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# Welcome

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## Publication Date: May 15, 2019

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

- Students entering in Fall 2019 or Spring 2020 will use this edition (**2019-2020**) 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.

### Quick Links:

- Additional campus information can be found on the UW-Green Bay website (<http://www.uwgb.edu>)
- Please see the UW-Green Bay Mission statement here (<http://www.uwgb.edu/univcomm/about-campus/mission.asp>)

# 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 Business Administration, and Democracy and Justice Studies.

Every student completes a major.

## 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:

Dean of Students  
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

- Our Mission (<http://www.uwgb.edu/univcomm/about-campus/mission.asp>)
- At a Glance (<http://www.uwgb.edu/univcomm/about-campus/profile.asp>)
- Degrees and Accreditation (p. 15)
- Institutional Learning Outcomes (<https://www.uwgb.edu/provost/institutional-learning-outcomes>)
- State Authorization for Distance Education (p. 16)
- UW-Green Bay In-Depth (<http://www.uwgb.edu/univcomm/about-campus/indepth.asp>)

## Degrees and Accreditation

### Undergraduate 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 Fine Arts (B.F.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**

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:

- Art (Art Education, Gallery/Museum Practices, Studio Art); Design Arts, National Association of Schools of Art and Design
- 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

**Board of Regents**

- Robert Atwell
- John Robert Behling
- José Delgado
- Tony Evers
- Michael M. Grebe
- Eve Hall
- Tim Higgins
- Mike Jones
- Tracey L. Klein
- Regina Millner
- Janice Mueller
- Drew Petersen
- Ryan L. Ring
- Bryan G. Steil
- S. Mark Tyler
- Gerald Whitburn

**University of Wisconsin-Green Bay**

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

## 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 Organizational Leadership (BA-OL), a Bachelor of Applied Studies in Organizational Leadership (BAS-OL), 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 (MSN).

### Distance Learning Education - State Authorization Reciprocity Agreement

Pursuant to Wis. Stats. Ch. 39.85, et. al, the State of Wisconsin is a member of the State Authorization Reciprocity Agreement (SARA) through the Midwestern Higher Education Compact which regulates the manner in which participating institutions may offer distance learning education to students who reside in other states. The University of Wisconsin-Green Bay is a participating institution in MSARA. The terms and conditions of SARA can be found at <http://nc-sara.org/content/sara-policies-and-standards>. If a student has a complaint that involves distance learning education offered under the terms and conditions of SARA, the student must file a complaint with the institution first to seek resolution. If no resolution is reached, then the student may file a complaint with the Wisconsin Distance Learning Authorization Board (DLAB) through the following State Authorization Reciprocity Complaint Process at the following link: <https://www.wisconsin.edu/student-complaints/> or by email to [afgp@uwsa.edu](mailto:afgp@uwsa.edu). For purposes of this process, a complaint shall be defined as a formal assertion in writing that the terms of this agreement, or of laws, standards or regulations incorporated by the State Authorization Reciprocity Agreements Policies and Standards have been violated by the institution operating under the terms of SARA.

Additional information can be found at <http://www.heab.state.wi.us/DLAB/faq.html>.

### Approved SARA Institutions in Wisconsin

A list of approved SARA Institutions in Wisconsin is available at <https://www.nc-sara.org/states/WI>

### National Council for State Authorization Reciprocity Agreements Complaint Process

Pursuant to the United States Department of Education's Program Integrity Rule, the University of Wisconsin-Green Bay is required to provide all prospective and current students with the contact information of the state agency or agencies that handle complaints against postsecondary education institutions offering distance learning or correspondence education within that state. Students are encouraged to utilize UW-Green Bay's internal complaint or review policies and procedures through the Office of Student Affairs prior to filing a complaint with a state agency or agencies.



For a list of contact information to which a student may file a complaint for each state, visit the State Authorization Resources and Directory (<http://www.sheeo.org/stateauth/stateauth-home.htm>) page on [www.sheeo.org](http://www.sheeo.org) (<http://www.sheeo.org>) and click "**Student Complaint Process, by state**" to download the most recent PDF.

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## Admissions

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- Other Admission Information (p. 21)

## Admission Standards

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.

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

### 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 [www.apply.wisconsin.edu](http://www.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 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 <http://www.uwgb.edu/admissions/deadline/>.

- \* 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 currently \$50. 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. If the application fee is a hardship for your family please submit the application fee waiver <http://www.uwgb.edu/admissions/files/fee-waiver-request.pdf>

## Placement Testing

### 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.

WI Placement Tests are scheduled throughout the state from March through June. 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. A \$30.00 test fee will normally be added to each student's tuition bill in the fall semester.

## Transfer Students

### 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 are started after all transcripts have arrived at UW-Green Bay and the student has been admitted; the final evaluation is held until a final transcript showing grades from the last term is received.

## General Education Requirements

A student who transfers to UW-Green Bay must satisfy UW-Green Bay General Education requirements by completing or transferring courses that meet the UW-Green Bay General Education requirements that are in effect at the time of enrollment.

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.

As listed below, degrees from the following institutions also satisfy all lower-level general education requirements:

o College of Menominee Nation – Associate of Arts and Sciences

o Liberal Arts/University Transfer Associate Degrees from these 5 WI Technical Colleges:

- Chippewa Valley Technical College
- Milwaukee Area Technical College
- Madison Area Technical College
- Nicolet Area Technical College
- Western Technical College

o Any Minnesota State College and University (MnSCU) – Associate of Arts or Associate of Science degree meeting Minnesota Transfer Curriculum (MnTC) requirements.

o Any Illinois community college Associate of Arts or Associate of Science degree meeting the requirements of the Illinois Articulation Initiative Gen Ed Curriculum (IAI GECC).

Students who have completed the Michigan Transfer Agreement (MTA) will have several, but not all, general education requirements satisfied. Students should consult their advisor for more details.

A Bachelor's Degree from a regionally accredited university will satisfy all lower-level general education courses, as well as Math/English Competency. Ethnic Studies may be satisfied by an appropriate transfer course.

## Transferable Coursework

Credit is awarded for college-level course work completed at institutions accredited by a regional or national accrediting organization recognized by the Council for Higher Education Accreditation (CHEA). Courses must be similar in nature, level, and content to a course in our undergraduate curriculum and applicable to one of our academic program

Foreign institutions must be recognized by the Ministry of Education in that country. To receive credit for courses that you have taken at another college or university outside the United States, you must submit your academic records to a professional evaluation service currently recognized by NACES (<https://www.naces.org>) for review. UW-Green Bay recommends one of the following evaluation services:

- Educational Credential Evaluators (ECE) (<http://www.ece.org>)
- World Education Services (WES) (<http://catalog.uwgb.edu/undergraduate/general-information/admissions/transfer-students/%20http://www.wes.org>)

Continuing education courses or units, graduate-level courses, and courses that are remedial, technical, vocational, or doctrinal in nature are not transferable for undergraduate students,

## Special Students

### (Students Not Seeking Degrees)

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/Winterim 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 or Winterim 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

**Early College Credit students** must submit the items specified above for High School Special students, as well as the UW System ECCP participation form. Those forms are available online at <http://www.uwgb.edu/admissions/apply/non-degree/>

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

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## 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 (<http://www.uwgb.edu/bursar/forms-policies>). The Tuition Surcharge Waiver Form that must be submitted is sent to the student email account. The full policy can be reviewed here ([http://www.uwgb.edu/registrar/policies/165\\_credit.asp](http://www.uwgb.edu/registrar/policies/165_credit.asp)). Students should follow directives and submit the form as directed in their individual notice.

## Absence and Attendance Policy

### 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/dean-of-students/assistance-advocacy/bereavement-policy.asp>).
- 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 ([dosmail@uwgb.edu](mailto:dosmail@uwgb.edu)); (920) 465-2152
- 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 (<http://www.uwgb.edu/ds>) (920) 465-2481

## 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.

## 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. Courses that meet General Education requirements that are forgiven will be used to satisfy these degree requirements. Other forgiven courses may be used to satisfy major/minor/certificate requirements must be approved by the faculty advisor/academic department representative as substitutions. Credits that have been forgiven, are not eligible for inclusion in calculating and awarding of All University Honors.

Requests for Academic Forgiveness can be made through the Office of Academic Advising ([advising@uwgb.edu](mailto:advising@uwgb.edu)) but **must be made within 21 calendar days after the last day of final exams of the first semester after readmission.**

## Academic Honors

- Semester Honors (p. 24)
- Graduation Honors (p. 24)

## 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.
- If all grades are not submitted at the time the Dean's List is run on individual student records, the designation may not appear until final grades are received and recorded to the record.

## 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.

AAS candidates are not eligible for graduation honors



## All-University Academic Honors

Acknowledgment of overall academic excellence at the university level upon completion of a Bachelor degree and completing 48 regularly graded (GPA calculations do not include 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 Bachelor 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. All University Honors can be rescinded, increased or added upon final assessment of grades and degree requirements in the final semester.

There are no exceptions to these rules.

## 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.

## Calendars

### 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/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

## 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.

## 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

## Course Adds

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

### Course Adds during the First Two Weeks<sup>1</sup> (Semester-long courses at UW-Green Bay)

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.<sup>2</sup> Please check the [Registration Calendar](http://www.uwgb.edu/registrar/calendar/registration) (<http://www.uwgb.edu/registrar/calendar/registration>) for these deadline dates.

### Late Course Adds (Semester-long courses at UW-Green Bay)

- *Week 3 to last day of classes:* Students must submit a faculty-approved Late Add form. Students will be assessed a late add fee for each course.
- *Students are not able late add courses once final examinations have begun for the semester.*

- <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 for the appropriate semester on the Bursar website for more details (<http://www.uwgb.edu/bursar/term-deadline-calendar>). Please note that financial deadlines are different from academic deadlines.

## Course Drops

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

### Course Drops during the First Two Weeks <sup>1</sup> (*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<sup>2</sup>. Students in courses that are less than 14 weeks in duration can drop the course with no grade assigned, during the 1st week.

### Late Drop ( *Semester-long courses at UW-Green Bay*)

- *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 (p. 34) 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. A DR (drop grade) will appear on the transcript.

### Late Drop (Courses less than 14 weeks in duration)

- From the start of week two until 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 (p. 34) 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> 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 for the appropriate semester on the Bursar website for more details (<http://www.uwgb.edu/bursar/term-deadline-calendar>). Please note that financial deadlines are different from academic deadlines.

## Course Requisites

### Prerequisites:

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, student group 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.

**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 fourteen weeks for one semester, or the equivalent amount of work over a different amount of time, or the equivalent amount of work for other activities as 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, spring or summer semester and may register for a maximum of six credits in the January semester, no exceptions. A student who wants to enroll in more than 18 credits in fall, spring or summer semester must obtain written approval in advance from their faculty or academic advisor using the credit overload petition. Once approved, course(s) enrollment can be completed. Additional tuition and fees will apply. No overload petitions are accepted for the January semester.
- **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.

**Cumulative Grade Point Average (GPA)**

Grade point average for all completed terms at UW-Green Bay. It is calculated by dividing the cumulative total grade points 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.

**Declaration of Major**

Students are admitted with their "Major", "Minor", or "Certificate" of interest noted for advising purposes. All students are required to have an official major and faculty advisor on file with the Registrar's Office by the time they have a total of 45 credits earned. Some majors require additional entrance requirements or addition of an area of emphasis, thus a student must complete the program admit process requirements. These students will be added as Pre-Majors to their area of study. A "Major", "Minor", or "Certificate" is not fully valid until the student is also assigned a faculty advisor. Students should follow the departmental directives for declaring a major/advisor assignment using the resources found in departmental web pages. Students are encouraged to discuss a major with faculty representatives as early as possible in their undergraduate career. The declaration of major/minor/certificate form is available online at <http://www.uwgb.edu/registrar>.

**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.

## Earning a Second Degree

### 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. The subsequent 30 credit requirement should include a minimum of 15 credits that are used to satisfy the requirements for the major 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)

## Educational Status

### Degree-Seeking:

A degree-seeking student is enrolled in a program of study and plans to earn an Associate or Bachelor degree at the undergraduate level.

### Special Student:

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.

Full Time	12 credits
Three-Quarter Time	9-11 credits
Half Time	6-8 credits
Less than Half Time	1-5 credits

## 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 100	C	3	06
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.

## Grading Policy

### Final Grades

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

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.** If an instructor finds they have made a grade error or missed entering a grade, the faculty member can complete a grade change in SIS, using the grading access they are provided, up through the end of the subsequent semester. **Please contact the Registrar's office with any grading issues or questions as needed.**

*\*Failure to add grades in a timely manner delays processing of academic standing, conducting satisfactory academic progress assessment, degree conferral, issuing diplomas and/or transcript documents, reporting of accurate enrollment and degree data to various entities for compliance and can prevent students from registering for subsequent courses.*

## Grade Changes

Missing (N) grades must be updated 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.

Incomplete (I) grades, faculty must submit an incomplete grade form to the Registrar's office documenting outstanding course work, deadline for completion. This grade change should be made no later than the last day of classes in the following semester. If the student does not meet the deadline identified, the grade will lapse to an F = fail grade for that semester.

## Grade Changes AFTER two semesters

Grade changes considered after one subsequent semester must be requested to and approved by the College Dean from the faculty member. The approval should include student name, semester, course taken, new grade to the Registrar's office for an update to be made to the academic record. Grade change requests will not be accepted without Dean approval.

## 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.

A faculty member may change the grade after appeal and can do so in SIS up through the end of the subsequent semester.

## 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.
- **Degree seeking** students may audit a course by requesting a change to the grade basis using the **Grade Change/Audit** form which is approved by the faculty instructor.
- **Special student only auditors (course takers)** use the same Grade Change/Audit (<http://www.uwgb.edu/registrar/forms>) 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/tuition-fees/audit-students>) for more information.
- **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.

- 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

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>)

## 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
DR	Dropped Course	No effect
W	Withdrew	No effect
T	Transfer Course, pass	0.0
PR	Progress in graduate thesis or internship, not complete	0.0
IP	In progress course	0.0
(Grade assigned)	Academic Forgiveness Applied	0.0/Example (F)

## Guidelines for Certificates

The University of Wisconsin Green Bay offers certificates to provide students the opportunity to develop focused expertise in select academic areas, as a means to further their employability, or to enhance their professional qualifications. All certificate programs must have an executive committee which oversees the offering of the certificate. In establishing a new certificate, a clear rationale must be provided by the Executive Committee detailing the purpose and value of that certificate.

### Requirements for Certificates

All certificates must have a minimum of 12 required credits. Those credits can be any combination of lower and upper level courses.

The certificate may be either associated with an academic program or a stand-alone certificate (i.e. a certificate that is not associated with an academic program). If the certificate is a stand-alone certificate, it must demonstrate that it provides for increased employability or enhanced professional qualifications for anyone receiving the certificate.

The Executive Committee's membership must include a minimum of three tenured faculty members. The committee can be an existing Executive Committee, such as a budgetary unit or department, or can be developed among interested faculty. The committee must meet at least once a year and forward copies of minutes for all meetings to the Provost's Office.

The Executive Committee must appoint an advisor for the certificate or have the chair serve that function. The advisor or chair advises students and performs necessary administrative tasks such as approving substitutions.

In order to be awarded a certificate, a student must have a minimum 2.0 Grade Point Average in the certificate's courses and earn 9 credits or one half the total required credits, whichever is greater, in residency at UWGB. The Executive Committee may establish a Grade Point Average higher than 2.0 or additional criteria that must be met to earn a certificate.

Students must declare that they are pursuing a Certificate Program by filing a **Declaration of Major/Minor/Certificate form**.

The Registrar's Office transcribes certificates earned on an academic record when a student completes a degree. Certificate Executive Committees may print and award a separate certificate of completion.

## 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 exceptions are Mathematics, Music, Art, and Theatre.
- The official transcript will include only type of degree and date earned; major(s), minor(s), and All-University Honors, Distinction in the Major and any Semester Honors achieved. Certificates are only transcribed if a Bachelor's 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.
  - Courses may not count for two requirements in a major, minor, professional program or general education.
- 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.

### 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.

## Honors in the Major

(numbered 478, 3 credits)

- Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
- Honors in the Major may not be substituted for a major requirement.
- 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.
  - Students are recognized at Commencement if the Honors in the Major project is completed and minimum GPA requirements are met, in the preceding semester to commencement.
  - Honors in the Major can be awarded, rescinded or All University Honors increased to Summa Cum Laude, in a final semester of completion based on the outcome of the last remaining courses of record. Final GPA calculations, grades and All University Honors designations are not completed at time of commencement due to grading deadlines and degree conferral timeframes.



- There is no residency requirement for Honors in the Major.
- Regular semester/session add and drop deadlines apply; no P-NC grading is permitted.

## Incomplete Grades

### 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 from the instructor.
- The decision to allow an incomplete is entirely at the discretion of the instructor. It is not a right.
- If an incomplete is approved by the faculty instructor, 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 from the instructor.
- 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 at the end of the subsequent semester.
- 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 (fall graduates), January (January 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. If this deadline is not met, students will be removed and added to a future semester for degree conferral.

## Independent Study

(numbered 298; 498, 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.

## Individualized Course Instruction

### Universal Expectations

- 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 (p. 32)
- Independent Study (p. 33)

- Internship/Co-op (p. 34)
- Project/Research Assistantship (p. 34)
- Teaching Assistantship (p. 36)

## Internship/Co-op

(numbered 497, 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.

## Mode of Instruction

- In Person - Faculty and students are scheduled in a particular classroom or laboratory during a set day/time.
- Interactive Video - Faculty and students are scheduled at a particular time at one of several campus sites and interactively use audio, computer and video connections simultaneously.
- Online - Online courses let students and faculty interact with each other as class members entirely over the Internet. Instructional courseware utilizes web pages, discussion groups and UWGB e-mail. Online courses do not meet at a particular time or place, but they are structured within the academic semester timeframe and require class participation several times each week.
- Blended - A blended course is a course where the content is taught using face-to-face and online or “time-out-of-class” learning modes. Blended courses are approximately 40-60% online with the remainder conducted face-to-face.
- Virtual Classroom - Faculty and students interact with each other as class members entirely over the Internet during a set day/time. Faculty and students converse and interact with each other’s coursework while viewing each other in a real-time classroom setting (this would be skype or zoom, etc.)
- In Person w/streaming online capability - Faculty and students are scheduled in a particular classroom or laboratory during a set day/time. Class sessions can be viewed live, but are also recorded for later access via the Internet.

## Petition Process for Late Drop or Withdrawal

1. Petitions (<https://www.uwgb.edu/registrar/forms-petitions/petitions-forms>) can be submitted online or in person. All petitions with appropriate documentation will be evaluated and acted on in a timely manner by the Enrollment Review Committee.
2. 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.
  - a. The student has serious mental or physical health problems verified by a statement from a physician or professional counselor.
  - b. 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.
  - c. The student receives orders being called to military service and cannot return for the semester. Supporting documentation is required.
3. Petition to drop a course or completely withdraw from the University MUST be submitted prior to the last day of the semester that is being petitioned.

## Project/Research Assistantship

(numbered 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.

## Repeat Policy

### 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 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.

## 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.

## Tuition and Fees

### Costs

Fees and tuition are subject to change by action of the University of Wisconsin System Board of Regents and the Wisconsin Legislature. The actual costs for each academic year are available through the Bursar's Office. Consult the Bursar's website at <http://www.uwgb.edu/bursar/>.

### Residency

A student's resident classification is made during the admission process. The determination is fully explained, as is some reciprocity and tuition programs, on the Registrar website (<http://www.uwgb.edu/registrar/residency>).

If you have further questions or want additional information please contact the Residency Examiner at (920) 465-2725 or [registrar@uwgb.edu](mailto:registrar@uwgb.edu).

### Non-Resident Tuition Waivers

Non-resident tuition waivers are available on a competitive basis for students with a record of high academic achievement. Recipients of waivers remain responsible for Wisconsin resident tuition and fees.

### Other Financial Aid

In addition to graduate assistantships, several other grant or aid programs are available. These include Perkins Loans, Stafford Loans, or University work/study awards. Students defined as minority group members may apply for Advanced Opportunity Grants or Wisconsin Indian Student Assistance Grants. For more information, contact the Financial Aid Office at (920) 465-2075.

## Other Fee Related Policy Information

### Tuition Appeals

- Students who wish to appeal institutional charges may do so via the tuition appeal process using the **Appeal Institutional Charges** form. The appeal institutional charges policy is also referenced, using this same link.

- 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.

## Teaching Assistantship

(numbered 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.

## Transfer Credit Policy

It is the policy of UW-Green Bay to accept transfer credits in full compliance with the UW System Board of Regents Transfer Credit Policy (<http://tis.uwgsa.edu/resources/trnpolicy.html>). Some of the basic components of that policy are:

1. The college or university attended must be accredited by an appropriate accreditation association.
2. All courses from a baccalaureate granting institution that is not regionally accredited may be eligible for transfer review by an appropriate UW-Green Bay department chair, or if an equivalent department is nonexistent, by an appropriate UW-Green Bay academic dean.
3. Whenever possible, transfer courses are equated to UW-Green Bay course numbers for equivalent courses. If there is an equivalent department, but not equivalent course, elective credit associated with the department will be granted. In such instances, the UW-Green Bay department would have to be consulted to make a determination whether the transfer elective might be counted toward the major or minor requirements.
4. Granting of academic credit is the responsibility of the faculty but this function is normally carried out by their designee.
5. A course designated as fulfilling a general education/breadth requirement at one UW institution should transfer as general education/breadth at the receiving UW institution. This principle should apply whether or not the receiving institution has a direct course equivalent.

