies with an overreaching emphasis on global/world cities.

These cities are the pinnacle of the global urban network and are the "hubs of economic control, production and trade, of information circulation and cultural transmission, and of political power" (The Dictionary of Human Geography). In this course, related interdisciplinary readings serve as the framework for viewing, analyzing, critiquing, and discussion urban lifestyles, political economic structures and relationships, and the built environment as portrayed in popular films.

P: None REC: UR RE ST 100

Spring Odd.



**UR RE ST 323. Asian American Communities in the United States. 3 Credits.**

Review of Asian immigration to the United States; formation of ethnic communities; prejudice and discrimination against Asian groups; and current issues affecting Asian Americans.

P: jr st; and Anthro 100 or Hum Stud 211 or Sociol 202 or 203 or Ur Re St 100.

Spring Odd.

**UR RE ST 324. Latino Communities in the United States. 3 Credits.**

Review of Hispanic immigration to the United States; formation of ethnic communities; diversity of Hispanic ethnic groups; and current issues affecting Hispanics such as immigration policy and bilingual education.

P: jr st; and Anthro 100 or Sociol 202 or 203 or Ur Re St 100.

Spring Odd.

**UR RE ST 340. Economics of Land Use. 3 Credits.**

Economic relationships between humans and land. Principles governing land use and conservation and the institutional arrangements of this basic resource. Application of principles in policy-making in land valuation, taxation and zoning in the context of regional economic development.

Spring.

**UR RE ST 341. The City and its Regional Context. 3 Credits.**

The course will focus on two main interrelated themes in urban geography. It will explore urban places as systems operating as an entity among other cities and the surrounding region. Second, it will explore social construction of urban morphology.

P: jr st.

Spring.

**UR RE ST 342. Community Economic Development. 3 Credits.**

Various forces involved in community economic development, including the human and non human resource potentials, motivation, values and attitudes. Examines social and economic structures such as transportation, communication, and community services from the point of view of community development.

P: jr st; and Econ 202 or 203.

Spring Odd.

**UR RE ST 351. Transportation and the City. 3 Credits.**

The impact of the transportation subsystem of the city upon other urban subsystems (residential, commercial) and upon urban dwellers.

P: jr st; and Pol Sci 101 or 202 or Pu En Af 202 or Ur Re St 100.

Fall Odd.

**UR RE ST 360. GIS and the Urban World. 3 Credits.**

This course applies geographic information systems (GIS) techniques to real-world urban problems in the context of pertinent theoretical foundations. It is designed to provide a background in GIS-based spatial analysis approaches and develop an understanding of the operational basis of GIS technology while furthering the comprehension of the urban problems themselves.

P: Geog 250

Spring.

**UR RE ST 370. Geography of South America. 3 Credits.**

A survey course which will explore the physical features, resources, people, and the political economy of the American southern hemisphere.

P: jr st; REC: Env Sci 102 or Geog 222.

Fall Even.

**UR RE ST 392. Analysis of South Asia. 3 Credits.**

Regions of South Asian countries in various stages of development. Emphasis on the interaction of physical and human resources.

P: jr st.

Fall Odd.

**UR RE ST 412. Urban and Regional Planning. 3 Credits.**

Examines planning theory, focusing on models of rationality, valuation processes, political decision-making, governmental structure and fiscal policies.

P: jr st; and Geog 102 or Pol Sci 202 or Pu En Af 202 or Ur Re St 100 or 102; REC: Pol Sci 101.

Fall Only.

**UR RE ST 431. Seminar in Urban and Regional Studies. 3 Credits.**

A capstone course intended to promote understanding of ethics in urban and regional planning, community politics, economic development, and other areas of urban and regional studies. Scholarly and intellectual discussion of community career and volunteer opportunities. Guidance provided for preparing professional resume documentation and engaging in job search activities.

P: Ur Re St major/minor; min 100 completed credits

Fall Only.

**UR RE ST 452. Planning Theory and Methods. 3 Credits.**

Planning for public and not-for-profit agencies: theory and practical significance of planning; the political and administrative setting of planning operations; and methods of planning analysis such as strategic planning.

P: BUS ADM 216 or COMM SCI 205 or MATH 260

Fall Even.

**UR RE ST 454. Designing Communities and Neighborhoods. 3 Credits.**

The main objective of the course is to allow students to engage and critically assess design elements that create places that foster community identity addressing the vexing problems in residential, commercial, office, recreational and public areas in small cities.

P: UR RE ST 100; REC: UR RE ST 341.

Spring.

**UR RE ST 461. Special Topics in Urban and Regional Studies. 3 Credits.**

A multi-disciplinary investigation into a special topic within urban and regional studies. Includes topics such as education, employment, housing and transportation, and urban and regional policy.

P: written cons of inst.