After a student has been admitted as degree seeking, the Office of the Registrar will evaluate completed and in-progress coursework at the time of application. Upon receipt of a final transcript which includes final grades for courses previously in-progress, the credit evaluation will be completed.

## Appeals

If you believe that there has been an error or oversight in your credit evaluation, please contact the Office of the Registrar ([registrar@uwgb.edu](mailto:registrar@uwgb.edu)) for assistance. In the event of an unresolved disagreement with the evaluation, you will be referred to the appropriate academic chairperson for a second review. You should be prepared to furnish a course syllabus or a letter of description from the previous institution if you wish to appeal the initial evaluation. If a satisfactory resolution cannot be reached after conferring with the chairperson, you may then appeal that decision to the appropriate academic dean. The decision of the academic dean shall be considered the final level of appeal.

## 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.

## Withdrawal

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

## Withdraw during First Two Weeks <sup>1</sup>: (*Semester-long courses at UW-Green Bay*)

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<sup>2</sup>. Once a student drops to zero credits of enrollment, the Registrar's office withdraws the student from the semester.

## Late Withdrawal ( *Semester-long courses at UW-Green Bay*)

- 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, a staff member will complete the transaction 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 (p. 34) 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.

## Late Withdrawal ( *Courses less than 14 weeks in duration*)

- Start of week two until 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 (p. 34) 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> 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 for the appropriate semester on the Bursar website for more details (<http://www.uwgb.edu/bursar/term-deadline-calendar>). Please note that financial deadlines are different from academic deadlines.

## 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/public-safety/clery/annual-security-and-fire-safety-report/>

## 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/fpco/>

# 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 Critical Reading (pre-2016 test) or Reading (post-2016 test) 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 Critical Reading scores (pre-2016 test) or Reading scores (post-2016 test) 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.

All international students whose country of origin's primary language is not English will be placed into ENG COMP 164, English Composition for International Students. This course satisfies UW-Green Bay's ENG COMP 100 requirement. The exception to this would be International students who have an ACT English score of 25 or above, or an SAT Critical Reading score of 590 or above, or an SAT Reading score of 32 or above. ENG COMP 105 or ENG COMP 200 may also be required by major.

### ACT English score: 16 or lower

OR

### SAT Critical Reading score: 440 or lower OR SAT Reading score: 24 or lower

The student must take ENG COMP 95 in conjunction with 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 95 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 95 who feel they have been improperly placed may retake the ACT test.

### ACT English score: 17-24

OR

### SAT Critical Reading score: 450-580 OR SAT Reading score: 25-31

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 Critical Reading score: 590-740 OR SAT Reading score: 32-38

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 Critical Reading score: 750 or higher OR SAT Reading score: 39 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.

### If you do NOT have an ACT or SAT score, please follow these guidelines:

1. You may take the Wisconsin English Placement Test (WEPT) to determine your English Composition placement, **OR**
2. You may enroll in ENG COMP 95 **\*and\*** ENG COMP 100 concurrently to satisfy your English Composition competency requirement
  - a. If you are 25 years of age or older **OR** are a veteran of the U. S. armed forces, you may consult with your advisor to self-select ENG COMP 100 without concurrently enrolling in ENG COMP 95

## 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 60 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. Students who have not taken the WMPT and have not satisfactorily completed or transferred in a college-level mathematics course must enroll in MATH 94, MATH 99, COMM SCI 205, or MATH 100 depending on academic program. Students should consult with their advisor to determine the appropriate course.

## 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.

## Official University Calendars

### 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/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

## Colleges

Austin E. Cofrin School of Business (p. 40)

College of Arts, Humanities and Social Sciences (p. 41)

College of Health, Education and Social Welfare (p. 42)

College of Science, Engineering and Technology (p. 42)

## Austin E. Cofrin School of Business

The Cofrin School of Business is a community of teachers and learners dedicated to the exchange of knowledge, skills, and values that enables them to serve their organizations and communities as engaged professionals.

We achieve this mission through the following actions:



- Providing a transformative business education that prepares learners to ethically and critically address complex issues and deliver innovative and sustainable solutions.
- Developing and sustaining partnerships that facilitate the exchange of knowledge and resources with key stakeholders, including students, alumni, faculty, businesses, and other organizations and individuals that comprise the community.
- Developing and retaining faculty members who continually seek to enhance their teaching and service through reflective practice and who participate in high quality and impactful scholarship that incorporates discovery, application, and teaching and learning.

## Majors and Minors

- Accounting (p. 75)
- Business Administration (p. 110) (Finance (p. 115), General Business (p. 116), Human Resource Management (p. 117), Management (p. 118), Marketing (p. 119))
- International Business (p. 121)

## Certificates

- Entrepreneurship (p. 344)
- Environmental Sustainability and Business (p. 344)
- Professional Accounting (p. 348)
- Supply Chain Management (p. 350)

## College of Arts, Humanities and Social Sciences

The College of Arts, Humanities and Social Sciences offers over thirty interdisciplinary and disciplinary majors and minors in the visual and performing arts, humanities, communication, computer and information sciences, and social sciences. Our faculty takes pride in their engagement with students through traditional, online and blended delivery methods. We create unique communities of learners that engage critically and creatively around issues, problems, and solutions. In addition, the College supports community engagement through centers that sponsor speaker series, outreach events, and community-based research. Central to our mission is the promotion of problem-based, engaged learning through close relationships with our students to ensure successful, fulfilling careers and lives. The College of Arts, Humanities and Social Sciences develops students who:

- Are critical and creative thinkers
- Engage in high impact, hands-on learning experiences
- Learn in a diverse and inclusive environment in order to enable success and understand a global, multicultural world
- Develop an understanding of civic and global citizenship and promote this through our community connections
- Can adapt to change and promote improvement

## Majors and Minors

- Art (p. 80) (Art Education (p. 83), Pre-Art Therapy (p. 84), Studio Art (p. 86), Art History (p. 87))
- Arts Management (p. 88) (Gallery and Museum Practices (p. 91))
- Communication (p. 130) (Health Communication (p. 133), Journalism (p. 134), Mass Media (p. 134), Organizational Communication (p. 135), Public Relations (p. 135)) (p. 130)
- Dance (p. 323)
- Democracy and Justice Studies (p. 141) (American Studies (p. 143), Criminal Justice (p. 144), Legal Studies (p. 146), U.S. and the World (p. 147), Women's and Gender Studies (p. 149))
- Design Arts (p. 151)
- Economics (p. 154)
- English (p. 171) (Creative Writing (p. 173), English Education (p. 174), Literature (p. 175))
- Environmental Policy and Planning (p. 177) (Environmental Design (p. 183), Environmental Policy (p. 181), Environmental Planning (p. 180))
- First Nation Studies (p. 191)
- French and Francophone Studies (p. 195)
- Geography (p. 197)
- German (p. 203)
- Global Studies (p. 209)
- History (p. 213)
- Humanities (p. 239) (Ancient and Medieval Studies (p. 243), Digital and Public Humanities (p. 244), World Cultures (p. 245), Environmental Humanities (p. 248), Film and Cinema Studies (p. 249), Linguistics/Teaching English as a Second Language (p. 249), Religious Studies (p. 250))
- Individual Major (p. 252)

- Information Sciences (p. 252) (Data Science (p. 254), Game Studies (p. 255), Information Technology (p. 255))
- Music (Music Education, Instrumental Performance, Vocal Performance, Composition, Individual Studies, Jazz Studies) (p. 262)
- Organizational Leadership (Applied Communication, Arts, Early Childhood, Emergency Management, Environmental Policy Studies, Human Development, Leadership in Public Service, Nonprofit Leadership, Self-Directed) (p. 281)
- Philosophy (p. 288)
- Political Science (p. 292)
- Psychology (Brain, Behavior and Health, Development, General, Mental Health) (p. 296)
- Public Administration (p. 303)
- Sociology (p. 315)
- Spanish and Latin American Studies (p. 316)
- Theatre (Design/Technical, Musical Theatre, Performance, Theatre Studies) (p. 321)
- Urban Studies (p. 334)
- Women's and Gender Studies (p. 339)
- Writing and Applied Arts (p. 341)

## Certificates

- Data Analytics (p. 343)
- Emergency Management (p. 344)
- Environmental Sustainability and Business (p. 344)
- Lesbian, Gay, Bisexual, Transgender, and Queer Studies (p. 345)
- Nonprofit Management (p. 347)
- Spanish/English Translation and Interpretation (p. 349)
- Teaching English as a Second Language (p. 350)

## College of Health, Education and Social Welfare

- The Professional Program in Education (<http://www.uwgb.edu/education>) offers specialization options ranging from teaching Early Childhood to Adolescence. Each member of the program will complete student teaching where they will have hands-on learning on how to be an effective leader in the classroom.
- The Professional Program in Nursing (<http://www.uwgb.edu/nursing>) provides an on-line learning environment where Registered Nurses can earn their Bachelor of Science in Nursing, and where Registered Nurses who currently hold a BSN can earn their Masters of Science in Nursing Leadership and Management.
- The Professional Programs in Social Work (<http://www.uwgb.edu/socwork>) offers both a Bachelor's degree in Social Work and a Masters of Social Work. Students will also complete field experience for the highest level of learning before they graduate.

## Majors and Minors

- Education (p. 157)
- Health Information Management and Technology (p. 210) (Healthcare Management (p. 212), Healthcare Technology (p. 212))
- Nursing (p. 278)
- Social Work (p. 308) (Child Welfare (p. 309), General (p. 311), Substance Abuse (p. 313))

## Certificates

- Healthcare Management (p. 346)
- Physical Education (p. 348)

## College of Science, Engineering and Technology

The College of Science, Engineering and Technology offers a diversity of majors and minors in biology, human biology, chemistry, environmental science, geoscience, mathematics, physics, environmental engineering technology, electrical engineering technology, and mechanical engineering technology, as well as a **new major in mechanical engineering**. Faculty in the College are accomplished teachers and scholars who provide high quality instruction and hands-on teaching and research experiences to students in laboratory and field settings. The College has consistently obtained funding from local, state and federal sources to support campus and community based research projects. The College supports two seminar series (Natural and Applied Science and Human Biology) and several student organizations, while also providing numerous named scholarships for students. The state-of-the art laboratory and research facilities include a scanning electron microscope and human cadavers. In addition to the laboratory and research facilities associated with Human Biology and Natural and Applied Sciences, the College includes the Cofrin Center for Biodiversity and the Environmental Management and Business Institute (EMBI), which both provide research and internship opportunities. The College

has a partnership with the Medical College of Wisconsin, with faculty from Human Biology providing instruction in the Medical College of Wisconsin curriculum.

Students in the College of Science and Technology will have the opportunity to:

- Gain important knowledge and skills pertinent to their chosen field of study
- Develop critical thinking, problem solving, and communication skills
- Engage in hands-on teaching and research experiences
- Utilize modern laboratories and equipment
- Learn in an interdisciplinary environment that promotes diversity and inclusion
- Become a complete student and citizen by participating in internships, travel courses, and other extracurricular activities
- Fully prepare themselves for their next professional ambition – whether it be employment, further credentialing, or graduate/clinical education.

## Majors and Minors

- Biology (p. 92) (Animal Biology (p. 100), Biology for Educators (p. 103), Cell/Molecular (p. 104), Ecology and Conservation (p. 105), Microbiology (p. 107), Pre-Veterinary (p. 108))
- Chemistry (p. 122) (General (p. 129), ACS Chemistry (p. 127), ACS Environmental Chemistry (p. 128))
- Computer Science (p. 137) (Information Assurance and Security (p. 140), Software Engineering (p. 141))
- Engineering (p. 162) (Mechanical Engineering) (<http://catalog.uwgb.edu/undergraduate/programs/engineering/mechanicalmajor>)
- Engineering Technology (p. 163) (Electrical (p. 169), Environmental (p. 169), Mechanical (p. 170))
- Environmental Science (p. 185)
- Geoscience (p. 198)
- Human Biology (p. 217) (General (p. 232), Health Science (p. 234), Exercise Science (p. 230), Cytotechnology (p. 228), Nutritional Sciences/Dietetics (p. 236))
- Mathematics (p. 256) (Mathematics (p. 260), Statistics (p. 260))
- Physics (p. 291)
- Water Science (p. 337)

## Certificates

- Environmental Sustainability and Business (p. 344)

## Undergraduate Degree Components

- General Education Program (p. 45)
- Writing Emphasis (p. 69)
- Writing Competency (p. 68)
- Math Competency (p. 68)
- Capstone Requirement (p. 43)
- Graduation Requirements (p. 66)

## Capstone Requirement

### Capstone - complete one course

- *Capstone courses are taken in the last semester as part of the Bachelor 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.*
- *Honors in the Major courses approved as Capstone courses have additional requirements to enroll into the course, once the course is completed, additional review is done to award Distinction in the Major Honors when a degree is conferred.*

## 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

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Capstone</b>		
ART 402	Advanced Drawing	3
ART 410	Advanced Painting	3
ART 421	Advanced Sculpture	3
ART 431	Advanced Ceramics	3
ART 443	Advanced Problems in Photography	3
ART 453	Advanced Fibers/Textiles	3
ART 463	Advanced Jewelry/Metals	3
ARTS MGT 455	Practicum in Arts Management	3
ARTS MGT 497	Internship	1-12
BIOLOGY 402	Advanced Microbiology	4
BIOLOGY 490	Biology Seminar	1
CHEM 331	Biochemistry Laboratory	1
CHEM 413	Instrumental Analysis	4
COMM 477	Social Media Strategies	3
COMM 478	Honors in the Major	3
COMP SCI 372	Software Engineering	3
COMP SCI 474	Game Engines	3
COMP SCI 478	Honors in the Major	3
COMP SCI 490	Capstone Essay in Computer Science	3
DJS 470	Senior Seminar in Democracy and Justice Studies	3
EDUC 405	Student Teaching	6-12
EDUC 452	Principles of Middle Level Education	3
ENGLISH 400	English Capstone	3
ENGR 460	Senior Design	3
ENV SCI/GEOG 421	Geoscience Field Trip	1-3
ENV SCI/ET/GEOSCI 432	Hydrogeology	3
ENV SCI 467	Capstone in Environmental Science	4
ET 400	Co-op/Internship in Engineering Technology	3
ET 410	Capstone Project	3
FNS 391	First Nations Studies Capstone Seminar	3
HIMT 490	Capstone	3
HISTORY 480	Seminar in History	3
HUM BIOL 331	Science and Religion: Spirit of Inquiry	3
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism	1
HUM BIOL 401	Art and Science	1
HUM BIOL 403	Human Physiology Laboratory	1
HUM BIOL 405	Biotechnology and Ethics	3
HUM BIOL 423	Immunology Lab	1
HUM DEV 494	Capstone	3
HUM DEV 478	Honors in the Major	3
HUM STUD 370	Sustainability through the Humanities	3
HUM STUD 400	Humanities Practicum	3
HUM STUD 480	Humanities Seminar	3
INFO SCI 410	Analytics and Information Problems	3
INFO SCI 478	Honors in the Major	3
MATH 329	Applied Regression Analysis	4
MATH 385	Foundations of Geometry	3
MGMT 482	Strategic Management	3
NURSING 490	Synthesis for Nursing Practice	3
NUT SCI 421	Community Nutrition	4

NUT SCI 487	Nutritional Science Seminar	1
ORG LEAD 400	Organizational Leadership Capstone	3
POL SCI 480	Senior Seminar/Capstone in Political Science	3
PSYCH 494	Capstone in Psychology	3
PU EN AF 430	Seminar in Ethics and Public Action	3
SOC WORK 420	Social Work Methods III	3
THEATRE 480	Theatre Capstone Project	1-3

## 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.

### 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 36-43 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.

***Transfer students who enter UW-Green Bay with 15 or more transfer credits are not required to take a First Year Seminar. However, in order to meet the 36-43 credit general education requirement, they must substitute the First Year Seminar with another course in general education that is a minimum of 3 credits.***

Code	Title	Credits
	<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
Total Credits		36-43

<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/cahss/general-education/overview/](http://www.uwgb.edu/cahss/general-education/overview/) for general education information and petitions.

## Biological Sciences - complete 3 credits

### 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 natural/biological world.

Code	Title	Credits
<b>Biological Sciences</b>		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 203	Principles of Biology: Organisms, Ecology, and Evolution	3
GEOSCI 203	Earth System History	3
HUM BIOL 102	Introduction to Human Biology	3
HUM BIOL/WOST 206	Fertility, Reproduction, and Family Planning	3
HUM BIOL 217	Human Disease and Society	3
HUM BIOL 318	Reproductive Biology	3
HUM BIOL 405	Biotechnology and Ethics	3
NUT SCI 242	Food and Nutritional Health	3
NUT SCI 260	Childhood Obesity: Challenges and Solutions	3

## Ethnic Studies Perspective - complete 3 credits

### Learning Outcome

- Identify and describe ethnic, racial, and cultural contrasts from multiple perspectives.
- Articulate causes and effects of stereotyping and racism.

Code	Title	Credits
<b>Ethnic Studies Perspective</b>		
ART 381	Art of the First Nations	3
ART 382	Precolumbian Art of Mesoamerica	3
ART 383	African Art	3
ART 384	Asian Art	3
EDUC 206	Cultural Images in Materials for Children and Adolescents	3
ENGLISH/FNS 336	American Ethnic Literature	3
ENGLISH 344	African American Literature	3
FNS 210	American Indians In Film	3
FNS 211	Mentoring First Nations Youth	3
FNS 216/UR RE ST 216	Native American Landscapes:Imagined and Lived Spaces	3
FNS 224	First Nations and The Sacred	3
FNS 225	Introduction to First Nations Studies: The Tribal World	3
FNS 226	Introduction to First Nations Studies: Social Justice	3
FNS 301	Oneida Language I	3
FNS 302	Oneida Language II	3
FNS 303	Oneida Language III	3
FNS 304	Oneida Language IV	3
FNS 305	Oneida Language V	3
FNS 306	Oneida Language VI	3
FNS/WOST 360	Women and Gender in First Nations Communities	3
FNS 372	Indigenous Nations Oral and Storytelling Traditions	3
FNS 374	Wisconsin First Nations Ethnohistory	3
FNS 393	First Nations and Education Policy	3
GEOG 211	American Ethnic Minorities	3
HISTORY 207	Introduction to African-American History	3
HISTORY 309	United States Immigration History	3
HISTORY 340	Topics in African American History	3

HMONG 200	Introduction to Hmong Culture	3
HMONG 250	Hmong Community Research	3
HUM STUD 213	Ethnic Diversity and Human Values	3
HUM STUD 351	Interdisciplinary Themes in Humanities	3
MUSIC 363	Jazz History	3
NURSING 492	Special Topics in Nursing (Topic #9 only)	2-4
NUT SCI 202	Ethnic Influences on Nutrition	3
POL SCI 305/UR RE ST 305	Urban Politics and Policy	3
PU EN AF 360	Immigration and Immigration Policy	3
SOC WORK 330	Understanding Diversity, Challenging Oppression: A Service Learning Course for Helping Professionals	3
SOC WORK 380	Cross Cultural Diversity and the Helping Professions	3
SOCIAL 203	Ethnic and Racial Identities	3
UR RE ST 323	Asian American Communities in the United States	3
UR RE ST 324	Latino Communities in the United States	3
WOST 102	Women's Voices	3
WOST 201	Introduction to LGBTQ Studies	3
WOST 247	Latin American and Latina Women	3

## Fine Arts - complete 3 credits

### Learning Outcomes

- Demonstrate technical skills and knowledge necessary to create or perform artistic functions.
- Develop historical, stylistic, cultural or aesthetic knowledge necessary to create or evaluate quality of an art form.

Code	Title	Credits
<b>Fine Arts</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	3
ART 103	History of the Visual Arts II: Renaissance to Modern	3
ART 106	Three Dimensional Design	3
ART 107	Two-Dimensional Design	3
ART 202	Modern Art	3
ART 203	Contemporary Art	3
ART 230	Introduction to Ceramics	3
ART 235	Introduction to Woodworking and Furniture Design	3
ART 250	Introduction to Fibers/Textiles	3
ART 260	Introduction to Jewelry/Metals	3
ART 320	Art and Ideas	3
ART 376	Modern American Culture	3
ART/WOST 379	Women, Art and Image	3
ART 380	History of Photography	3
ART 381	Art of the First Nations	3
ART 382	Precolumbian Art of Mesoamerica	3
ART 383	African Art	3
ART 384	Asian Art	3
ART 483	SELECTED TOPICS	3
ARTS MGT 256	Understanding the Arts	3
ENGLISH 400	English Capstone	3
MUS APP 127	Instrumental Lessons 1	1-2
MUS APP 128	Instrumental Lessons 2	1-2
MUS APP 227	Instrumental Lessons 3	1-2
MUS APP 228	Instrumental Lessons 4	1-2
MUS APP 327	Instrumental Lessons 5	1-3
MUS APP 328	Instrumental Lessons 6	1-3

MUS APP 427	Instrumental Lessons 7	1-3
MUS APP 428	Instrumental Lessons 8	1-3
MUSIC 121	Survey of Western Music	3
MUSIC 170	Fundamentals of Music	3
MUSIC 224	Popular Music Since 1955	3
MUSIC/WOST 272	Women in the Performing Arts	3
MUSIC 362	World Music	3
MUSIC 363	Jazz History	3
MUSIC/THEATRE 364	Musical Theatre History	3
MUS ENS 142	Jazz Combo	1
MUS ENS 143	Jazz Ensemble	1
MUS ENS 144	Woodwind Ensemble	1
MUS ENS 145	Brass Ensemble	1
MUS ENS 146	Contemporary Percussion Ensemble	1
MUS ENS 150	New Music Ensemble	1
MUS ENS 163	Chamber Singers	1
MUS ENS 165	Vocal Jazz Ensemble	1
MUS ENS 166	Opera Workshop	1
MUS ENS 188	Hand Drumming Ensemble	1
MUS ENS 241	Bands and Orchestra	1
MUS ENS 261	University Singers	1
MUS ENS 262	Concert Choir	1
MUS ENS 342	Jazz Combo	1
MUS ENS 343	Jazz Ensemble	1
MUS ENS 344	Woodwind Ensemble	1
MUS ENS 345	Brass Ensemble	1
MUS ENS 346	Contemporary Percussion Ensemble	1
MUS ENS 350	New Music Ensemble	1
MUS ENS 363	Chamber Singers	1
MUS ENS 365	Vocal Jazz Ensemble	1
MUS ENS 366	Opera Workshop	1
MUS ENS 388	Hand Drumming Ensemble	1
MUS ENS 441	Bands and Orchestra	1
MUS ENS 461	University Singers	1
MUS ENS 462	Concert Choir	1
THEATRE 110	Introduction to Theatre Arts	3
THEATRE 128	Jazz Dance I	1
THEATRE 131	Acting I	3
THEATRE 137	Ballet I	1
THEATRE 141	Period Dance Styles	1
THEATRE 145	Modern Dance I	1
THEATRE 161	Tap Dance I	1
THEATRE 190	Introduction to Applied Musical Theatre Voice	1
THEATRE 211	World Theatre and Performance	3
THEATRE 219	UWGB Meets NYC: New York Theatre Trip	1
THEATRE 228	Jazz Dance II	2
THEATRE 241	Improvisation for the Theatre	3
THEATRE 261	Tap Dance II	1
THEATRE 309	Theatre History I: Greek to Elizabethan	3
THEATRE 310	Theatre History II: 17th Century to Realism	3
THEATRE 311	Theatre History III: 20th Century and Contemporary	3
THEATRE 335	Production Practicum: Crews	1



THEATRE 336	Production Practicum: Performance	1
THEATRE 338	Production Practicum: Scene Shop	1
THEATRE 340	Dance History	3

## 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

Code	Title	Credits
<b>First Year Seminar <sup>1</sup></b>		
ART 198	First Year Seminar	3
CHEM 198	First Year Seminar	3
COMM 198	First Year Seminar	3
COMM SCI 198	First Year Seminar	3
DJS 198	First Year Seminar	3
EDUC 198	First Year Seminar	3
ENV SCI 198	First Year Seminar	3
FNS 198	First Year Seminar	3
GEOSCI 198	First Year Seminar	3
HUM BIOL 198	First Year Seminar	3
HUM STUD 198	First Year Seminar	3
INFO SCI 198	First Year Seminar	3
MUSIC 198	First Year Seminar	3
NUT SCI 198	First Year Seminar	3
ORG LEAD 198	Introduction to Leadership	3
PHYSICS 198	First Year Seminar	3
POL SCI 198	First Year Seminar	3
PSYCH 198	First Year Seminar	3
PU EN AF 198	First Year Seminar	3
THEATRE 198	First Year Seminar	3
UR RE ST 198	First Year Seminar	3

<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 and engage in informed judgments of global issues and individual and cultural differences outside the United States.
- Explore issues that cross geographic, political, economic and/or socio-cultural boundaries outside the United States.

Code	Title	Credits
<b>Global Culture</b>		
ANTHRO 100	Varieties of World Culture	3
ANTHRO 304	Family, Kin, and Community	3
ANTHRO 306	Environmental Anthropology	3
ANTHRO 320	Myth, Ritual, Symbol and Religion	3
ART 382	Pre Columbian Art of Mesoamerica	3
ART 383	African Art	3

ART 384	Asian Art	3
ENGLISH 218	World Literatures	3
ENGLISH 219	World Literatures II	3
ENGLISH/WOST 338	World Literatures	3
FRENCH 202	Intermediate French Language II	3
FRENCH 320	Intermediate Composition and Conversation	3
FRENCH 325	Advanced French Conversation and Composition	3
FRENCH 329	Representative French Authors	3
GEOG 102/UR RE ST 102	World Regions and Concepts: A Geographic Analysis	3
GERMAN 202	Intermediate German Language II	3
GERMAN 320	Intermediate German Conversation and Composition	3
GERMAN 325	Advanced German Conversation and Composition	3
GERMAN 329	Representative German Authors	3
HISTORY 356	History of Modern Africa	3
HUM BIOL 217	Human Disease and Society	3
HUM BIOL 331	Science and Religion: Spirit of Inquiry	3
HUM BIOL 322	Epidemiology	3
HUM STUD 100	Living the Humanities	3
HUM STUD/HISTORY 103	World Civilizations I	3
HUM STUD/HISTORY 104	World Civilizations II	3
HUM STUD 326	Non-Western Religions	3
HUM STUD/GERMAN 356	German Culture	3
HUM STUD/GERMAN 357	German Cinema	3
HUM STUD 360	Globalization and Cultural Conflict	3
HUM STUD 383	Contemporary Cultural Issues	3
HUM STUD 384	Topics in World Cultures	3
MKTG 421	International Marketing	3
MUSIC 362	World Music	3
NURSING 492	Special Topics in Nursing	2-4
	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	3
PHILOS 216	Introduction to Asian Philosophy	3
PHILOS 351	Happiness and the Good Life	3
POL SCI 100	Global Politics and Society	3
POL SCI 351	Comparative Politics	3
POL SCI 353	Politics of Developing Areas	3
SPANISH 202	Intermediate Spanish Language II	3
SPANISH 225	Composition and Conversation I	3
SPANISH 226	Composition and Conversation II	3
SPANISH 329	Representative Spanish and Latin American Authors	3
THEATRE 211	World Theatre and Performance	3
UR RE ST 201	City Life and Globalization	3
	any 299-level Travel Course	
	any 499-level Travel Course	

## Humanities - complete 6 credits

### Learning Outcomes

- Describe 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.
- Articulate individual and social values within cultures and the implications of decisions made on the basis of those values.

Code	Title	Credits
<b>Humanities <sup>1</sup></b>		
ENGLISH 104	Introduction to Literature	3
ENGLISH 212	Introduction to Creative Writing	3
ENGLISH 214	Introduction to English Literature I	3
ENGLISH 215	Introduction to English Literature II	3
ENGLISH 216	Introduction to American Literature I	3
ENGLISH 217	Introduction to American Literature II	3
ENGLISH 218	World Literatures	3
ENGLISH 219	World Literatures II	3
ENGLISH 264	Topics in Literature	3
ENGLISH 315	The British Novel	3
ENGLISH 333	Literary Themes	3
ENGLISH 400	English Capstone	3
FNS 210	American Indians In Film	3
FNS 224	First Nations and The Sacred	3
FNS 372	Indigenous Nations Oral and Storytelling Traditions	3
FNS 374	Wisconsin First Nations Ethnohistory	3
FNS/HUM STUD 385	First Nations Intellectual Traditions	3
FNS 391	First Nations Studies Capstone Seminar	3
FNS 392	First Nations Justice and Tribal Governments	3
FNS 393	First Nations and Education Policy	3
GERMAN 358	German Politics and Society	3
HISTORY 205	American History to 1865	3
HISTORY 206	History of the United States from 1865 to the Present	3
HISTORY 207	Introduction to African-American History	3
HUM STUD 100	Living the Humanities	3
HISTORY/HUM STUD 101	Foundations of Western Culture I	3
HISTORY/HUM STUD 102	Foundations of Western Culture II	3
HISTORY/HUM STUD 103	World Civilizations I	3
HISTORY/HUM STUD 104	World Civilizations II	3
HUM STUD 110	Introduction to Film	3
HUM STUD 201	Introduction to the Humanities	3
HUM STUD 351	Interdisciplinary Themes in Humanities	3
HUM STUD 360	Globalization and Cultural Conflict	3
HUM STUD 375	Humanities, Business and Critical Thinking	3
HUM STUD 383	Contemporary Cultural Issues	3
HUM STUD 384	Topics in World Cultures	3
PHILOS 101	Introduction to Philosophy	3
PHILOS 102	Contemporary Ethical Issues	3
PHILOS 103	Logic and Reasoning	3
PHILOS 105	Is Morality for Sale?	3
PHILOS 107	Philosophy of Love, Sex, and Friendship	3
PHILOS 110	Thinking Critically	3
PHILOS 212	Philosophy, Religion, and Science	3
PHILOS 213	Ancient Philosophy	3

PHILOS 214	Early Modern Philosophy	3
PHILOS 216	Introduction to Asian Philosophy	3
PHILOS 217	Introduction to the Philosophy of Religion	3
PHILOS 220	Environmental Ethics	3
PHILOS 227	Business Ethics	3
PHILOS 237	Technology, Values, and Society	3
PHILOS 251	Ethics of Engineering and Technology	3
PHILOS 351	Happiness and the Good Life	3
PHILOS 401	Plato and Aristotle	3
WOST 102	Women's Voices	3
WOST 203	Women in Popular Culture	3
WOST 205/ENGLISH 206	Women in Literature	3
WOST 238	Sociological Perspectives on Gender	3
WOST 247	Latin American and Latina Women	3

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

## Natural Sciences - complete 3 credits

### 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.

Code	Title	Credits
<b>Natural Sciences</b>		
CHEM 104	Survey of General Chemistry	4
CHEM 105	Survey of Organic and Biochemistry	3
CHEM 108	Survey of General, Organic and Biochemistry	3
CHEM 201	Math for Chemistry Discussion: Principles of Chemistry I	1
CHEM 202	Math for Chemistry Discussion: Principles of Chemistry II	1
CHEM 211	Principles of Chemistry I	4
ENV SCI 102	Introduction to Environmental Sciences	3
ENV SCI 303	Environmental Sustainability	3
ET 206	Chemistry for Engineers	5
GEOSCI 102	Natural Hazards	3
GEOSCI 202	Physical Geology	4
GEOSCI 222	Ocean of Air: Weather and Climate	3
INFO SCI 201	Information, Computers and Society	3
PHYSICS 141	Astronomy	3
PHYSICS 143	The Solar System	3
PHYSICS 144	Stars, Galaxies and the Universe	3
PHYSICS 180	Concepts of Physics	3
PHYSICS 201	Principles of Physics I	5

## Quantitative Literacy - complete 3 credits

### Learning Outcomes

- Demonstrate competence in performing quantitative operations.
- Apply analytical concepts and operations to interpret models and aid in problem-solving, decision-making, and other real-world problems.

Code	Title	Credits
<b>Quantitative Literacy</b>		
ACCTG 201	Principles of Financial Accounting	4
BUS ADM 216	Business Statistics	4
CHEM 201	Math for Chemistry Discussion: Principles of Chemistry I	1

CHEM 202	Math for Chemistry Discussion: Principles of Chemistry II	1
CHEM 211	Principles of Chemistry I	4
COMM SCI 205	Social Science Statistics	4
ECON 203	Micro Economic Analysis	3
ECON 210	Quantitative Methods for Economists	3
GEOG 210	Human Geography and Concepts	3
HIMT 350	Statistics for Healthcare	3
MATH 100	Math Appreciation	3
MATH 102	Quantitative Reasoning	3
MATH 202	Calculus and Analytic Geometry I	4
MATH 203	Calculus and Analytic Geometry II	4
MATH 260	Introductory Statistics	4
PHILOS 103	Logic and Reasoning	3
PHYSICS 103	Fundamentals of Physics I	5
PHYSICS 201	Principles of Physics I	5
POL SCI 318	Political Behavior	3
THEATRE 221	Stagecraft	4
THEATRE 223	Computer Applications for Theatre	3
THEATRE 323	Stage Lighting	3
MUSIC 116 & MUSIC 253 & MUSIC 254	Ear Training and Sight Singing II and Music Theory III and Music Theory IV	7

## 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 two different social sciences.

Code	Title	Credits
<b>Social Sciences <sup>1</sup></b>		
ANTHRO 100	Varieties of World Culture	3
ANTHRO 150	Food Culture & Identity	3
ANTHRO 304	Family, Kin, and Community	3
ANTHRO 306	Environmental Anthropology	3
ANTHRO 314	Cultures of the World	3
ANTHRO 320	Myth, Ritual, Symbol and Religion	3
ANTHRO 348	Economic Anthropology	3
BUS ADM 202	Business and Its Environment	3
BUS ADM 206	Law and the Individual	3
COMM SCI 145	21st Century Citizen	2
COMM SCI 146	GPS Spring Seminar	1
COMM SCI 301	Foundations for Social Research	3
DJS 101	Introduction to Democracy and Justice Studies	3
DJS 204	Freedom and Social Control	3
DJS 221	American Law in Historical Perspective	3
DJS/WOST 241	Introduction to Women's & Gender Studies	3
ECON 102	Economics of the Modern World	3
ECON 202	Macro Economic Analysis	3
ECON 203	Micro Economic Analysis	3
ECON/DJS 307	History of Economic Thought	3
EDUC 206	Cultural Images in Materials for Children and Adolescents	3
GEOG 102/UR RE ST 102	World Regions and Concepts: A Geographic Analysis	3
GEOG 210	Human Geography and Concepts	3

GEOG 211	American Ethnic Minorities	3
GEOG 321/PU EN AF 321	Coastal Resources Policy and Management	3
GEOG 341/UR RE ST 341	Urban Geography	3
GEOG 370/UR RE ST 370	Geography of South America	3
ORG LEAD 497	Internship	1-6
POL SCI 100	Global Politics and Society	3
POL SCI 101	American Government and Politics	3
POL SCI 102	Introduction to Politics	3
POL SCI 120	Politics of Crime and Punishment	3
POL SCI 202/PU EN AF 202	Introduction to Public Policy	3
POL SCI 301/PU EN AF 301	Environmental Politics and Policy	3
POL SCI 353	Politics of Developing Areas	3
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy	3
POL SCI 480	Senior Seminar/Capstone in Political Science	3
PSYCH 102	Introduction to Psychology	3
PSYCH 203	Introduction to Lifespan Development	3
PU EN AF 102	Environment and Society	3
PU EN AF 215	Introduction to Public Administration	3
PU EN AF 225	Introduction to the Nonprofit Sector	3
PU EN AF 315	Public and Non-Profit Management	3
PU EN AF 323	Sustainable Land Use	3
PU EN AF 324	Transitioning to Sustainable Communities	3
PU EN AF 326	Philanthropy: Civic Engagement through Giving	3
PU EN AF 345	Human Resource and Risk Management	3
PU EN AF 360	Immigration and Immigration Policy	3
PU EN AF 425	Fundraising and Marketing for Nonprofits	3
PU EN AF 428	Public and Nonprofit Program Evaluation	3
SOC WORK 202	Introduction to Human Services	3
SOC WORK 250	You and Your Future: Living and Working in an Aging Society	3
SOC WORK 275	Foundations of Social Welfare Policy	3
SOC WORK 375	Family Principles and Patterns	3
SOCIO 101	Introduction to Sociology	3
SOCIO 130	Contemporary Social Problems	3
SOCIO 160	Sociology of Human Sexuality	3
SOCIO 203	Ethnic and Racial Identities	3
SOCIO 220	Sociology of Marriage and the Family	3
SOCIO 235	Introduction to Social Psychology	3
UR RE ST 100	Introduction to Urban Studies	3
UR RE ST 201	City Life and Globalization	3
UR RE ST 205	Urban Social Problems	3
UR RE ST 324	Latino Communities in the United States	3
WOST 201	Introduction to LGBTQ Studies	3
WOST 238	Sociological Perspectives on Gender	3

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

## **Sustainability Perspective - complete 3 credits**

### **Learning Outcomes**

- Think critically regarding the array and implications of alternative sustainability definitions and describe why actions to achieve sustainability are complex and controversial.
- Discuss sustainability within the context of ethical decision-making and engage in informed judgments about environmental problems as socially responsible citizens.

Code	Title	Credits
<b>Sustainability Perspective</b>		
ANTHRO 306	Environmental Anthropology	3
ECON 305/PU EN AF 305	Natural Resources Economic Policy	3
ENGLISH 333	Literary Themes	3
ENV SCI 260	Energy and Society	3
ENV SCI 301	Radioactivity: Past, Present, and Future	3
ENV SCI 303	Environmental Sustainability	3
ENV SCI/ET 334	Solid Waste Management	3
ENV SCI 460	Resource Management Strategy	3
ENV SCI 469	Conservation Biology	4
ET 420	Lean Processes	3
FNS 210	American Indians In Film	3
FNS 216/UR RE ST 216	Native American Landscapes:Imagined and Lived Spaces	3
FNS 224	First Nations and The Sacred	3
FNS 225	Introduction to First Nations Studies: The Tribal World	3
FNS 226	Introduction to First Nations Studies: Social Justice	3
FNS 301	Oneida Language I	3
FNS 302	Oneida Language II	3
FNS 303	Oneida Language III	3
FNS 304	Oneida Language IV	3
FNS 305	Oneida Language V	3
FNS 306	Oneida Language VI	3
FNS 372	Indigenous Nations Oral and Storytelling Traditions	3
FNS 374	Wisconsin First Nations Ethnohistory	3
FNS/HUM STUD 385	First Nations Intellectual Traditions	3
FNS 391	First Nations Studies Capstone Seminar	3
FNS 392	First Nations Justice and Tribal Governments	3
FNS 393	First Nations and Education Policy	3
HISTORY 220	American Environmental History	3
GEOG 321/PU EN AF 321	Coastal Resources Policy and Management	3
HUM BIOL 205	Biotechnology and Human Values	3
HUM BIOL/WOST 206	Fertility, Reproduction, and Family Planning	3
HUM BIOL 215	Personal Health Issues	3
HUM BIOL 217	Human Disease and Society	3
HUM BIOL 250	Fitness for Life	3
HUM BIOL 322	Epidemiology	3
HUM BIOL 405	Biotechnology and Ethics	3
HUM STUD 370	Sustainability through the Humanities	3
NUT SCI 250	World Food and Population Issues	3
PHILOS 220	Environmental Ethics	3
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy	3
PSYCH 380	Conservation Psychology	3
PU EN AF 102	Environment and Society	3
PU EN AF 323	Sustainable Land Use	3
PU EN AF 324	Transitioning to Sustainable Communities	3
WATER 201	Introduction to Water Science	3

## Biological Sciences

### Biological Sciences - Complete 3 credits

#### 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 natural/biological world.

Code	Title	Credits
<b>Biological Sciences</b>		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 203	Principles of Biology: Organisms, Ecology, and Evolution	3
GEOSCI 203	Earth System History	3
HUM BIOL 102	Introduction to Human Biology	3
HUM BIOL/WOST 206	Fertility, Reproduction, and Family Planning	3
HUM BIOL 217	Human Disease and Society	3
HUM BIOL 318	Reproductive Biology	3
HUM BIOL 405	Biotechnology and Ethics	3
NUT SCI 242	Food and Nutritional Health	3
NUT SCI 260	Childhood Obesity: Challenges and Solutions	3

## Ethnic Studies Perspective

### Ethnic Studies Perspective - complete 3 credits

#### Learning Outcome

- Identify and describe ethnic, racial, and cultural contrasts from multiple perspectives.
- Articulate causes and effects of stereotyping and racism.

Code	Title	Credits
<b>Ethnic Studies Perspective</b>		
ART 381	Art of the First Nations	3
ART 382	Precolumbian Art of Mesoamerica	3
ART 383	African Art	3
ART 384	Asian Art	3
EDUC 206	Cultural Images in Materials for Children and Adolescents	3
ENGLISH/FNS 336	American Ethnic Literature	3
ENGLISH 344	African American Literature	3
FNS 210	American Indians In Film	3
FNS 211	Mentoring First Nations Youth	3
FNS 216/UR RE ST 216	Native American Landscapes:Imagined and Lived Spaces	3
FNS 224	First Nations and The Sacred	3
FNS 225	Introduction to First Nations Studies: The Tribal World	3
FNS 226	Introduction to First Nations Studies: Social Justice	3
FNS 301	Oneida Language I	3
FNS 302	Oneida Language II	3
FNS 303	Oneida Language III	3
FNS 304	Oneida Language IV	3
FNS 305	Oneida Language V	3
FNS 306	Oneida Language VI	3
FNS/WOST 360	Women and Gender in First Nations Communities	3
FNS 372	Indigenous Nations Oral and Storytelling Traditions	3
FNS 374	Wisconsin First Nations Ethnohistory	3
FNS 393	First Nations and Education Policy	3



GEOG 211	American Ethnic Minorities	3
HISTORY 207	Introduction to African-American History	3
HISTORY 309	United States Immigration History	3
HISTORY 340	Topics in African American History	3
HMONG 200	Introduction to Hmong Culture	3
HMONG 250	Hmong Community Research	3
HUM STUD 213	Ethnic Diversity and Human Values	3
HUM STUD 351	Interdisciplinary Themes in Humanities	3
MUSIC 363	Jazz History	3
NURSING 492	Special Topics in Nursing (Topic #9 only)	2-4
NUT SCI 202	Ethnic Influences on Nutrition	3
POL SCI 305/UR RE ST 305	Urban Politics and Policy	3
PU EN AF 360	Immigration and Immigration Policy	3
SOC WORK 330	Understanding Diversity, Challenging Oppression: A Service Learning Course for Helping Professionals	3
SOC WORK 380	Cross Cultural Diversity and the Helping Professions	3
SOCIAL 203	Ethnic and Racial Identities	3
UR RE ST 323	Asian American Communities in the United States	3
UR RE ST 324	Latino Communities in the United States	3
WOST 102	Women's Voices	3
WOST 201	Introduction to LGBTQ Studies	3
WOST 247	Latin American and Latina Women	3

## Fine Arts

### Fine Arts - complete 3 credits

#### Learning Outcomes

- Demonstrate technical skills and knowledge necessary to create or perform artistic functions.
- Develop historical, stylistic, cultural or aesthetic knowledge necessary to create or evaluate quality of an art form.