**UR RE ST 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**UR RE ST 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**UR RE ST 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**UR RE ST 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Women's Studies (WOST)

### Courses

**WOST 205. Women in Literature. 3 Credits.**

Surveys both women as writers and women as characters in literature; emphasizes the wisdom, experiences and insights of women writers and women in literature; concerned with literature from two or more cultures and comparison of the social and human values reflected in the literature of those cultures.

Fall Only.

**WOST 206. Fertility, Reproduction, and Family Planning. 3 Credits.**

Factors that influence reproduction and fertility, i.e., physiological, psychological, social, cultural, and ethical; the methods available for limiting or increasing reproduction; the nature of family planning programs.

P: Hum Biol 102 or Biology 201/202.

Fall and Spring.

**WOST 241. Introduction to Women's & Gender Studies. 3 Credits.**

Interdisciplinary introduction to the study of gender, the influence of gender on social institutions and structures, and an examination of women's lives across the globe historically and today.

Fall and Spring.

**WOST 272. Women in the Performing Arts. 3 Credits.**

This interdisciplinary course examines the contributions of women in the performing arts and looks closely at the factors which constrain and further women's creativity in a variety of performing genres: dance, theater, opera, musical theater, conducting, composition, etc.

Spring Even.

**WOST 299. Travel Course. 1-4 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**WOST 324. The Biology of Women. 3 Credits.**

This course will examine the physiology of the adult female body and will address health issues that are unique to or different in women. Emphasis will be placed on the effects of female sex hormones on multiple processes (reproductive, nervous, endocrine, and cardiovascular) in the body.

P: Hum Biol 102 with at least a C grade or Biology 201/202 with at least a C grade.

Spring.

**WOST 336. Gender Development Across the Lifespan. 3 Credits.**

An interdisciplinary analysis of changes in biological, social, and identity development for males and females throughout the life span.

P: Hum Dev 102 or Soc C D 241. REC: Comm Sci 301.

Fall and Spring.

**WOST 338. World Literatures. 3 Credits.**

A study of selected works from world literatures. A variable content course.

P: English 290 or concurrent enrollment, Jr st.

Fall Only.

**WOST 348. Gender and the Law. 3 Credits.**

The changing legal status of women in relationship to other social forces; major historical landmarks in the development of women's legal rights and current status of such areas as property rights, family law and employment opportunity; legal tools in the struggle for equality.

P: sophomore standing

Fall Even.

**WOST 350. Topics in Women's Studies. 3 Credits.**

Explores a single theme in Women's Studies scholarship from an interdisciplinary perspective. Variable content.

**WOST 360. Women and Gender in First Nations Communities. 3 Credits.**

This course examines the traditional and contemporary status of First Nations women. The course focuses on the fluid definitions and constructions of gender identity before and after Euro-American contact, exploring the intersections of racism, sexism, homophobia, colonialism, globalization.

Decolonization and resistance are primary themes of the course.

REC: FNS 225, FNS 226 or WOST 241.

**WOST 370. History of Sexuality in the U.S.. 3 Credits.**

Historical introduction to sexual behaviors and attitudes in the U.S. from the period of colonization to the present. Includes analyses of the impact of economic, racial, gender, political, and technological change on sexual norms and behaviors.

P: DJS/WOST 241 or History 205 or 206

Spring.

**WOST 379. Women, Art and Image. 3 Credits.**

Examines the impact women have made on art historically as of artists, muses, models, dealers, benefactors and critics with emphasis on images of women in visual culture, deconstructing notions of identity, others and beauty in contemporary society and in the past.

P: jr st; REC: Art 202 or WOST 241

Spring Odd.

**WOST 380. U.S. Women's History. 3 Credits.**

In this course our goal is a richer understanding of women's experiences in the past, ranging from pregnancy and single motherhood to women's struggles to win the right to vote. Through lectures, discussions and films we will explore a variety of women's lives, consider the ways studying women changes our historical perspectives and focus on how interpretations of the past influence our understanding of current social issues.

P: none; REC: jr st and one cse in U.S. history, U.S. lit or Women's Studies.

Fall Only.

**WOST 401. Psychology of Women. 3 Credits.**

The psychology of women examines traditional and feminist approaches to women in psychological theory and research as frameworks for understanding women's development and experience in family, academic, work, and relationship roles. The interacting influences of biology, socialization, and cultural context are considered.

P: Psych 102.

Fall and Spring.

**WOST 437. Feminist Theory. 3 Credits.**

This course is an introduction to feminist theories from a variety of disciplinary perspectives; we will examine the development of feminist theories, their practice and contrasting viewpoints.

P: DJS 241.

Spring Even.

**WOST 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**WOST 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**WOST 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

# Faculty Members

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+ Denotes Emeriti

\* Denotes Graduate Faculty

**Abbott, Clifford F**; Professor; Info & Computing Science; Ph.D., Yale+

**Adsit, Theresa E**; Senior Lecturer; Natural & Applied Sciences; M.S., UW-Milwaukee

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