Code	Title	Credits
<b>Fine Arts</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	3
ART 103	History of the Visual Arts II: Renaissance to Modern	3
ART 106	Three Dimensional Design	3
ART 107	Two-Dimensional Design	3
ART 202	Modern Art	3
ART 203	Contemporary Art	3
ART 230	Introduction to Ceramics	3
ART 235	Introduction to Woodworking and Furniture Design	3
ART 250	Introduction to Fibers/Textiles	3
ART 260	Introduction to Jewelry/Metals	3
ART 320	Art and Ideas	3
ART 376	Modern American Culture	3
ART/WOST 379	Women, Art and Image	3
ART 380	History of Photography	3
ART 381	Art of the First Nations	3
ART 382	Precolumbian Art of Mesoamerica	3
ART 383	African Art	3
ART 384	Asian Art	3
ART 483	SELECTED TOPICS	3
ARTS MGT 256	Understanding the Arts	3
ENGLISH 400	English Capstone	3

MUS APP 127	Instrumental Lessons 1	1-2
MUS APP 128	Instrumental Lessons 2	1-2
MUS APP 227	Instrumental Lessons 3	1-2
MUS APP 228	Instrumental Lessons 4	1-2
MUS APP 327	Instrumental Lessons 5	1-3
MUS APP 328	Instrumental Lessons 6	1-3
MUS APP 427	Instrumental Lessons 7	1-3
MUS APP 428	Instrumental Lessons 8	1-3
MUSIC 121	Survey of Western Music	3
MUSIC 170	Fundamentals of Music	3
MUSIC 224	Popular Music Since 1955	3
MUSIC/WOST 272	Women in the Performing Arts	3
MUSIC 362	World Music	3
MUSIC 363	Jazz History	3
MUSIC/THEATRE 364	Musical Theatre History	3
MUS ENS 142	Jazz Combo	1
MUS ENS 143	Jazz Ensemble	1
MUS ENS 144	Woodwind Ensemble	1
MUS ENS 145	Brass Ensemble	1
MUS ENS 146	Contemporary Percussion Ensemble	1
MUS ENS 150	New Music Ensemble	1
MUS ENS 163	Chamber Singers	1
MUS ENS 165	Vocal Jazz Ensemble	1
MUS ENS 166	Opera Workshop	1
MUS ENS 188	Hand Drumming Ensemble	1
MUS ENS 241	Bands and Orchestra	1
MUS ENS 261	University Singers	1
MUS ENS 262	Concert Choir	1
MUS ENS 342	Jazz Combo	1
MUS ENS 343	Jazz Ensemble	1
MUS ENS 344	Woodwind Ensemble	1
MUS ENS 345	Brass Ensemble	1
MUS ENS 346	Contemporary Percussion Ensemble	1
MUS ENS 350	New Music Ensemble	1
MUS ENS 363	Chamber Singers	1
MUS ENS 365	Vocal Jazz Ensemble	1
MUS ENS 366	Opera Workshop	1
MUS ENS 388	Hand Drumming Ensemble	1
MUS ENS 441	Bands and Orchestra	1
MUS ENS 461	University Singers	1
MUS ENS 462	Concert Choir	1
THEATRE 110	Introduction to Theatre Arts	3
THEATRE 128	Jazz Dance I	1
THEATRE 131	Acting I	3
THEATRE 137	Ballet I	1
THEATRE 141	Period Dance Styles	1
THEATRE 145	Modern Dance I	1
THEATRE 161	Tap Dance I	1
THEATRE 190	Introduction to Applied Musical Theatre Voice	1
THEATRE 211	World Theatre and Performance	3
THEATRE 219	UWGB Meets NYC: New York Theatre Trip	1
THEATRE 228	Jazz Dance II	2

THEATRE 241	Improvisation for the Theatre	3
THEATRE 261	Tap Dance II	1
THEATRE 309	Theatre History I: Greek to Elizabethan	3
THEATRE 310	Theatre History II: 17th Century to Realism	3
THEATRE 311	Theatre History III: 20th Century and Contemporary	3
THEATRE 335	Production Practicum: Crews	1
THEATRE 336	Production Practicum: Performance	1
THEATRE 338	Production Practicum: Scene Shop	1
THEATRE 340	Dance History	3

## 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

Code	Title	Credits
<b>First Year Seminar <sup>1</sup></b>		
ART 198	First Year Seminar	3
CHEM 198	First Year Seminar	3
COMM 198	First Year Seminar	3
COMM SCI 198	First Year Seminar	3
DJS 198	First Year Seminar	3
EDUC 198	First Year Seminar	3
ENV SCI 198	First Year Seminar	3
FNS 198	First Year Seminar	3
GEOSCI 198	First Year Seminar	3
HUM BIOL 198	First Year Seminar	3
HUM STUD 198	First Year Seminar	3
INFO SCI 198	First Year Seminar	3
MUSIC 198	First Year Seminar	3
NUT SCI 198	First Year Seminar	3
ORG LEAD 198	Introduction to Leadership	3
PHYSICS 198	First Year Seminar	3
POL SCI 198	First Year Seminar	3
PSYCH 198	First Year Seminar	3
PU EN AF 198	First Year Seminar	3
THEATRE 198	First Year Seminar	3
UR RE ST 198	First Year Seminar	3

<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 and engage in informed judgments of global issues and individual and cultural differences outside the United States.
- Explore issues that cross geographic, political, economic and/or socio-cultural boundaries outside the United States.

Code	Title	Credits
<b>Global Culture</b>		
ANTHRO 100	Varieties of World Culture	3
ANTHRO 304	Family, Kin, and Community	3
ANTHRO 306	Environmental Anthropology	3
ANTHRO 320	Myth, Ritual, Symbol and Religion	3
ART 382	Precolumbian Art of Mesoamerica	3
ART 383	African Art	3
ART 384	Asian Art	3
ENGLISH 218	World Literatures	3
ENGLISH 219	World Literatures II	3
ENGLISH/WOST 338	World Literatures	3
FRENCH 202	Intermediate French Language II	3
FRENCH 320	Intermediate Composition and Conversation	3
FRENCH 325	Advanced French Conversation and Composition	3
FRENCH 329	Representative French Authors	3
GEOG 102/UR RE ST 102	World Regions and Concepts: A Geographic Analysis	3
GERMAN 202	Intermediate German Language II	3
GERMAN 320	Intermediate German Conversation and Composition	3
GERMAN 325	Advanced German Conversation and Composition	3
GERMAN 329	Representative German Authors	3
HISTORY 356	History of Modern Africa	3
HUM BIOL 217	Human Disease and Society	3
HUM BIOL 331	Science and Religion: Spirit of Inquiry	3
HUM BIOL 322	Epidemiology	3
HUM STUD 100	Living the Humanities	3
HUM STUD/HISTORY 103	World Civilizations I	3
HUM STUD/HISTORY 104	World Civilizations II	3
HUM STUD 326	Non-Western Religions	3
HUM STUD/GERMAN 356	German Culture	3
HUM STUD/GERMAN 357	German Cinema	3
HUM STUD 360	Globalization and Cultural Conflict	3
HUM STUD 383	Contemporary Cultural Issues	3
HUM STUD 384	Topics in World Cultures	3
MKTG 421	International Marketing	3
MUSIC 362	World Music	3
NURSING 492	Special Topics in Nursing	2-4
	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	3
PHILOS 216	Introduction to Asian Philosophy	3
PHILOS 351	Happiness and the Good Life	3
POL SCI 100	Global Politics and Society	3

POL SCI 351	Comparative Politics	3
POL SCI 353	Politics of Developing Areas	3
SPANISH 202	Intermediate Spanish Language II	3
SPANISH 225	Composition and Conversation I	3
SPANISH 226	Composition and Conversation II	3
SPANISH 329	Representative Spanish and Latin American Authors	3
THEATRE 211	World Theatre and Performance	3
UR RE ST 201	City Life and Globalization	3
any 299-level Travel Course		
any 499-level Travel Course		

## Humanities

### Humanities - complete 6 credits

#### Learning Outcomes

- Describe 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.
- Articulate individual and social values within cultures and the implications of decisions made on the basis of those values.

Code	Title	Credits
<b>Humanities <sup>1</sup></b>		
ENGLISH 104	Introduction to Literature	3
ENGLISH 212	Introduction to Creative Writing	3
ENGLISH 214	Introduction to English Literature I	3
ENGLISH 215	Introduction to English Literature II	3
ENGLISH 216	Introduction to American Literature I	3
ENGLISH 217	Introduction to American Literature II	3
ENGLISH 218	World Literatures	3
ENGLISH 219	World Literatures II	3
ENGLISH 264	Topics in Literature	3
ENGLISH 315	The British Novel	3
ENGLISH 333	Literary Themes	3
ENGLISH 400	English Capstone	3
FNS 210	American Indians In Film	3
FNS 224	First Nations and The Sacred	3
FNS 372	Indigenous Nations Oral and Storytelling Traditions	3
FNS 374	Wisconsin First Nations Ethnohistory	3
FNS/HUM STUD 385	First Nations Intellectual Traditions	3
FNS 391	First Nations Studies Capstone Seminar	3
FNS 392	First Nations Justice and Tribal Governments	3
FNS 393	First Nations and Education Policy	3
GERMAN 358	German Politics and Society	3
HISTORY 205	American History to 1865	3
HISTORY 206	History of the United States from 1865 to the Present	3
HISTORY 207	Introduction to African-American History	3
HUM STUD 100	Living the Humanities	3
HISTORY/HUM STUD 101	Foundations of Western Culture I	3
HISTORY/HUM STUD 102	Foundations of Western Culture II	3
HISTORY/HUM STUD 103	World Civilizations I	3
HISTORY/HUM STUD 104	World Civilizations II	3
HUM STUD 110	Introduction to Film	3
HUM STUD 201	Introduction to the Humanities	3

HUM STUD 351	Interdisciplinary Themes in Humanities	3
HUM STUD 360	Globalization and Cultural Conflict	3
HUM STUD 375	Humanities, Business and Critical Thinking	3
HUM STUD 383	Contemporary Cultural Issues	3
HUM STUD 384	Topics in World Cultures	3
PHILOS 101	Introduction to Philosophy	3
PHILOS 102	Contemporary Ethical Issues	3
PHILOS 103	Logic and Reasoning	3
PHILOS 105	Is Morality for Sale?	3
PHILOS 107	Philosophy of Love, Sex, and Friendship	3
PHILOS 110	Thinking Critically	3
PHILOS 212	Philosophy, Religion, and Science	3
PHILOS 213	Ancient Philosophy	3
PHILOS 214	Early Modern Philosophy	3
PHILOS 216	Introduction to Asian Philosophy	3
PHILOS 217	Introduction to the Philosophy of Religion	3
PHILOS 220	Environmental Ethics	3
PHILOS 227	Business Ethics	3
PHILOS 237	Technology, Values, and Society	3
PHILOS 251	Ethics of Engineering and Technology	3
PHILOS 351	Happiness and the Good Life	3
PHILOS 401	Plato and Aristotle	3
WOST 102	Women's Voices	3
WOST 203	Women in Popular Culture	3
WOST 205/ENGLISH 206	Women in Literature	3
WOST 238	Sociological Perspectives on Gender	3
WOST 247	Latin American and Latina Women	3

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

## Natural Sciences

### Natural Sciences - complete three credits

#### 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.

Code	Title	Credits
<b>Natural Sciences</b>		
CHEM 104	Survey of General Chemistry	4
CHEM 105	Survey of Organic and Biochemistry	3
CHEM 108	Survey of General, Organic and Biochemistry	3
CHEM 201	Math for Chemistry Discussion: Principles of Chemistry I	1
CHEM 202	Math for Chemistry Discussion: Principles of Chemistry II	1
CHEM 211	Principles of Chemistry I	4
ENV SCI 102	Introduction to Environmental Sciences	3
ENV SCI 303	Environmental Sustainability	3
ET 206	Chemistry for Engineers	5
GEOSCI 102	Natural Hazards	3
GEOSCI 202	Physical Geology	4
GEOSCI 222	Ocean of Air: Weather and Climate	3
INFO SCI 201	Information, Computers and Society	3
PHYSICS 141	Astronomy	3

PHYSICS 143	The Solar System	3
PHYSICS 144	Stars, Galaxies and the Universe	3
PHYSICS 180	Concepts of Physics	3
PHYSICS 201	Principles of Physics I	5

## Quantitative Literacy

### Quantitative Literacy - complete three credits

#### Learning Outcomes

- Demonstrate competence in performing quantitative operations.
- Apply analytical concepts and operations to interpret models and aid in problem-solving, decision-making, and other real-world problems.

Code	Title	Credits
<b>Quantitative Literacy</b>		
ACCTG 201	Principles of Financial Accounting	4
BUS ADM 216	Business Statistics	4
CHEM 201	Math for Chemistry Discussion: Principles of Chemistry I	1
CHEM 202	Math for Chemistry Discussion: Principles of Chemistry II	1
CHEM 211	Principles of Chemistry I	4
COMM SCI 205	Social Science Statistics	4
ECON 203	Micro Economic Analysis	3
ECON 210	Quantitative Methods for Economists	3
GEOG 210	Human Geography and Concepts	3
HIMT 350	Statistics for Healthcare	3
MATH 100	Math Appreciation	3
MATH 102	Quantitative Reasoning	3
MATH 202	Calculus and Analytic Geometry I	4
MATH 203	Calculus and Analytic Geometry II	4
MATH 260	Introductory Statistics	4
PHILOS 103	Logic and Reasoning	3
PHYSICS 103	Fundamentals of Physics I	5
PHYSICS 201	Principles of Physics I	5
POL SCI 318	Political Behavior	3
THEATRE 221	Stagecraft	4
THEATRE 223	Computer Applications for Theatre	3
THEATRE 323	Stage Lighting	3
MUSIC 116 & MUSIC 253 & MUSIC 254	Ear Training and Sight Singing II and Music Theory III and Music Theory IV	7

## 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 two different social sciences.

Code	Title	Credits
<b>Social Sciences <sup>1</sup></b>		
ANTHRO 100	Varieties of World Culture	3
ANTHRO 150	Food Culture & Identity	3
ANTHRO 304	Family, Kin, and Community	3
ANTHRO 306	Environmental Anthropology	3

ANTHRO 314	Cultures of the World	3
ANTHRO 320	Myth, Ritual, Symbol and Religion	3
ANTHRO 348	Economic Anthropology	3
BUS ADM 202	Business and Its Environment	3
BUS ADM 206	Law and the Individual	3
COMM SCI 145	21st Century Citizen	2
COMM SCI 146	GPS Spring Seminar	1
COMM SCI 301	Foundations for Social Research	3
DJS 101	Introduction to Democracy and Justice Studies	3
DJS 204	Freedom and Social Control	3
DJS 221	American Law in Historical Perspective	3
DJS/WOST 241	Introduction to Women's & Gender Studies	3
ECON 102	Economics of the Modern World	3
ECON 202	Macro Economic Analysis	3
ECON 203	Micro Economic Analysis	3
ECON/DJS 307	History of Economic Thought	3
EDUC 206	Cultural Images in Materials for Children and Adolescents	3
GEOG 102/UR RE ST 102	World Regions and Concepts: A Geographic Analysis	3
GEOG 210	Human Geography and Concepts	3
GEOG 211	American Ethnic Minorities	3
GEOG 321/PU EN AF 321	Coastal Resources Policy and Management	3
GEOG 341/UR RE ST 341	Urban Geography	3
GEOG 370/UR RE ST 370	Geography of South America	3
ORG LEAD 497	Internship	1-6
POL SCI 100	Global Politics and Society	3
POL SCI 101	American Government and Politics	3
POL SCI 102	Introduction to Politics	3
POL SCI 120	Politics of Crime and Punishment	3
POL SCI 202/PU EN AF 202	Introduction to Public Policy	3
POL SCI 301/PU EN AF 301	Environmental Politics and Policy	3
POL SCI 353	Politics of Developing Areas	3
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy	3
POL SCI 480	Senior Seminar/Capstone in Political Science	3
PSYCH 102	Introduction to Psychology	3
PSYCH 203	Introduction to Lifespan Development	3
PU EN AF 102	Environment and Society	3
PU EN AF 215	Introduction to Public Administration	3
PU EN AF 225	Introduction to the Nonprofit Sector	3
PU EN AF 315	Public and Non-Profit Management	3
PU EN AF 323	Sustainable Land Use	3
PU EN AF 324	Transitioning to Sustainable Communities	3
PU EN AF 326	Philanthropy: Civic Engagement through Giving	3
PU EN AF 345	Human Resource and Risk Management	3
PU EN AF 360	Immigration and Immigration Policy	3
PU EN AF 425	Fundraising and Marketing for Nonprofits	3
PU EN AF 428	Public and Nonprofit Program Evaluation	3
SOC WORK 202	Introduction to Human Services	3
SOC WORK 250	You and Your Future: Living and Working in an Aging Society	3
SOC WORK 275	Foundations of Social Welfare Policy	3
SOC WORK 375	Family Principles and Patterns	3
SOCIOL 101	Introduction to Sociology	3
SOCIOL 130	Contemporary Social Problems	3



SOCIOL 160	Sociology of Human Sexuality	3
SOCIOL 203	Ethnic and Racial Identities	3
SOCIOL 220	Sociology of Marriage and the Family	3
SOCIOL 235	Introduction to Social Psychology	3
UR RE ST 100	Introduction to Urban Studies	3
UR RE ST 201	City Life and Globalization	3
UR RE ST 205	Urban Social Problems	3
UR RE ST 324	Latino Communities in the United States	3
WOST 201	Introduction to LGBTQ Studies	3
WOST 238	Sociological Perspectives on Gender	3

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

## Sustainability Perspective

### Sustainability Perspective - complete three credits

#### Learning Outcomes

- Think critically regarding the array and implications of alternative sustainability definitions and describe why actions to achieve sustainability are complex and controversial.
- Discuss sustainability within the context of ethical decision-making and engage in informed judgments about environmental problems as socially responsible citizens.

Code	Title	Credits
<b>Sustainability Perspective</b>		
ANTHRO 306	Environmental Anthropology	3
ECON 305/PU EN AF 305	Natural Resources Economic Policy	3
ENGLISH 333	Literary Themes	3
ENV SCI 260	Energy and Society	3
ENV SCI 301	Radioactivity: Past, Present, and Future	3
ENV SCI 303	Environmental Sustainability	3
ENV SCI/ET 334	Solid Waste Management	3
ENV SCI 460	Resource Management Strategy	3
ENV SCI 469	Conservation Biology	4
ET 420	Lean Processes	3
FNS 210	American Indians In Film	3
FNS 216/UR RE ST 216	Native American Landscapes:Imagined and Lived Spaces	3
FNS 224	First Nations and The Sacred	3
FNS 225	Introduction to First Nations Studies: The Tribal World	3
FNS 226	Introduction to First Nations Studies: Social Justice	3
FNS 301	Oneida Language I	3
FNS 302	Oneida Language II	3
FNS 303	Oneida Language III	3
FNS 304	Oneida Language IV	3
FNS 305	Oneida Language V	3
FNS 306	Oneida Language VI	3
FNS 372	Indigenous Nations Oral and Storytelling Traditions	3
FNS 374	Wisconsin First Nations Ethnohistory	3
FNS/HUM STUD 385	First Nations Intellectual Traditions	3
FNS 391	First Nations Studies Capstone Seminar	3
FNS 392	First Nations Justice and Tribal Governments	3
FNS 393	First Nations and Education Policy	3
HISTORY 220	American Environmental History	3
GEOG 321/PU EN AF 321	Coastal Resources Policy and Management	3

HUM BIOL 205	Biotechnology and Human Values	3
HUM BIOL/WOST 206	Fertility, Reproduction, and Family Planning	3
HUM BIOL 215	Personal Health Issues	3
HUM BIOL 217	Human Disease and Society	3
HUM BIOL 250	Fitness for Life	3
HUM BIOL 322	Epidemiology	3
HUM BIOL 405	Biotechnology and Ethics	3
HUM STUD 370	Sustainability through the Humanities	3
NUT SCI 250	World Food and Population Issues	3
PHILOS 220	Environmental Ethics	3
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy	3
PSYCH 380	Conservation Psychology	3
PU EN AF 102	Environment and Society	3
PU EN AF 323	Sustainable Land Use	3
PU EN AF 324	Transitioning to Sustainable Communities	3
WATER 201	Introduction to Water Science	3

## Graduation Requirements

- AAS Degree (p. 66)
- Bachelor Degree (p. 67)

## Associate of Arts & Sciences Degree

### Minimum Requirements

#### Degree Credits

60 degree credits

#### Grade Point Average

Students must have a cumulative 2.0 grade point average on UW-Green Bay courses

#### General Education

36 credits of breadth (see General Education Program) (p. 45)

#### Writing Competency

0-6 credits (see Writing Competency) (p. 68)

#### Math Competency

0-3 credits (see Math Competency) (p. 68)

#### Writing Emphasis Requirement: 2 courses

All students must complete two Writing Emphasis courses. Courses taken to fulfill the Writing Emphasis may also be used, simultaneously, to fulfill any other requirements. (see Writing Emphasis) (p. 69)

#### Area of Study

12 credits defined by an academic adviser (see Area of Study) (p. 67)

#### Lab Science

At least one science course must be completed with a laboratory (see Laboratory Science) (p. 67)

#### Residency

15 credits minimum must be earned at UW-Green Bay

AAS candidates are not eligible for graduation honors

Students should contact the Academic Advising Office (<http://www.uwgb.edu/advising>) as early as possible for assistance in planning their programs to assure that all degree requirements are fulfilled.

## Area of Study

### Students earning the AAS degree must complete one 12 credit Area of Study:

- Business:** Any 12 credits of ACCTG, BUS ADM, and/or ECON.
- Music and Performing Arts:** Any 12 credits of MUSIC, MUS APP, MUS ENS, or THEATRE
- Fine Arts:** Any 12 credits of ART, ARTS MGT, or DESIGN
- Natural Sciences:** Any 12 credits of BIOLOGY, CHEM, GEOSCI, ENV SCI, or PHYSICS
- Human Biology:** Any 12 credits of BIOLOGY, CHEM, HUM BIOL, or ENV SCI
- Social Sciences** (Individual focus within social sciences): Any 12 credits of ANTHRO, COMM SCI, EDUC 206, PSYCH, SOC WORK 250, SOCIOL, or WOST (Note: Only these specific Education and Social Work courses have been approved)
- Community Sciences** (community focus within social sciences): Any 12 credits of ANTHRO, COMM SCI, ECON, GEOG, HISTORY, POL SCI, PU EN AF, DJS, SOCIOL or UR RE ST
- Humanities:** Any 12 credits of ENGLISH, FNS, HISTORY, HUM STUD, PHILOS, or foreign language (The foreign language credits should not include credits given retroactively)
- Computing and Information Sciences:** Any 12 credits of COMP SCI or INFO SCI
- Communication:** Any 12 credits of COMM
- Individualized Area of Emphasis:** Any 12 credits of coursework reflecting a specific area of interest or study, chosen by the student, and approved by an advisor.

## Laboratory Science Requirement

Students seeking an Associates of Arts & Sciences degree (AAS) must complete at least one science laboratory course.

Code	Title	Credits
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
BIOLOGY 204	Principles of Biology Lab: Organisms, Ecology, and Evolution	1
CHEM 106	Survey of General Chemistry Lab	1
CHEM 107	Survey of Organic and Biochemistry Lab	1
CHEM 109	Survey of General, Organic, and Biochemistry Laboratory	1
CHEM 213	Principles of Chemistry I Laboratory	1
ENV SCI 103	Introduction to Environmental Sciences Lab	1
ENV SCI 469	Conservation Biology	4
ET 206	Chemistry for Engineers	5
GEOSCI 202	Physical Geology	4
GEOSCI 223	Ocean of Air: Weather and Climate Laboratory	1
PHYSICS 103	Fundamentals of Physics I	5
PHYSICS 142	Observational Astronomy	1
PHYSICS 201	Principles of Physics I	5

## Bachelor Degree

### Minimum Requirements

#### Degree Credits

120 degree credits

## **Grade Point Average**

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.

## **General Education**

36 credits of breadth (see General Education Program) (p. 45)

## **Writing Competency**

0-6 credits (see Writing Competency) (p. 68)

## **Math Competency**

0-3 credits (see Math Competency) (p. 68)

## **Capstone**

1 course (see Capstone Requirement) (p. 43)

## **Ethnic Studies**

3 credits (UW System requirement satisfied by General Education, Ethnic Studies Perspective (p. 56) course)

## **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. (see Writing Emphasis) (p. 69)

## **Major**

30 credits minimum

## **Residency**

30 credits minimum must be earned at UW-Green Bay (see Degree Residency Requirement) (p. 28)

## **Additional Options**

### **Minor**

18 credits minimum

### **Certificate**

12 credits minimum

### **Graduation Honors**

(see All-University Academic Honors) (p. 24)

If there are any questions regarding multiple majors or earning a subsequent degree please contact the Registrar's office ([registrar@uwgb.edu](mailto:registrar@uwgb.edu)) for further information.

## **Math Competency**

Students must complete the UW-Green Bay Mathematics Competency before the completion of 60 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. Students who have not taken the WMPT and have not satisfactorily completed or transferred in a college-level mathematics course must enroll in MATH 94, MATH 99, COMM SCI 205, or MATH 100 depending on academic program. Students should consult with their advisor to determine the appropriate course.

see also University Testing Requirements (p. 39)

## **Writing Competency**

Students must demonstrate English writing competency by test placement or completion of ENG COMP 100 by the end of their second semester.

see also University Testing Requirements (p. 39)

## Writing Emphasis

Writing Emphasis courses provide students with the opportunity to practice and improve their writing skills across the curriculum. Associate degree students must complete two writing emphasis courses. Bachelor degree 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, including general education breadth requirements and requirements in the major, minor, or certificate programs.

Code	Title	Credits
<b>Writing Emphasis</b>		
ACCTG 412	Auditing Standards and Procedures	4
ANTHRO 304	Family, Kin, and Community	3
ANTHRO 306	Environmental Anthropology	3
ANTHRO 320	Myth, Ritual, Symbol and Religion	3
ART 198	First Year Seminar	3
ART 344	Photography III	3
ART 355	Intermediate Fibers/Textiles	3
ART 379	Women, Art and Image	3
BIOLOGY 198	First Year Seminar	3
BIOLOGY 204	Principles of Biology Lab: Organisms, Ecology, and Evolution	1
BIOLOGY 304	Genetics Laboratory	1
BIOLOGY 308	Cell Biology Laboratory	1
BIOLOGY 311	Plant Physiology	4
BIOLOGY 340	Comparative Anatomy of Vertebrates	4
BIOLOGY 402	Advanced Microbiology	4
BIOLOGY 410	Developmental Biology	3
BIOLOGY 411	Developmental Biology Laboratory	1
BUS ADM 384	Supply Chain Management	3
BUS ADM 481	Small Business Management & Family Entrepreneurship	3
CHEM 198	First Year Seminar	3
CHEM 322	Thermodynamics and Kinetics Laboratory	1
CHEM 323	Structure of Matter Laboratory	1
COMM 185	Business and Media Writing	3
COMM 198	First Year Seminar	3
COMM 290	Communication Problems and Research Methods	3
COMM 302	News Reporting and Writing	3
COMM 308	Information Technologies	3
COMM 309	Mass Media Advertising	3
COMM 333	Persuasion and Argumentation	3
COMM 336	Theories of the Interview	3
COMM 375	Communication Skills: Language of Metaphor	3
COMM 390	Sports Writing, Promotion, and Public Relations	3
COMM 440	Service Learning in Conflict Resolution	3
COMM 445	Human Communication Theory	3
COMM SCI 198	First Year Seminar	3
COMP SCI 353	Computer Architecture and Organization	3
COMP SCI 358	Data Communication and Computer Networks	3
COMP SCI 490	Capstone Essay in Computer Science	3
COMP SCI 497	Internship	1-12
DJS 198	First Year Seminar	3
DJS 241	Introduction to Women's & Gender Studies	3
DJS 348	Gender and the Law	3
DJS 353	The U.S. and the World	3

DJS 361	Historical Perspectives on American Democracy	3
DJS 362	Power and Change in America	3
DJS 461	Social and Political Criticism	3
DJS 470	Senior Seminar in Democracy and Justice Studies	3
ECON 305/PU EN AF 305	Natural Resources Economic Policy	3
ECON 310	Introduction to Econometrics	3
ECON 340	Economics of Land Use	3
ECON 342	Community Economic Development	3
ECON 342	Community Economic Development	3
ECON 402	Environmental and Resource Economics	3
ECON 403	International Economics	3
EDUC 198	First Year Seminar	3
EDUC 206	Cultural Images in Materials for Children and Adolescents	3
EDUC 307	Teaching Reading in the Elementary and Middle Schools	3
EDUC 309	Teaching Language Arts in the Elementary and Middle Schools	3
EDUC 319	Adolescent Literature in Middle and Secondary School Reading	3
EDUC 352	Social and Family Influences on Development and Learning	3
EDUC 361	Introduction to the Art and Science of Teaching	3
EDUC 422	Reading in the Content Areas	3
EDUC 441	Infants & Toddlers: History, Philosophy & Current Programs	3
EDUC 452	Principles of Middle Level Education	3
ENG COMP 105	English Composition II: Composition and Rhetoric	3
ENG COMP 198	First Year Seminar	3
ENG COMP 200	Professional Writing for Business Majors	3
ENGLISH 104	Introduction to Literature	3
ENGLISH 206	Women in Literature	3
ENGLISH 212	Introduction to Creative Writing	3
ENGLISH 214	Introduction to English Literature I	3
ENGLISH 216	Introduction to American Literature I	3
ENGLISH 217	Introduction to American Literature II	3
ENGLISH 218	World Literatures	3
ENGLISH 219	World Literatures II	3
ENGLISH 264	Topics in Literature	3
ENGLISH 290	Literary Studies	3
ENGLISH 301	Intermediate Creative Writing	3
ENGLISH 302	Short Fiction Writing Workshop	3
ENGLISH 304	Creative Nonfiction Writing	3
ENGLISH 312	Topics in Creative Writing	3
ENGLISH 315	The British Novel	3
ENGLISH 316	The English Novel: 1850's to the Present	3
ENGLISH 320	Major Drama	3
ENGLISH 322	Major Poetry	3
ENGLISH 323	Topics in Literary Criticism	3
ENGLISH 331	Major American Prose Fiction	3
ENGLISH 333	Literary Themes	3
ENGLISH 335	Literary Eras	3
ENGLISH 336	American Ethnic Literature	3
ENGLISH 338	World Literatures	3
ENGLISH 340	History of the English Language	3
ENGLISH 364	Literary Topics	3
ENGLISH 400	English Capstone	3
ENGLISH 431	Shakespeare	3

ENGLISH 436	Major Author(s)	3
ENGR 198	First Year Seminar	3
ENGR 213	Mechanics I	3
ENV SCI 198	First Year Seminar	3
ENV SCI 302	Principles of Ecology	4
ENV SCI 330	Hydrology	3
ENV SCI 339	Scientific Writing	2
ENV SCI 460	Resource Management Strategy	3
ENV SCI 467	Capstone in Environmental Science	4
ENV SCI 469	Conservation Biology	4
ET 330	Hydrology	3
ET 360	Project Management	3
ET 400	Co-op/Internship in Engineering Technology	3
ET 410	Capstone Project	3
FIN 442	Principles of Investment	3
FNS 198	First Year Seminar	3
FNS 226	Introduction to First Nations Studies: Social Justice	3
FNS 336	American Ethnic Literature	3
FRENCH 325	Advanced French Conversation and Composition	3
GEOG 370	Geography of South America	3
GEOG 470	Glacial Geology & Landscapes	3
GEOSCI 198	First Year Seminar	3
GEOSCI 203	Earth System History	3
GEOSCI 470	Glacial Geology & Landscapes	3
GEOSCI 492	Special Topics in Geoscience	1-4
GERMAN 325	Advanced German Conversation and Composition	3
GERMAN 357	German Cinema	3
HIMT 420	Healthcare Systems: Project Management	3
HISTORY 220	American Environmental History	3
HISTORY 301	The Middle Ages	3
HISTORY 302	Problems in American Thought	3
HISTORY 309	United States Immigration History	3
HISTORY 310	American Colonial History	3
HISTORY 312	The Early American Republic	3
HISTORY 332	Europe in the 19th Century	3
HISTORY 333	Europe in the 20th Century	3
HISTORY 353	The U.S. and the World	3
HISTORY 370	History of Sexuality in the U.S.	3
HISTORY 402	America in the Twentieth Century	3
HISTORY 421	Topics in Medieval History	3
HISTORY 422	Topics in Early Modern European History	3
HISTORY 423	Topics in Modern European History	3
HISTORY 480	Seminar in History	3
HRM 460	Employee Development	3
HUM BIOL 198	First Year Seminar	3
HUM BIOL 202	Ethnic Minorities in Science	3
HUM BIOL 205	Biotechnology and Human Values	3
HUM BIOL 310	Human Genetics	3
HUM BIOL 331	Science and Religion: Spirit of Inquiry	3
HUM BIOL 360	Exercise Physiology	3
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism	1
HUM BIOL 403	Human Physiology Laboratory	1

HUM BIOL 405	Biotechnology and Ethics	3
HUM BIOL 422	Immunology	3
HUM BIOL 444	Endocrinology	3
HUM DEV 336	Gender Development Across the Lifespan	3
HUM DEV 424	The Development of Creative and Critical Thinking	3
HUM DEV 494	Capstone	3
HUM STUD 160	Introduction to Language	3
HUM STUD 198	First Year Seminar	3
HUM STUD 210	Film and Society	3
HUM STUD 213	Ethnic Diversity and Human Values	3
HUM STUD 319	Second Language Acquisition & Assessment	3
HUM STUD 321	Sociolinguistics	3
HUM STUD 327	Religion and the Social Order	3
HUM STUD 333	Utopia and Dystopia	3
HUM STUD 334	The Ancient World	3
HUM STUD 335	The Medieval World	3
HUM STUD 336	The Renaissance	3
HUM STUD 337	The Age of Reason	3
HUM STUD 351	Interdisciplinary Themes in Humanities	3
HUM STUD 352	Literatures in Translation	3
HUM STUD 357	German Cinema	3
HUM STUD 360	Globalization and Cultural Conflict	3
HUM STUD 375	Humanities, Business and Critical Thinking	3
HUM STUD 382	Romanticism to Modernism	3
HUM STUD 383	Contemporary Cultural Issues	3
HUM STUD 384	Topics in World Cultures	3
INFO SCI 198	First Year Seminar	3
INFO SCI 201	Information, Computers and Society	3
INFO SCI 308	Information Technologies	3
INFO SCI 341	Survey of Gaming and Interactive Media	3
MATH 314	Proofs in Number Theory and Topology	3
MATH 329	Applied Regression Analysis	4
MGMT 472	Leadership Development	3
MGMT 489	Organizational Culture & Change	3
MKTG 327	Selling and Sales Management	3
MKTG 421	International Marketing	3
MKTG 428	Consumer Behavior	3
MUSIC 198	First Year Seminar	3
MUSIC 353	Music History I	3
MUSIC 423	Seminar in Music Literature	3
NURSING 407	Foundations of Professional Nursing Practice	3
NURSING 490	Synthesis for Nursing Practice	3
NUT SCI 198	First Year Seminar	3
NUT SCI 421	Community Nutrition	4
ORG LEAD 198	Introduction to Leadership	3
ORG LEAD 300	Integrative Leadership Seminar II	3
ORG LEAD 348	Organizational Behavior Across Sectors	3
ORG LEAD 400	Organizational Leadership Capstone	3
PHILOS 308	Philosophy and the Sciences	3
PHILOS 324	Contemporary Philosophy	3
PHILOS 351	Happiness and the Good Life	3
PHILOS 420	Metaphysics	3



PHYSICS 198	First Year Seminar	3
POL SCI 198	First Year Seminar	3
POL SCI 301	Environmental Politics and Policy	3
POL SCI 306	Regulatory Policy and Administration	3
POL SCI 310	The American Presidency	3
POL SCI 316	Congress: Politics and Policy	3
POL SCI 318	Political Behavior	3
POL SCI 340	Political Theory	3
POL SCI 408	Public Policy Analysis	3
PSYCH 198	First Year Seminar	3
PSYCH 300	Research Methods in Psychology	4
PSYCH 344	Dying, Death, and Loss	3
PSYCH 401	Psychology of Women and Gender	3
PSYCH 443	Spirituality and Development	3
PSYCH 494	Capstone in Psychology	3
PU EN AF 198	First Year Seminar	3
PU EN AF 301	Environmental Politics and Policy	3
PU EN AF 306	Regulatory Policy and Administration	3
PU EN AF 315	Public and Non-Profit Management	3
PU EN AF 322	Environmental Planning	3
PU EN AF 323	Sustainable Land Use	3
PU EN AF 344	Leadership in Organizations	3
PU EN AF 351	Water Resources Policy and Management	3
PU EN AF 378	Environmental Law	3
PU EN AF 402	Environmental and Resource Economics	3
PU EN AF 408	Public Policy Analysis	3
SOC WORK 198	First Year Seminar	3
SOC WORK 305	The Social Work Profession	3
SOC WORK 411	Social Work Methods II	3
SOCIOL 310	Urban Sociology	3
SPANISH 198	First Year Seminar	3
SPANISH 225	Composition and Conversation I	3
SPANISH 226	Composition and Conversation II	3
SPANISH 329	Representative Spanish and Latin American Authors	3
SPANISH 355	Spanish and Latin American Cinema	3
SPANISH 465	Special Topics	3
THEATRE 198	First Year Seminar	3
THEATRE 211	World Theatre and Performance	3
THEATRE 309	Theatre History I: Greek to Elizabethan	3
THEATRE 310	Theatre History II: 17th Century to Realism	3
THEATRE 311	Theatre History III: 20th Century and Contemporary	3
UR RE ST 198	First Year Seminar	3
UR RE ST 310	Urban Sociology	3
UR RE ST 313	The City Through Time and Space	3
UR RE ST 324	Latino Communities in the United States	3
UR RE ST 342	Community Economic Development	3
UR RE ST 370	Geography of South America	
UR RE ST 412	Urban Planning	3
WOST 198	First Year Seminar	3
WOST 205	Women in Literature	3
WOST 241	Introduction to Women's & Gender Studies	3
WOST 336	Gender Development Across the Lifespan	3

WOST 338	World Literatures	3
WOST 348	Gender and the Law	3
WOST 370	History of Sexuality in the U.S.	3
WOST 379	Women, Art and Image	3
WOST 401	Psychology of Women and Gender	3

## Majors and Minors

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.

### A

- Accounting (p. 75)
- Art (p. 80)
- Arts Management (p. 88)

### B

- Biology (p. 92)
- Business Administration (p. 110)

### C

- Chemistry (p. 122)
- Communication (p. 130)
- Computer Science (p. 137)

### D

- Democracy and Justice Studies (p. 141)
- Design Arts (p. 151)

### E

- Economics (p. 154)
- Education (p. 157)
- Engineering (p. 162)
- Engineering Technology (p. 163)
- English (p. 171)
- Environmental Policy and Planning (p. 177)
- Environmental Science (p. 185)

### F

- First Nations Studies (p. 191)
- French and Francophone Studies (p. 195)

### G

- Geography (p. 197)
- Geoscience (p. 198)
- German (p. 203)
- Global Studies (p. 209)

### H

- Health Information Management and Technology (p. 210)
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## I

- Individual Major (p. 252)
- Information Sciences (p. 252)

## M

- Mathematics & Statistics (p. 256)
- Music (p. 262)

## N

- Nursing (p. 278)

## O

- Organizational Leadership (p. 281)

## P

- Philosophy (p. 288)
- Physics (p. 291)
- Political Science (p. 292)
- Psychology (p. 296)
- Public Administration (p. 303)

## S

- Social Work (p. 308)
- Sociology (p. 315)
- Spanish and Latin American Studies (p. 316)

## T

- Theatre and Dance (p. 321)

## U

- Urban Studies (p. 334)

## W

- Water Science (p. 337)
- Women's and Gender Studies (p. 339)
- Writing and Applied Arts (p. 341)

# Accounting

(Bachelor of Business Administration)

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 taxpayers from the community.

### Entrance and Exit Requirements

Students can declare an Accounting major or minor at any time with any number of credits through a simple online process. To declare, students must complete an online Declaration of Major/Minor/Certificate e-form (<https://www.uwgb.edu/business-administration/student-resources/declaring-a-major-or-minor>), which includes reading and accepting an Honor Code (pre-declaration form). Your advisor will be assigned to you after the e-form is received.

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 Requirement for CPA License

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. 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.

- Accounting Major (p. 78)
- Accounting Minor (p. 79)

### Suggested Five-Year Plan

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
First Year Seminar Gen. Ed.		3
Math Competency Requirement		3
Social Sciences Gen. Ed. <small>Suggested Bus Adm 202 or 206</small>		3
Humanities Gen. Ed.		3
English Competency Requirement		3
	Credits	15
<b>Spring</b>		
Fine Arts Gen. Ed.		3
BUS ADM 216	Business Statistics	4
Biological Sciences Gen. Ed.		3
Sustainability Perspective Gen. Ed.		3
Humanities Gen. Ed.		3
	Credits	16
<b>Second Year</b>		
<b>Fall</b>		
ACCTG 201	Principles of Financial Accounting	4
BUS ADM 305	Legal Environment of Business	3
ENG COMP 105	English Composition II: Composition and Rhetoric	3

MGMT 389	Organizational Behavior	3
MKTG 322	Introductory Marketing	3
	Credits	16
<b>Spring</b>		
ACCTG 301	Intermediate Accounting I	4
BUS ADM 306	Business Law	3
ECON 202	Macro Economic Analysis	3
	Credits	10
<b>Third Year</b>		
<b>Fall</b>		
ACCTG 313	Intermediate Accounting II	3
ACCTG 410	Introduction to Income Tax Theory and Practice	3
ACCTG 303	Seminar in Accounting Professionalism	2
ECON 203	Micro Economic Analysis	3
Ethnic Studies Perspective Gen. Ed.		3
	Credits	14
<b>Spring</b>		
ACCTG 415	Advanced Income Tax Theory and Practice	3
ACCTG 314	Advanced Accounting	3
ACCTG 413	VITA or Part-Time Internship	3
FIN 343	Corporation Finance	3
Minor or Elective Credit		3
	Credits	15
<b>Fourth Year</b>		
<b>Fall</b>		
ACCTG 316	Governmental and Nonprofit Accounting	3
BUS ADM 452	Business Analytics	3
FIN 345	Risk Management and Insurance	3
or FIN 442	or Principles of Investment	
or FIN 446	or Advanced Corporation Finance	
or FIN 450	or Bank Administration	
Minor or Elective Credit		6
	Credits	15
<b>Spring</b>		
Full-Time or Part-Time Internship		3-9
ACCTG 413	VITA	3
ACCTG 414	Cost Accounting	4
Minor or Elective Credit		3
	Credits	13-19
<b>Fifth Year</b>		
<b>Fall</b>		
ACCTG 411	Accounting Information Systems	4
Natural Sciences Gen. Ed.		3
Global Culture Gen. Ed.		3

HRM 362 or BUS ADM 384 or MGMT 472 or BUS ADM 481 or MGMT 482 or MGMT 489	Introduction to Human Resource Management or Supply Chain Management or Leadership Development or Small Business Management & Family Entrepreneurship or Strategic Management or Organizational Culture & Change	3
Minor or Elective Credit		3
Credits		16
<b>Spring</b>		
BUS ADM 490		
ACCTG 412	Auditing Standards and Procedures	4
Minor or Elective Credit		3
Minor or Elective Credit		3
Credits		10
Total Credits		140-146

**James F Loebli**; Associate Professor; J.D., University of Wisconsin - Madison, chair

**Patricia A Albers**; Senior Lecturer; M.B.A., University of Wisconsin - Oshkosh

**Heather Kaminski**; Lecturer; M.B.A., Lakeland University

## Accounting Major

Code	Title	Credits
<b>Supporting Courses</b>		26-29
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ENG COMP 200	Professional Writing for Business Majors <sup>1</sup>	
BUS ADM 202	Business and Its Environment	
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics	
BUS ADM 230	Introduction to Management Information Systems	
PHILOS 227	Business Ethics	
<b>Upper-Level Courses</b>		61
<b>Core Courses</b>		
BUS ADM 305	Legal Environment of Business	
BUS ADM 306	Business Law	
BUS ADM 452	Business Analytics	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MGMT 482	Strategic Management	
MKTG 322	Introductory Marketing	
<b>Choose one of the following Marketing courses:</b>		
MKTG 327	Selling and Sales Management	
MKTG 421	International Marketing	
MKTG 423	Advertising	
MKTG 424	Marketing Research	
MKTG 426	Marketing Management	

MKTG 428	Consumer Behavior
<b>Choose one of the following Finance courses:</b>	
FIN 344	Real Estate Principles
FIN 345	Risk Management and Insurance
FIN 347	Financial Markets and Institutions
FIN 442	Principles of Investment
FIN 445	International Financial Management
FIN 446	Advanced Corporation Finance
FIN 447	Derivatives
FIN 450	Bank Administration
<b>Choose one of the following Management courses:</b>	
BUS ADM 380	Project Management
BUS ADM 384	Supply Chain Management
BUS ADM 481	Small Business Management & Family Entrepreneurship
HRM 362	Introduction to Human Resource Management
MGMT 472	Leadership Development
MGMT 489	Organizational Culture & Change
BUS ADM 499	Travel Course
<b>Accounting Courses</b>	
ACCTG 301	Intermediate Accounting I <sup>2</sup>
ACCTG 313	Intermediate Accounting II
ACCTG 314	Advanced Accounting
ACCTG 316	Governmental and Nonprofit Accounting
ACCTG 410	Introduction to Income Tax Theory and Practice
ACCTG 411	Accounting Information Systems
ACCTG 412	Auditing Standards and Procedures
ACCTG 414	Cost Accounting
ACCTG 415	Advanced Income Tax Theory and Practice
Total Credits	87-90

<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 201, 202, and 301 in order to take upper-level courses in Accounting.

## Accounting Minor

Code	Title	Credits
<b>Supporting Courses</b>		10-13
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
ECON 202	Macro Economic Analysis	
or ECON 203	Micro Economic Analysis	
ENG COMP 200	Professional Writing for Business Majors <sup>1</sup>	
<b>Upper-Level Courses <sup>2</sup></b>		16-18
ACCTG 301	Intermediate Accounting I <sup>2</sup>	
BUS ADM 305	Legal Environment of Business	
or MKTG 322	Introductory Marketing	
ACCTG 313	Intermediate Accounting II	
or ACCTG 414	Cost Accounting	
<b>Choose two of the following courses:</b>		
ACCTG 314	Advanced Accounting	
ACCTG 316	Governmental and Nonprofit Accounting	
ACCTG 410	Introduction to Income Tax Theory and Practice	
ACCTG 411	Accounting Information Systems	

<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 201, 202 and 301 in order to take upper-level courses in Accounting.

## Art

(Bachelor of Arts)

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 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.
- Pre-Art Therapy is designed to prepare students for entry into graduate programs in professional mental health counseling, with specialization in Art Therapy.
- Art Education leads to credentials for teaching licensure from the Wisconsin Department of Public Instruction.

Art majors often combine their studies with a 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 seeking information on teacher certification should contact the Education Office. Students selecting the Pre-Art Therapy emphasis must complete a significant number of credits of Psychology and a Statistics course; we strongly recommend that those interested in this emphasis seek advising very early in their academic career.

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).

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

## Area of Emphasis

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

- Art Education (p. 83)
- Pre-Art Therapy (p. 84)
- Studio Art (p. 86)

## Area of Emphasis

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

- Art History (p. 87)
- Studio Art (p. 87)

The following is an example of a four-year Art degree program and is subject to change without notice. Students should consult an art program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Art Major with Studio Art Emphasis; Minor in Design Arts (p. 81)

**Kristy J Deetz**; Professor; M.F.A., The Ohio State University

**Alison A Gates**; Professor; M.F.A., University of Washington, chair

**Berel Lutsky**; Professor; M.F.A., University of Wisconsin-Madison

**Christine L Style**; Professor; M.F.A., University of Wisconsin - Milwaukee

**Sarah A Detweiler**; Associate Professor; M.F.A., University of Florida

**Minkyu Lee**; Associate Professor; M.F.A., Rochester Institute of Technology

**Samuel E Watson**; Assistant Professor; Ph.D., University of Kansas

**Mark Sauter**; Lecturer; M.F.A., University of Wisconsin - Madison

## Art Curriculum Guide

The following is an example of a four-year Art degree program and is subject to change without notice. Students should consult an art program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Art Major with Studio Art Emphasis; Minor in Design Arts (p. 81)

## Curriculum Guide: Art Major with Studio Art Emphasis; Minor in Design Arts

An example: Four year plan for **Art Major with Studio Art Emphasis; Minor in Design Arts**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
Freshman		
Fall		
ART 102	History of the Visual Arts: Ancient to Medieval	3

ART 105 or ART 106 or ART 107	Introductory Drawing or Three Dimensional Design or Two-Dimensional Design	3
First Year Seminar		3
General Ed		3
General Ed or Elective		3
		Credits 15
<b>Spring</b>		
ART 103	History of the Visual Arts II: Renaissance to Modern	3
ART 105 or ART 106	Introductory Drawing or Three Dimensional Design	3
ART 106 or ART 107	Three Dimensional Design or Two-Dimensional Design	3
General Ed		3
General Ed or Elective		3
		Credits 15
<b>Sophomore</b>		
<b>Fall</b>		
ART 101	Tools, Safety, and Materials	1
ART 2XX Intro Two-Dimensional Course		3
ART 2XX Intro Three-Dimensional Course		3
General Ed		3
General Ed		3
General Ed		3
		Credits 16
<b>Spring</b>		
ART 2XX Intro Two-Dimensional Course		3
ART 302	Intermediate Drawing	3
ART 202	Modern Art	3
DESIGN 131	Introduction to Design and Culture	3
General Ed		3
		Credits 15
<b>Junior</b>		
<b>Fall</b>		
ART 376	Modern American Culture	3
DESIGN 231	Graphic Design Studio I	3
General Ed or Elective		3
General Ed or Elective		3
General Ed or Elective		3
		Credits 15
<b>Spring</b>		
ART 3XX/4XX Intermediate/Advanced Course		3
ART 3XX/4XX Intermediate/Advanced Course		3
DESIGN 231 or DESIGN 332	Graphic Design Studio I or Graphic Design Studio II	3
General Ed		3
General Ed		3
		Credits 15
<b>Senior</b>		
<b>Fall</b>		
ART 3XX/4XX Intermediate/Advanced Course		3

DESIGN 332 or DESIGN 431	Graphic Design Studio II (or DESIGN 3XX/4XX Minor Elective) or Graphic Design Studio III	3
General Ed		3
General Ed or Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
ART 3XX/4XX Intermediate/Advanced Course		3
ART 3XX/4XX Intermediate/Advanced Course		3
DESIGN 433	Advanced Studio (or DESIGN 3XX/4XX Minor Elective)	3
Elective		3
General Ed		3
	Credits	15
	Total Credits	121

## Art Major

### Area of Emphasis

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

- Art Education (p. 83)
- Pre-Art Therapy (p. 84)
- Studio Art (p. 86)

## Art Education Emphasis

### ART Major

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.

Code	Title	Credits
<b>Supporting Core Courses</b>		43
<b>Art History</b>		
ART 102 or ART 103	History of the Visual Arts: Ancient to Medieval History of the Visual Arts II: Renaissance to Modern	
ART 202	Modern Art	
ART 203	Contemporary Art	
<b>Design Core</b>		
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
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 235	Introduction to Woodworking and Furniture Design	

ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
<b>Upper-Level Core Courses</b>		<b>24</b>
<b>Required Core Courses</b>		
EDUC 316	Teaching Art in the Middle and Secondary Schools	
<b>Drawing (choose one of the following courses):</b>		
ART 302	Intermediate Drawing	
or ART 304	Figure Drawing	
<b>Art History (choose two of the following courses):</b>		
ART 376	Modern American Culture	
ART 379	Women, Art and Image	
ART 380	History of Photography	
ART 381	Art of the First Nations	
ART 382	Precolumbian Art of Mesoamerica	
ART 383	African Art	
ART 384	Asian Art	
<b>Choose 12 credits of Studio Art courses <sup>1</sup></b>		
Total Credits		<b>67</b>

<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, ceramics, or woodworking & furniture design for which appropriate prerequisites have been completed.

## Pre-Art Therapy Emphasis

### ART Major

Code	Title	Credits
<b>Supporting Art Courses</b>		<b>31</b>
<b>Art History:</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	
or ART 103	History of the Visual Arts II: Renaissance to Modern	
ART 202	Modern Art	
ART 203	Contemporary Art	
<b>Design Core:</b>		
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
<b>Two-dimensional studios (choose 2 for total 6 credits):</b>		
ART 210	Introduction to Painting	
ART 243	Introduction to Photography	
ART 270	Introduction to Printmaking	
<b>Three-dimensional studios (choose 2 for total 6 credits):</b>		
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 235	Introduction to Woodworking and Furniture Design	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
<b>Supporting Psychology Courses:</b>		<b>7</b>
PSYCH 102	Introduction to Psychology	
or HUM DEV 102	Introduction to Human Development	
<b>Choose one Statistics course:</b>		
BUS ADM 216	Business Statistics	

COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
<b>Upper Level Art Courses:</b>		9
ART 302 or ART 304	Intermediate Drawing Figure Drawing	
<b>Choose two courses:</b>		
ART 376	Modern American Culture	
ART 379	Women, Art and Image	
ART 380	History of Photography	
ART 381	Art of the First Nations	
ART 382	Precolonian Art of Mesoamerica	
ART 383	African Art	
ART 384	Asian Art	
<b>Upper Level Art Studio Courses:</b>		9
<b>Complete any 9 credits from Upper-Level Studio list including one 400-level course.</b>		
ART 304	Figure Drawing	
ART 402	Advanced Drawing	
<b>Painting:</b>		
ART 309	Intermediate Painting: Oil Painting	
ART 310	Intermediate Painting: Media Exploration	
ART 311	Intermediate Painting: Contemporary Approaches	
ART 410	Advanced Painting	
<b>Photography:</b>		
ART 343	Photography II	
ART 344	Photography III	
ART 443	Advanced Problems in Photography	
<b>Printmaking:</b>		
ART 373	Intermediate Printmaking	
ART 375	Screen Printing	
ART 470	Advanced Printmaking	
<b>Sculpture:</b>		
ART 321	Intermediate Sculpture	
ART 421	Advanced Sculpture	
<b>Ceramics:</b>		
ART 331	Intermediate Ceramics	
ART 431	Advanced Ceramics	
<b>Textiles:</b>		
ART 355	Intermediate Fibers/Textiles	
ART 453	Advanced Fibers/Textiles	
<b>Jewelry/Metals:</b>		
ART 364	Intermediate Jewelry/Metals	
ART 463	Advanced Jewelry/Metals	
ART 497	Internship (up to 3 credits)	
ART 498	Independent Study (up to 3 credits)	
ART 499	Travel Course (up to 3 credits)	
<b>Woodworking &amp; Furniture Design:</b>		
ART 335	Intermediate Woodworking & Furniture Design	
ART 435	Advanced Woodworking & Furniture Design	
<b>Upper Level Psychology Courses:</b>		13
PSYCH 300	Research Methods in Psychology	
PSYCH 438	Counseling and Psychotherapy	
<b>choose 6 credits of PSYCH electives</b>		

PSYCH 305	Psychology of Stereotyping and Prejudice
PSYCH 350	Cultural Psychology
PSYCH 401	Psychology of Women and Gender
PSYCH 417	Psychology of Cognitive Processes
PSYCH 429	Theories of Personality
PSYCH 435	Abnormal Psychology
PSYCH 440	Multicultural Counseling and Mental Health
PSYCH 460	Clinical Child Psychology
PSYCH 497	Internship

Total Credits

69

## Studio Art Emphasis

### ART Major

Code	Title	Credits
<b>Supporting Core Courses</b>		31
<b>Art History</b>		
ART 102 or ART 103	History of the Visual Arts: Ancient to Medieval History of the Visual Arts II: Renaissance to Modern	
ART 202	Modern Art	
ART 203	Contemporary Art	
<b>Design Core</b>		
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
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 235	Introduction to Woodworking and Furniture Design	
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 or ART 304	Intermediate Drawing Figure Drawing	
<b>Art History (choose two of the following courses):</b>		
ART 376	Modern American Culture	
ART 379	Women, Art and Image	
ART 380	History of Photography	
ART 381	Art of the First Nations	
ART 382	Precolumbian Art of Mesoamerica	
ART 383	African Art	
ART 384	Asian Art	
<b>Upper-Level Studio Art Emphasis Courses (15 credits) <sup>1</sup></b>		

Total Credits

55

<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.

## Art Minor

### Area of Emphasis

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

- Art History (p. 87)
- Studio Art (p. 87)

## Art History Emphasis

### ART Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>15</b>
ART 102 or ART 103	History of the Visual Arts: Ancient to Medieval History of the Visual Arts II: Renaissance to Modern	
ART 105	Introductory Drawing	
ART 107	Two-Dimensional Design	
ART 202	Modern Art	
ART 203	Contemporary Art	
<b>Upper-Level Courses</b>		<b>9</b>
<b>Choose three of the following courses:</b>		
ART 376	Modern American Culture	
ART 379	Women, Art and Image	
ART 380	History of Photography	
ART 381	Art of the First Nations	
ART 382	Precolonian Art of Mesoamerica	
ART 383	African Art	
ART 384	Asian Art	
Total Credits		24

## Studio Art Emphasis

### ART Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>19</b>
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
ART 202	Modern Art	
<b>Introductory Studios (choose 6 credits):</b>		
ART 210	Introduction to Painting	
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 235	Introduction to Woodworking and Furniture Design	

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		25

<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

(Bachelor of Arts)

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. 90)

The Arts Management minor requires completion of one of the following areas of emphases:

- Arts Management Minor - General (p. 91)
- Arts Management Minor - Gallery and Museum Practices (p. 91)

The following is only an example of a four-year Arts Management degree program and is subject to change without notice. Students should consult an Arts Management program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

Arts Management Curriculum Guide (p. 88)

## Arts Management Curriculum Guide

An example: Four year plan for **Arts Management Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
COMM 133	Fundamentals of Public Address	3
First Year Seminar		3
Arts Elective		3
General Ed		3
General Ed		3
		Credits
		15
<b>Spring</b>		
ARTS MGT 256	Understanding the Arts	3



POL SCI 101	American Government and Politics	3
Arts Elective		3
General Ed		3
General Ed		3
Credits		15
<b>Sophomore</b>		
<b>Fall</b>		
ARTS MGT 257	Arts in the Community	3
Choose one from Supporting Courses in Communication and Business		3
Upper-Level Arts		3
General Ed		3
General Ed		3
Credits		15
<b>Spring</b>		
ARTS MGT 354	Managing Arts and Cultural Organizations	3
Arts Elective		3
General Ed		3
General Ed		3
General Ed		3
Credits		15
<b>Junior</b>		
<b>Fall</b>		
ARTS MGT 355	Funding and Financial Issues in the Arts	3
ARTS MGT 480	Arts Management Seminar	1
General Ed		3
General Ed		3
Elective		3
Elective		3
Credits		16
<b>Spring</b>		
ARTS MGT 356	Promoting the Arts	3
ARTS MGT 480	Arts Management Seminar	1
COMM 380	Communication Law	3
PU EN AF 415	Public and Nonprofit Budgeting	3
General Ed		3
Elective		3
Credits		16
<b>Senior</b>		
<b>Fall</b>		
ARTS MGT 480	Arts Management Seminar	1
Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
Credits		16
<b>Spring</b>		
ARTS MGT 455 or ARTS MGT 497	Practicum in Arts Management or Internship	1-12
Elective		3
Elective		3
Elective		3
Credits		10-21
Total Credits		118-129

# Arts Management Major

Code	Title	Credits
<b>Supporting Courses</b>		21
<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	Three Dimensional Design	
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	Modern Art	
MUSIC 121	Survey of Western Music	
MUSIC 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>		24
<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 379	Women, Art and Image
ART 380	History of Photography
ARTS MGT 357	Gallery & Museum Studies
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 364	Musical Theatre History
<b>Management and Business (choose 6 credits):</b>	
PU EN AF 326	Philanthropy: Civic Engagement through Giving
PU EN AF 344	Leadership in Organizations
PU EN AF 415	Public and Nonprofit Budgeting
PU EN AF 428	Public and Nonprofit Program Evaluation
UR RE ST 312	Community Politics

Total Credits

45

## Arts Management Minor

- Gallery and Museum Practices (p. 91)
- General Emphasis (p. 91)

## Gallery and Museum Practices Emphasis

### ARTS MANAGEMENT Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ARTS MGT 256	Understanding the Arts	
ARTS MGT 257	Arts in the Community	
Choose 3 credits:		
ART 103	History of the Visual Arts II: Renaissance to Modern	
ART 106	Three Dimensional Design	
ART 202	Modern Art	
COMM 133	Fundamentals of Public Address	
DESIGN 131	Introduction to Design and Culture	
<b>Upper-Level Courses</b>		<b>15</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 357	Gallery & Museum Studies	
Choose 3 credits:		
ARTS MGT 455	Practicum in Arts Management	
ARTS MGT 497	Internship	

Total Credits

24

## General Emphasis

### ARTS MANAGEMENT Minor

Code	Title	Credits
<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	Modern Art	
MUSIC 121	Survey of Western Music	
MUSIC 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	Sheepshead Review Practicum	
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

(Bachelor of Science)

Biology is one of UW-Green Bay's most popular 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 often combine their studies with a 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 subjects for Biology majors include Business Administration and Environmental Policy and Planning.

Students who prefer a Biology minor (rather than a major) often 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.

### **Biology Program Mission Statement**

*The Biology Program at the University of Wisconsin-Green Bay provides a quality educational curriculum in the study of life and living systems, from the molecular level to the ecosystem level. The disciplinary major and minor complement UW-Green Bay's interdisciplinary programs, especially those in Human Biology, Environmental Science, and the professional program in Education. The biology major prepares students for careers in ecology, organismal biology, physiology, genetics, cell and molecular biology, medicine and human health, veterinary science, wildlife management, education, agriculture, and science communication. Faculty and staff teach students to think critically and to solve complex problems scientifically by providing hands-on laboratory and field experiences as well as meaningful scientific research opportunities. The Biology Program contributes intellectual, cultural, and economic outreach activities and scientific research that enriches the quality of life for people in northeastern Wisconsin and elsewhere.*

### **Biology Student Learning Outcomes**

#### **Students in the Biology Program will:**

1. Describe the organization and diversity of life at levels of complexity from subcellular to ecosystem.
2. Demonstrate an understanding of genetic information, hereditary processes, and their relevance to evolutionary change as a product of mutation and natural selection
3. Explain the important processes and pathways that sustain living organisms including functional systems for exchange of energy and matter
4. Solve problems by applying a scientific process of inquiry, including the effective use of appropriate techniques, instrumentation, and data analysis
5. Identify and interpret findings of scientists and communicate results of scientific work to others in the scientific community and the general public

## **Area of Emphasis**

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

- Animal Biology (p. 100)
  - Animal Biology (Accelerated) - Integrated with graduate Environmental Science & Policy program (p. 101)
- Biology for Educators (p. 103)
- Cell/Molecular (p. 104)
- Ecology and Conservation (p. 105)
- Microbiology (p. 107)
- Pre-Veterinary (p. 108)
  
- Biology Minor (p. 109)

The following are curriculum guides for a four-year Biology degree program and is subject to change without notice. Students should consult a Biology program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Biology Major with Emphasis in Animal Biology Curriculum Guide Example (p. 94)
- Biology Major with Emphasis in Ecology & Conservation Biology Curriculum Guide Example (p. 98)
- Biology Major with Emphasis in Cell/Molecular Biology Curriculum Guide Example (p. 97)
- Biology Major with Emphasis in Biology for Educators Curriculum Guide Example (p. 95)

**Chris Houghton**; Post-Doctoral Associate

**Rebecca Abler**; Professor; Ph.D., Virginia Polytechnic Institute and State University

**Mathew E Dornbush**; Professor; Ph.D., Iowa State University\*

**Michael L Draney**; Professor; Ph.D., University of Georgia\*

**Richard Hein**; Professor; Ph.D., University of Rhode Island

**Robert W Howe**; Professor; Ph.D., University of Wisconsin - Madison

**Amy T Wolf**; Professor; Ph.D., University of California - Davis, chair\*

**Patrick S Forsythe**; Associate Professor; Ph.D., Michigan State University\*

**Lisa Grubisha**; Associate Professor; Ph.D., University of California - Berkeley

**James C Marker**; Associate Professor; Ph.D., Brigham Young University\*

**Daniel J Meinhardt**; Associate Professor; Ph.D., University of Kansas\*

**Brian J Merkel**; Associate Professor; Ph.D., Virginia Commonwealth University

**Uwe Pott**; Associate Professor; Ph.D., University of Zurich (Switzerland)

**Carly Kibbe**; Assistant Professor; Ph.D., University of Wisconsin - Madison

**Paul R Mueller**; Assistant Professor; Ph.D., California Institute of Technology

**Renee Richer**; Assistant Professor; Ph.D., Harvard University

**Karen Stahlheber**; Assistant Professor; Ph.D., University of California - Santa Barbara

## Biology Curriculum Guides

The following are curriculum guides for a four-year Biology degree program and is subject to change without notice. Students should consult a Biology program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Biology Major with Emphasis in Animal Biology Curriculum Guide Example (p. 94)
- Biology Major with Emphasis in Ecology & Conservation Biology Curriculum Guide Example (p. 98)
- Biology Major with Emphasis in Cell/Molecular Biology Curriculum Guide Example (p. 97)
- Biology Major with Emphasis in Biology for Educators Curriculum Guide Example (p. 95)

## Curriculum Guide: Biology Major with Emphasis in Animal Biology

An example: Four year plan for **Biology Major with Emphasis in Animal Biology**

120 credits necessary to graduate. Assumes an 18-credit interdisciplinary minor.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed		3
	Credits	15
<b>Spring</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution	4
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 260	Introductory Statistics	4
General Ed / Core Minor		3
	Credits	16
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory (or Biology 302)	4

ENG COMP 105	English Composition II: Composition and Rhetoric	3
MATH 202	Calculus and Analytic Geometry I	4
General Ed / Core Minor		3
General Ed		3
	Credits	17
<b>Spring</b>		
BIOLOGY 303	Genetics	3
BIOLOGY 309	Evolutionary Biology	3
General Ed		3
General Ed		3
Core Minor		3
	Credits	15
<b>Junior</b>		
<b>Fall</b>		
ENV SCI 302	Principles of Ecology	4
General Ed		3
Biology Elective		3-4
Biology Elective		3-4
Elective / Minor		3
	Credits	16-18
<b>Spring</b>		
BIOLOGY 346	Comparative Physiology	3
General Ed		3
Biology Elective		3-4
Biology/Minor Elective		3-4
Elective		3
	Credits	15-17
<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
BIOLOGY 498 or BIOLOGY 497	Independent Study or Internship	2-3
General Ed		3
Biology Elective		3
Elective for Minor		3
Elective		3
	Credits	15-16
<b>Spring</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
Biology Elective		3-4
Elective for Minor		3-4
Elective		3-4
Elective		3-4
	Credits	13-17
	Total Credits	122-131

## Curriculum Guide: Biology Major with Emphasis in Biology for Educators

An example: Four year plan for **Biology Major with Emphasis in Biology for Educators**

120 credits necessary to graduate. Assumes an 18-credit interdisciplinary minor.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed		3
	Credits	15
<b>Spring</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution	4
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 260	Introductory Statistics	4
General Ed / Core Minor		3
	Credits	16
<b>Sophomore</b>		
<b>Fall</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	3
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory (or Biology 302)	4
MATH 202	Calculus and Analytic Geometry I	4
General Ed / Core Minor		3
General Ed		3
	Credits	17
<b>Spring</b>		
BIOLOGY 303	Genetics	3
BIOLOGY 309	Evolutionary Biology	3
General Ed		3
General Ed		3
Core Minor		3
	Credits	15
<b>Junior</b>		
<b>Fall</b>		
ENV SCI 302	Principles of Ecology	4
General Ed		3
Biology Elective		3-4
Biology Elective		3-4
Elective / Minor		3
	Credits	16-18
<b>Spring</b>		
BIOLOGY 346 or BIOLOGY 311	Comparative Physiology or Plant Physiology	3-4
General Ed		3
Biology Elective		3-4
Biology / Minor Elective		3-4
Elective		3
	Credits	15-18



<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
General Ed		3
General Ed		3
Elective		3
Elective		3
Elective		3
		<b>Credits</b>
		<b>16</b>
<b>Spring</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
Elective		3
Elective		3
Elective		3
Elective		3
		<b>Credits</b>
		<b>13</b>
		<b>Total Credits</b>
		<b>123-128</b>

## Curriculum Guide: Biology Major with Emphasis in Cell/Molecular Biology

An example: Four year plan for **Biology Major with Emphasis in Cell/Molecular**

120 credits necessary to graduate. Assumes an 18-credit minor.

Plan is a representation and categories of classes can be switched. Check with your advisor.

<b>Course</b>	<b>Title</b>	<b>Credits</b>
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Spring</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution	4
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 260	Introductory Statistics	4
General Ed / Core Minor		3
		<b>Credits</b>
		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 302	Principles of Microbiology	4
ENG COMP 105	English Composition II: Composition and Rhetoric	3
MATH 202	Calculus and Analytic Geometry I	4
General Ed		3

Elective		3
	Credits	17
<b>Spring</b>		
BIOLOGY 303	Genetics	3
BIOLOGY 309	Evolutionary Biology	3
General Ed		3
General Ed		3
Elective		3
	Credits	15
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	4
ENV SCI 302	Principles of Ecology	4
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I (or Bio- Organic in Spring)	4
General Ed		3
	Credits	15
<b>Spring</b>		
BIOLOGY 346	Comparative Physiology	3
CHEM 330 & CHEM 301	Biochemistry and Bio-Organic Chemistry Laboratory (or Organic I in Fall)	4
Biology 407		
General Ed		3
Elective		3
Elective		3
	Credits	16
<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
Elective		3
General Ed		3
Biology Elective		3
Elective for Minor		3
Elective		3
	Credits	16
<b>Spring</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
Biology Elective		3-4
Elective for Minor		3-4
Elective		3-4
Elective		3-4
	Credits	13-17
	Total Credits	123-127

## Curriculum Guide: Biology Major with Emphasis in Ecology & Conservation Biology

An example: Four year plan for **Biology Major with Emphasis in Ecology and Conservation Biology**

120 credits necessary to graduate. Assumes an 18-credit minor.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
First Year Seminar		3
General Ed		3
	Credits	15
<b>Spring</b>		
BIOLOGY 203	Principles of Biology: Organisms, Ecology, and Evolution	3
BIOLOGY 204	Principles of Biology Lab: Organisms, Ecology, and Evolution	1
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
MATH 260	Introductory Statistics	4
General Ed		3
	Credits	16
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 307 & BIOLOGY 308 or 302	Cell Biology or	4
ENG COMP 105	English Composition II: Composition and Rhetoric	3
MATH 202	Calculus and Analytic Geometry I	4
General Ed/Core Minor		3
General Ed		3
	Credits	17
<b>Spring</b>		
BIOLOGY 303	Genetics	3
ENV SCI 302	Principles of Ecology	4
General Ed		3
General Ed		3
Core Minor		3
	Credits	16
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 302	Principles of Microbiology	4
BIOLOGY 309	Evolutionary Biology	3
ENV SCI 469	Conservation Biology	4
General Ed		3
Elective / Minor		3
	Credits	17
<b>Spring</b>		
General Ed		3
Biology Elective		3-4
Biology/Minor Elective		3-4
Elective		3
Elective		3
	Credits	15-17

<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
BIOLOGY 498 or BIOLOGY 497	Independent Study or Internship	2-3
General Ed		3
Biology Elective		3
Elective for Minor		3
Elective		3
		Credits 15-16
<b>Spring</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
Biology Elective		3-4
Elective for Minor		3-4
Elective		3-4
Elective		3-4
		Credits 13-17
		Total Credits 124-131

All Biology Majors are encouraged to participate in an internship or independent study.

## Biology Major

### Area of Emphasis

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

- Animal Biology (p. 100)
- Animal Biology (Accelerated) - Integrated with graduate Environmental Science & Policy program (p. 101)
- Biology for Educators (p. 103)
- Cell/Molecular (p. 104)
- Ecology and Conservation (p. 105)
- Microbiology (p. 107)
- Pre-Veterinary (p. 108)

## Animal Biology Emphasis

## BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		25-29
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	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
<b>Writing (choose one course):</b> <sup>1</sup>		
ENG COMP 105	English Composition II: Composition and Rhetoric	
INFO SCI 390	Technical Writing	

**Upper Level Courses** 30-33**Required courses**

BIOLOGY 303	Genetics
BIOLOGY 309	Evolutionary Biology
ENV SCI 302	Principles of Ecology
BIOLOGY 307 & BIOLOGY 308 or BIOLOGY 302 or BIOLOGY 322	Cell Biology and Cell Biology Laboratory Principles of Microbiology Environmental Microbiology
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology

**Choose 12-14 credits from the following courses:**

BIOLOGY 304	Genetics Laboratory
BIOLOGY 310	Plant Biodiversity
BIOLOGY 320	Field Botany
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 355	Entomology
BIOLOGY 357	Marine Biology
BIOLOGY 401	Fish and Wildlife Population Dynamics
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
ENV SCI 337	Environmental GIS
ENV SCI 401	Stream Ecology
ENV SCI 403	Limnology
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
BIOLOGY 449	Wetland Ecology

**Seminar, 1 credit required**

BIOLOGY 490	Biology Seminar
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Total Credits

55-62

<sup>1</sup> Satisfied with an ACT English score of 32 or higher**Animal Biology Emphasis (Accelerated)****BIOLOGY Major**

Code	Title	Credits
<b>Supporting Courses</b>		25-29
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	Precalculus
MATH 202	Calculus and Analytic Geometry I
<b>Writing (choose one course):</b> <sup>1</sup>	
ENG COMP 105	English Composition II: Composition and Rhetoric
INFO SCI 390	Technical Writing
<b>Upper Level Courses</b>	<b>30-33</b>
<b>Required courses</b>	
BIOLOGY 303	Genetics
BIOLOGY 309	Evolutionary Biology
ENV SCI 302	Principles of Ecology
BIOLOGY 307 & BIOLOGY 308 or BIOLOGY 302 or BIOLOGY 322	Cell Biology and Cell Biology Laboratory Principles of Microbiology Environmental Microbiology
BIOLOGY 311/511 or BIOLOGY 346	Plant Physiology # Comparative Physiology
<b>Choose 12-14 credits from the following courses:</b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 310/510	Plant Biodiversity #
BIOLOGY 320/520	Field Botany #
BIOLOGY 322/522	Environmental Microbiology #
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 341/541	Ichthyology #
BIOLOGY 342/542	Ornithology #
BIOLOGY 343/543	Mammalogy #
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 355/555	Entomology #
BIOLOGY 357/557	Marine Biology #
BIOLOGY 401/601	Fish and Wildlife Population Dynamics #
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
ENV SCI 337/537	Environmental GIS #
ENV SCI 401/601	Stream Ecology #
ENV SCI 403/603	Limnology #
HUM BIOL 402/602	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

# Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the graduate Environmental Science & Policy office or refer to the graduate catalog (<http://catalog.uwgb.edu/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated>).

## Biology for Educators Emphasis

### BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		25-29
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	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
<b>Writing (choose one course):</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	
INFO SCI 390	Technical Writing	
<b>Upper Level Courses</b>		30-33
<b>Required courses</b>		
BIOLOGY 307 & BIOLOGY 308 or BIOLOGY 302	Cell Biology and Cell Biology Laboratory Principles of Microbiology	
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 Biodiversity	
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

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Total Credits 55-62

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

## Cell/Molecular Emphasis

### BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>28-29</b>
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	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
<b>Writing (choose one course):</b> <sup>1</sup>		
ENG COMP 105	English Composition II: Composition and Rhetoric	
INFO SCI 390	Technical Writing	
<b>Upper Level Courses</b>		<b>30-33</b>
<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

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

## Ecology and Conservation Emphasis

### BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		25-29
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	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
<b>Writing (choose one course):</b> <sup>1</sup>		
ENG COMP 105	English Composition II: Composition and Rhetoric	
INFO SCI 390	Technical Writing	
<b>Upper Level Courses</b>		30-33
<b>Required Courses</b>		
BIOLOGY 303	Genetics	
BIOLOGY 309	Evolutionary Biology	
ENV SCI 302	Principles of Ecology	

ENV SCI 469	Conservation Biology
BIOLOGY 307 & BIOLOGY 308 or BIOLOGY 302 or BIOLOGY 322	Cell Biology and Cell Biology Laboratory Principles of Microbiology Environmental Microbiology
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology
<b>Choose a minimum of 8 credits from the following courses:</b>	
BIOLOGY 310	Plant Biodiversity
BIOLOGY 311	Plant Physiology
BIOLOGY 312	Mycology
BIOLOGY 320	Field Botany
BIOLOGY 322	Environmental Microbiology
BIOLOGY 342	Ornithology
BIOLOGY 343	Mammalogy
BIOLOGY 355	Entomology
ENV SCI 401	Stream Ecology
BIOLOGY 357	Marine Biology
BIOLOGY 401	Fish and Wildlife Population Dynamics
ENV SCI 337	Environmental GIS
ENV SCI 403	Limnology
ENV SCI 467	Capstone in Environmental Science
BIOLOGY 449	Wetland Ecology
ENV SCI 499	Travel Course
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar

Total Credits

55-62

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

## Ecology and Conservation Emphasis (Accelerated)

### BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		25-29
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	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
<b>Writing (choose one course):</b> <sup>1</sup>		
ENG COMP 105	English Composition II: Composition and Rhetoric	
INFO SCI 390	Technical Writing	
<b>Upper Level Courses</b>		30-33
<b>Required Courses</b>		

BIOLOGY 303	Genetics
BIOLOGY 309	Evolutionary Biology
ENV SCI 302	Principles of Ecology
ENV SCI 469	Conservation Biology
BIOLOGY 307 & BIOLOGY 308 or BIOLOGY 302 or BIOLOGY 322	Cell Biology and Cell Biology Laboratory Principles of Microbiology Environmental Microbiology
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology
<b>Choose a minimum of 8 credits from the following courses:</b>	
BIOLOGY 310/510	Plant Biodiversity #
BIOLOGY 311/511	Plant Physiology #
BIOLOGY 312/512	Mycology #
BIOLOGY 320/520	Field Botany #
BIOLOGY 322/522	Environmental Microbiology #
BIOLOGY 342/542	Ornithology #
BIOLOGY 343/543	Mammalogy #
BIOLOGY 355/555	Entomology #
BIOLOGY 357/557	Marine Biology #
BIOLOGY 401/601	Fish and Wildlife Population Dynamics #
ENV SCI 337/537	Environmental GIS #
ENV SCI 401/601	Stream Ecology #
ENV SCI 403/603	Limnology #
ENV SCI 467	Capstone in Environmental Science
ENV SCI 499	Travel Course
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar

Total Credits

55-62

# Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the graduate Environmental Science & Policy office or refer to the graduate catalog (<http://catalog.uwgb.edu/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated>).

## Microbiology Emphasis

### BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		25-29
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>		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
<b>Writing (choose one course):<sup>1</sup></b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	

INFO SCI 390	Technical Writing	
<b>Upper Level Courses</b> <sup>2</sup>		34-38
<b>Required courses</b>		
BIOLOGY 302 or BIOLOGY 322	Principles of Microbiology Environmental Microbiology	
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology	
BIOLOGY 303	Genetics	
BIOLOGY 309	Evolutionary Biology	
ENV SCI 302	Principles of Ecology	
BIOLOGY 402	Advanced Microbiology	
<b>Chemistry (minimum of 8 credits of the following 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 330	Biochemistry	
CHEM 331	Biochemistry Laboratory	
<b>Electives (choose 8 or more credits from the following courses):</b>		
BIOLOGY 307	Cell Biology	
BIOLOGY 308	Cell Biology Laboratory	
BIOLOGY 312	Mycology	
BIOLOGY 407	Molecular Biology	
BIOLOGY 408	Molecular Biology Laboratory	
BIOLOGY 497	Internship	
HUM BIOL 422	Immunology	
HUM BIOL 423	Immunology Lab	
<b>Seminar (1 credit required):</b>		
BIOLOGY 490	Biology Seminar	
Total Credits		59-67

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

<sup>2</sup> Research experience and/or Internships are highly recommended. Credits from research and internships may be counted toward upper level electives.

Students planning to continue on to graduate school or a professional program are recommended to take calculus, physics and organic chemistry.

## Pre-Veterinary Emphasis

### BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	24-27
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>		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	

<b>Writing (choose one course):</b> <sup>1</sup>	
ENG COMP 105	English Composition II: Composition and Rhetoric
<b>Upper Level Courses</b>	
BIOLOGY 303	Genetics
BIOLOGY 307 & BIOLOGY 308 or BIOLOGY 302	Cell Biology and Cell Biology Laboratory Principles of Microbiology
BIOLOGY 309	Evolutionary Biology
ENV SCI 302	Principles of Ecology
BIOLOGY 346	Comparative Physiology
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 330	Biochemistry
<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 a minimum of 8 credits from the following courses:</b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 342	Ornithology
BIOLOGY 343	Mammalogy
BIOLOGY 345	Animal Behavior
BIOLOGY 411	Developmental Biology Laboratory
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar

Total Credits

71-74

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

## Biology Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>18</b>
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	
<b>Upper-Level Courses</b>		<b>17-18</b>
BIOLOGY 303	Genetics	
BIOLOGY 307 & BIOLOGY 308 or BIOLOGY 302	Cell Biology and Cell Biology Laboratory Principles of Microbiology	
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

(Bachelor of Business Administration)

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:

- Business Analysis
- Entrepreneurship
- Finance
- General Business
- Human Resource Management
- Management
- Marketing
- Supply Chain Management

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 an Accounting major or minor at any time with any number of credits through a simple online process. To declare, students must complete an online Declaration of Major/Minor/Certificate e-form (<https://www.uwgb.edu/business-administration/student-resources/declaring-a-major-or-minor>), which includes reading and accepting an Honor Code (pre-declaration form). Your advisor will be assigned to you after the e-form is received. If you are declaring a Business Administration major, you will need to select at least one area of emphasis: Entrepreneurship, Business Analysis, Finance, General Business, Human Resource Management, Management, Marketing, or Supply Chain Management.

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:

- Business Analysis (p. 113)
- Entrepreneurship (p. 114)
- Finance (p. 115)
- General Business (p. 116)
- Human Resource Management (p. 117)
- Management (p. 118)
- Marketing (p. 119)
- Supply Chain Management (p. 120)
- Business Administration Minor (p. 121)
- International Business Minor (p. 121)

## Business Administration Major - Emphasis in Finance

## Suggested Four-Year Plan

Course	Title	Credits
<b>First Year</b>		
<b>Spring</b>		
BUS ADM 216	Business Statistics	4
ECON 203	Micro Economic Analysis	3
	Credits	7
<b>Second Year</b>		
<b>Fall</b>		
ACCTG 201	Principles of Financial Accounting	4
MKTG 322	Introductory Marketing	3
ECON 202	Macro Economic Analysis	3
ENG COMP 105	English Composition II: Composition and Rhetoric	3
	Credits	13
<b>Spring</b>		
ACCTG 202	Principles of Managerial Accounting	3
FIN 343	Corporation Finance	3
MGMT 389	Organizational Behavior	3
	Credits	9
<b>Third Year</b>		
<b>Fall</b>		
FIN 344 or FIN 345 or FIN 442 or FIN 445 or FIN 446 or FIN 447 or FIN 450	Real Estate Principles or Risk Management and Insurance or Principles of Investment or International Financial Management or Advanced Corporation Finance or Derivatives or Bank Administration	3
FIN 347	Financial Markets and Institutions	3
	Credits	6
<b>Spring</b>		
BUS ADM 305	Legal Environment of Business	3

FIN 344 or FIN 345 or FIN 442 or FIN 445 or FIN 446 or FIN 447 or FIN 450	Real Estate Principles or Risk Management and Insurance or Principles of Investment or International Financial Management or Advanced Corporation Finance or Derivatives or Bank Administration	3
MKTG 327 or MKTG 421 or MKTG 423 or MKTG 424 or MKTG 428	Selling and Sales Management or International Marketing or Advertising or Marketing Research or Consumer Behavior	3
Credits		9
<b>Fourth Year</b>		
<b>Fall</b>		
HRM 362 or BUS ADM 384 or MGMT 472 or BUS ADM 481 or MGMT 482 or MGMT 489	Introduction to Human Resource Management or Supply Chain Management or Leadership Development or Small Business Management & Family Entrepreneurship or Strategic Management or Organizational Culture & Change	3
FIN 344 or FIN 345 or FIN 442 or FIN 445 or FIN 446 or FIN 447 or FIN 450	Real Estate Principles or Risk Management and Insurance or Principles of Investment or International Financial Management or Advanced Corporation Finance or Derivatives or Bank Administration	3
Credits		6
<b>Spring</b>		
BUS ADM 490		
FIN 344 or FIN 345 or FIN 442 or FIN 445 or FIN 446 or FIN 447 or FIN 450	Real Estate Principles or Risk Management and Insurance or Principles of Investment or International Financial Management or Advanced Corporation Finance or Derivatives or Bank Administration	3
Credits		3
Total Credits		53



**Gaurav Bansal**; Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Karl Schindl**; Professor; M.S., Northern Illinois University

**Vallari Chandna**; Associate Professor; Ph.D., University of North Texas

**Amulya Gurtu**; Associate Professor; Ph.D., Ryerson University

**James F Loebli**; Associate Professor; J.D., University of Wisconsin - Madison, chair

**David J Radosevich**; Associate Professor; Ph.D., University at Albany, State University of New York\*

**Sampathkumar Ranganathan**; Associate Professor; Ph.D., University of Memphis\*

**Matthew Raunio**; Associate Professor; M.B.A., University of Wisconsin-Oshkosh

**Mussie M Teclezion**; Associate Professor; D.B.A., Southern Illinois University at Carbondale

**Heather Clark**; Assistant Professor; Ph.D., Memorial University

**Vivek Madupu**; Assistant Professor; Ph.D., University of Memphis

**Dianne Murphy**; Assistant Professor; Ph.D., University of Wisconsin-Milwaukee

**Wenkai Zhou**; Assistant Professor; Ph.D., New Mexico State University

**Patricia A Albers**; Senior Lecturer; M.B.A., University of Wisconsin - Oshkosh

**Matthew Geimer**; Lecturer; J.D., University of Wisconsin - Madison

**Heather Kaminski**; Lecturer; M.B.A., Lakeland University

**Ryan Kauth**; Lecturer; M.B.A., Keller Graduate School of Management

## Business Administration Major

### Area of Emphasis

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

- Business Analysis (p. 113)
- Entrepreneurship (p. 114)
- Finance (p. 115)
- General Business (p. 116)
- Human Resource Management (p. 117)
- Management (p. 118)
- Marketing (p. 119)
- Supply Chain Management (p. 120)

### Business Analysis Emphasis

## BUSINESS ADMINISTRATION Major

Code	Title	Credits
<b>Supporting courses</b>		26-29
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 202	Business and Its Environment	
BUS ADM 216	Business Statistics	
or MATH 260	Introductory Statistics	
BUS ADM 230	Introduction to Management Information Systems	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	

ENG COMP 200	Professional Writing for Business Majors <sup>1</sup>	
PHILOS 227	Business Ethics	
<b>Upper-Level Core courses</b>		<b>15</b>
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MKTG 322	Introductory Marketing	
MGMT 389	Organizational Behavior	
MGMT 482	Strategic Management	
<b>Business Analysis Emphasis Required Courses</b>		<b>21</b>
BUS ADM 380	Project Management	
BUS ADM 383	Enterprise Resource Planning	
BUS ADM 384	Supply Chain Management	
BUS ADM 435	Foundations of Strategic Information Management	
BUS ADM 436	Analysis & Design of Business Information Systems	
BUS ADM 452	Business Analytics	
<b>Choose one of the following Finance courses:</b>		
FIN 344	Real Estate Principles	
FIN 345	Risk Management and Insurance	
FIN 347	Financial Markets and Institutions	
FIN 442	Principles of Investment	
FIN 445	International Financial Management	
FIN 446	Advanced Corporation Finance	
FIN 447	Derivatives	
FIN 450	Bank Administration	

Total Credits

62-65

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

## Entrepreneurship Emphasis

### BUSINESS ADMINISTRATION Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>26-29</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 202	Business and Its Environment	
BUS ADM 216	Business Statistics	
or MATH 260	Introductory Statistics	
BUS ADM 230	Introduction to Management Information Systems	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ENG COMP 200	Professional Writing for Business Majors <sup>1</sup>	
PHILOS 227	Business Ethics	
<b>Upper-Level Courses</b>		<b>15</b>
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MGMT 482	Strategic Management	
MKTG 322	Introductory Marketing	
<b>Entrepreneurship Emphasis Required Courses</b>		<b>21</b>
BUS ADM 371	e-Entrepreneurship and Digital Management	
BUS ADM 373	Entrepreneurial Finance	

BUS ADM 481	Small Business Management & Family Entrepreneurship
BUS ADM 485	New Venture Acceleration
<b>Choose one of the following Management courses:</b>	
BUS ADM 380	Project Management
BUS ADM 384	Supply Chain Management
<b>Choose one of the following Marketing courses:</b>	
MKTG 327	Selling and Sales Management
MKTG 421	International Marketing
MKTG 424	Marketing Research
MKTG 428	Consumer Behavior
<b>Choose one of the following Finance courses:</b>	
FIN 345	Risk Management and Insurance
FIN 347	Financial Markets and Institutions
FIN 442	Principles of Investment
FIN 445	International Financial Management
FIN 450	Bank Administration

Total Credits

62-65

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

## Finance Emphasis

### BUSINESS ADMINISTRATION Major

Code	Title	Credits
<b>Supporting Courses</b>		26-29
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 202	Business and Its Environment	
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics	
BUS ADM 230	Introduction to Management Information Systems	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ENG COMP 200	Professional Writing for Business Majors <sup>1</sup>	
PHILOS 227	Business Ethics	
<b>Upper-Level Courses</b>		15
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MGMT 482	Strategic Management	
MKTG 322	Introductory Marketing	
<b>Finance Emphasis Required Courses</b>		21
FIN 347	Financial Markets and Institutions	
<b>Choose four of the following Finance courses:</b>		
FIN 344	Real Estate Principles	
FIN 345	Risk Management and Insurance	
FIN 442	Principles of Investment	
FIN 445	International Financial Management	
FIN 446	Advanced Corporation Finance	
FIN 447	Derivatives	
FIN 450	Bank Administration	
<b>Choose one of the following Management courses:</b>		

BUS ADM 380	Project Management
BUS ADM 384	Supply Chain Management
BUS ADM 452	Business Analytics
BUS ADM 481	Small Business Management & Family Entrepreneurship
BUS ADM 499	Travel Course
HRM 362	Introduction to Human Resource Management
MGMT 472	Leadership Development
MGMT 489	Organizational Culture & Change
<b>Choose one of the following Marketing courses:</b>	
BUS ADM 384	Supply Chain Management
BUS ADM 452	Business Analytics
MKTG 327	Selling and Sales Management
MKTG 421	International Marketing
MKTG 423	Advertising
MKTG 424	Marketing Research
MKTG 426	Marketing Management
MKTG 428	Consumer Behavior

Total Credits

62-65

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

## General Business Emphasis

### BUSINESS ADMINISTRATION Major

Code	Title	Credits
<b>Supporting Courses</b>		26-29
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 202	Business and Its Environment	
BUS ADM 230	Introduction to Management Information Systems	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
BUS ADM 216	Business Statistics	
or MATH 260	Introductory Statistics	
ENG COMP 200	Professional Writing for Business Majors <sup>1</sup>	
PHILOS 227	Business Ethics	
<b>Upper-Level Courses</b>		15
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MGMT 482	Strategic Management	
MKTG 322	Introductory Marketing	
<b>General Business Emphasis Required Courses: Choose seven of the following courses</b>		21
BUS ADM 384	Supply Chain Management	
BUS ADM 452	Business Analytics	
BUS ADM 481	Small Business Management & Family Entrepreneurship	
FIN 347	Financial Markets and Institutions	
FIN 442	Principles of Investment	
HRM 362	Introduction to Human Resource Management	
MKTG 423	Advertising	

MKTG 428

Consumer Behavior

Total Credits

62-65

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

## Human Resource Management Emphasis

### BUSINESS ADMINISTRATION Major

Code	Title	Credits
<b>Supporting Courses</b>		26-29
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 202	Business and Its Environment	
BUS ADM 230	Introduction to Management Information Systems	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics	
ENG COMP 200	Professional Writing for Business Majors	
PHILOS 227	Business Ethics	
<b>Upper-Level Courses</b>		15
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MGMT 482	Strategic Management	
MKTG 322	Introductory Marketing	
<b>Human Resource Management Emphasis Required Courses</b>		21
HRM 362	Introduction to Human Resource Management	
HRM 466	Legal Issues in Human Resource Management	
<b>Choose two of the following Human Resource Management courses:</b>		
HRM 460	Employee Development	
HRM 465	Recruitment and Selection	
HRM 467	Compensation and Benefits Planning	
<b>Choose one of the following Management courses:</b>		
BUS ADM 380	Project Management	
BUS ADM 384	Supply Chain Management	
BUS ADM 452	Business Analytics	
BUS ADM 481	Small Business Management & Family Entrepreneurship	
BUS ADM 499	Travel Course	
MGMT 472	Leadership Development	
MGMT 489	Organizational Culture & Change	
<b>Choose one of the following Finance courses:</b>		
FIN 344	Real Estate Principles	
FIN 345	Risk Management and Insurance	
FIN 347	Financial Markets and Institutions	
FIN 442	Principles of Investment	
FIN 445	International Financial Management	
FIN 446	Advanced Corporation Finance	
FIN 447	Derivatives	
FIN 450	Bank Administration	
<b>Choose one of the following Marketing courses:</b>		
BUS ADM 384	Supply Chain Management	

BUS ADM 452	Business Analytics
MKTG 327	Selling and Sales Management
MKTG 421	International Marketing
MKTG 423	Advertising
MKTG 424	Marketing Research
MKTG 426	Marketing Management
MKTG 428	Consumer Behavior

Total Credits

62-65

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

## Management Emphasis

### BUSINESS ADMINISTRATION Major

Code	Title	Credits
<b>Supporting Courses</b>		26-29
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 202	Business and Its Environment	
BUS ADM 230	Introduction to Management Information Systems	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics	
ENG COMP 200	Professional Writing for Business Majors <sup>1</sup>	
PHILOS 227	Business Ethics	
<b>Upper-Level Courses</b>		15
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MGMT 482	Strategic Management	
MKTG 322	Introductory Marketing	
<b>Management Emphasis Required Courses</b>		21
HRM 362	Introduction to Human Resource Management	
MGMT 472	Leadership Development	
MGMT 489	Organizational Culture & Change	
<b>Choose two of the following Management courses:</b>		
BUS ADM 334	Logistics Management	
BUS ADM 380	Project Management	
BUS ADM 381	Operations Management	
BUS ADM 383	Enterprise Resource Planning	
BUS ADM 384	Supply Chain Management	
BUS ADM 452	Business Analytics	
BUS ADM 481	Small Business Management & Family Entrepreneurship	
BUS ADM 499	Travel Course	
<b>Choose one of the following Finance courses:</b>		
FIN 344	Real Estate Principles	
FIN 345	Risk Management and Insurance	
FIN 347	Financial Markets and Institutions	
FIN 442	Principles of Investment	
FIN 445	International Financial Management	
FIN 446	Advanced Corporation Finance	

FIN 447	Derivatives
FIN 450	Bank Administration
<b>Choose one of the following Marketing courses:</b>	
BUS ADM 384	Supply Chain Management
BUS ADM 452	Business Analytics
MKTG 327	Selling and Sales Management
MKTG 421	International Marketing
MKTG 423	Advertising
MKTG 424	Marketing Research
MKTG 426	Marketing Management
MKTG 428	Consumer Behavior
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Total Credits	62-65

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

## Marketing Emphasis

### BUSINESS ADMINISTRATION Major

Code	Title	Credits
<b>Supporting Courses</b>		26-29
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 202	Business and Its Environment	
BUS ADM 230	Introduction to Management Information Systems	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics	
ENG COMP 200	Professional Writing for Business Majors <sup>1</sup>	
PHILOS 227	Business Ethics	
<b>Upper-Level Courses</b>		15
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MGMT 482	Strategic Management	
MKTG 322	Introductory Marketing	
<b>Marketing Emphasis Required Courses</b>		21
MKTG 421	International Marketing	
MKTG 424	Marketing Research	
MKTG 428	Consumer Behavior	
<b>Choose two of the following Marketing courses:</b>		
BUS ADM 452	Business Analytics	
BUS ADM 499	Travel Course	
MKTG 327	Selling and Sales Management	
MKTG 423	Advertising	
MKTG 426	Marketing Management	
<b>Choose one of the following Finance courses:</b>		
FIN 344	Real Estate Principles	
FIN 345	Risk Management and Insurance	
FIN 347	Financial Markets and Institutions	
FIN 442	Principles of Investment	
FIN 445	International Financial Management	

FIN 446	Advanced Corporation Finance
FIN 447	Derivatives
FIN 450	Bank Administration
<b>Choose one of the following Management courses:</b>	
BUS ADM 380	Project Management
BUS ADM 384	Supply Chain Management
BUS ADM 452	Business Analytics
BUS ADM 481	Small Business Management & Family Entrepreneurship
HRM 362	Introduction to Human Resource Management
MGMT 472	Leadership Development
MGMT 489	Organizational Culture & Change
<hr/>	
Total Credits	62-65

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

## Supply Chain Management Emphasis

Code	Title	Credits
<b>Supporting Courses</b>		<b>26-29</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 202	Business and Its Environment	
BUS ADM 230	Introduction to Management Information Systems	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
BUS ADM 216 or MATH 260	Business Statistics Introductory Statistics	
ENG COMP 200	Professional Writing for Business Majors <sup>1</sup>	
PHILOS 227	Business Ethics	
<b>Upper-Level Courses</b>		<b>36</b>
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MGMT 482	Strategic Management	
MKTG 322	Introductory Marketing	
<b>Supply Chain Emphasis Required Courses</b>		
BUS ADM 334	Logistics Management	
BUS ADM 380	Project Management	
BUS ADM 381	Operations Management	
BUS ADM 383	Enterprise Resource Planning	
BUS ADM 384	Supply Chain Management	
<b>Choose one of the following Marketing courses:</b>		
BUS ADM 452	Business Analytics	
MKTG 327	Selling and Sales Management	
MKTG 421	International Marketing	
MKTG 423	Advertising	
MKTG 424	Marketing Research	
MKTG 426	Marketing Management	
MKTG 428	Consumer Behavior	
<b>Choose one of the following Finance courses</b>		
FIN 344	Real Estate Principles	
FIN 345	Risk Management and Insurance	
FIN 347	Financial Markets and Institutions	



FIN 442	Principles of Investment
FIN 445	International Financial Management
FIN 446	Advanced Corporation Finance
FIN 447	Derivatives
FIN 450	Bank Administration

Total Credits 62-65

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

## Business Administration Minors

- Business Administration Minor (p. 121)
- I (p. 121)nternational Business Minor (p. 121)

## Business Administration Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>17</b>
ACCTG 201	Principles of Financial Accounting	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
BUS ADM 202 or BUS ADM 282	Business and Its Environment Personal Financial Planning	
<b>Choose one of the following courses:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>12</b>
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Introductory Marketing	
Total Credits		29

## International Business Minor

In addition to coursework, students need to complete two requirements:

1. Two (2) years of college-level language courses or equivalent competency in a language other than English. See Chair of Modern Languages for approval.
2. International internship or participation in a study abroad program with a Business focus. See faculty adviser for approval.

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
<b>Upper-Level Courses</b>		<b>13</b>
ACCTG 201	Principles of Financial Accounting	
BUS ADM 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Introductory Marketing	
<b>International Courses</b>		<b>6</b>
<b>Choose one of the following courses:</b>		
ECON 403	International Economics	

FIN 445	International Financial Management
MKTG 421	International Marketing
<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
SPANISH 361	The Cultures of Spain

Total Credits

25

## Chemistry

(Bachelor of Science)

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.

UW-Green Bay offers three emphases in chemistry. Two emphases are approved by the American Chemical Society and are designed for students who are interested in a career as a practicing chemist at the bachelor's level or who are interested in advancing their education in graduate or professional school. The other emphasis is appropriate for students who are interested in working in a chemistry intensive industry or teaching chemistry at the secondary level.

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.

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.

## Area of Emphasis

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

- Chemistry (p. 129)
- American Chemical Society Certified in Chemistry (p. 127)
- American Chemical Society Certified in Environmental Chemistry (p. 128)
- Chemistry Minor (p. 130)

The following are curriculum guides for a four-year Chemistry degree program and is subject to change without notice. Students should consult a Chemistry program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Chemistry
  - General Major (p. 126)
  - ACS Certified Major (p. 123)
  - ACS Certified Major in Environmental Chemistry (p. 125)

**Michael E Zorn**; Professor; Ph.D., University of Wisconsin - Madison\*

**Franklin M Chen**; Associate Professor; Ph.D., Princeton University\*

**Amy Kabrhel**; Associate Professor; Ph.D., University of Minnesota

**James Kabrhel**; Associate Professor; Ph.D., University of Minnesota-Twin Cities

**Mark Klemp**; Associate Professor; Ph.D., University of Michigan

**Michael J McIntire**; Associate Professor; Ph.D., University of California - Riverside, chair

**Debra A Pearson**; Associate Professor; Ph.D., University of California - Davis

**Julie M Wondergem**; Associate Professor; Ph.D., Marquette University

**Mandeep Bakshi**; Assistant Professor; Ph.D., Panjab University (India)

**Georgette Heyrman**; Assistant Professor; Ph.D., Northwestern University

**Jeremy J Intemann**; Assistant Professor; Ph.D., Iowa State University

**Breyawn Lybbert**; Assistant Professor; Ph.D., University of California-Los Angeles

**Nydia D Villanueva**; Senior Lecturer; Ph.D., University of Connecticut

## Chemistry Curriculum Guides

The following are curriculum guides for a four-year Chemistry degree program and is subject to change without notice. Students should consult a Chemistry program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Chemistry
  - General Major (p. 126)
  - ACS Certified Major (p. 123)
  - ACS Certified Major in Environmental Chemistry (p. 125)

## Curriculum Guide: ACS Certified Chemistry Major

An example: Four year plan for **Chemistry - ACS Certified Major - Professional Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Some upper level courses are only taught once every other year. Check with your advisor for course periodicity.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
MATH 202	Calculus and Analytic Geometry I	4
First Year Seminar		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Spring</b>		
CHEM 207	Laboratory Safety	1
CHEM 212	Principles of Chemistry II	4

CHEM 214	Principles of Chemistry II Laboratory	1
MATH 203	Calculus and Analytic Geometry II	4
General Ed		3
General Ed		3
		Credits
		16
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 302	Organic Chemistry I	3
CHEM 304	Organic Chemistry Laboratory I	1
MATH 209	Multivariate Calculus	4
PHYSICS 201	Principles of Physics I	5
General Ed		3
		Credits
		16
<b>Spring</b>		
CHEM 303	Organic Chemistry II	3
CHEM 305	Organic Chemistry Laboratory II	1
CHEM 311	Analytical Chemistry	4
PHYSICS 202	Principles of Physics II	5
General Ed		3
		Credits
		16
<b>Junior</b>		
<b>Fall</b>		
CHEM 320	Thermodynamics and Kinetics	3
CHEM 322	Thermodynamics and Kinetics Laboratory	1
CHEM 330	Biochemistry	3
CHEM 331	Biochemistry Laboratory	1
General Ed		3
General Ed		3
		Credits
		14
<b>Spring</b>		
CHEM 321	Structure of Matter	3
CHEM 323	Structure of Matter Laboratory	1
General Ed		3
General Ed		3
Elective		3
Elective		3
		Credits
		16
<b>Senior</b>		
<b>Fall</b>		
CHEM 413	Instrumental Analysis	4
CHEM 495	Research in Chemistry	1-5
General Ed		3
Elective		3
Elective		3
		Credits
		14-18
<b>Spring</b>		
CHEM 410	Inorganic Chemistry	3
CHEM 411	Inorganic Chemistry Laboratory	1
Elective		3
Elective		3
Elective		3
		Credits
		13
		Total Credits
		120-124

# Curriculum Guide: ACS Certified Major in Environmental Chemistry

An example: Four year plan for **Chemistry – ACS Certified Major in Environmental Chemistry - Professional Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Some upper level courses are only taught every other year. Check with your advisor for course periodicity.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
GEOSCI 202	Physical Geology	4
MATH 202	Calculus and Analytic Geometry I	4
		Credits
		17
<b>Spring</b>		
BIOLOGY 302	Principles of Microbiology	4
CHEM 207	Laboratory Safety	1
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
ENV SCI 102	Introduction to Environmental Sciences	3
MATH 203	Calculus and Analytic Geometry II	4
		Credits
		17
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 302	Organic Chemistry I	3
CHEM 304	Organic Chemistry Laboratory I	1
MATH 260	Introductory Statistics	4
PHYSICS 201	Principles of Physics I	5
General Ed		3
		Credits
		16
<b>Spring</b>		
CHEM 303	Organic Chemistry II	3
CHEM 305	Organic Chemistry Laboratory II	1
CHEM 311	Analytical Chemistry	4
PHYSICS 202	Principles of Physics II	5
General Ed		3
		Credits
		16
<b>Junior</b>		
<b>Fall</b>		
CHEM 320	Thermodynamics and Kinetics	3
CHEM 322	Thermodynamics and Kinetics Laboratory	1
CHEM 330	Biochemistry	3
CHEM 331	Biochemistry Laboratory	1
General Ed		3
Elective		3
		Credits
		14
<b>Spring</b>		
CHEM 321	Structure of Matter	3

CHEM 323	Structure of Matter Laboratory	1
ENV SCI 305	Environmental Systems	4
General Ed		3
General Ed		3
Elective		3
Credits		17
<b>Senior</b>		
<b>Fall</b>		
CHEM 413	Instrumental Analysis	4
CHEM 495	Research in Chemistry	1-5
General Ed		3
General Ed		3
General Ed		3
Credits		14-18
<b>Spring</b>		
CHEM 410	Inorganic Chemistry	3
CHEM 411	Inorganic Chemistry Laboratory	1
General Ed		3
General Ed		3
Credits		10
Total Credits		121-125

## Curriculum Guide: Chemistry major - General emphasis

An example: Four year plan for **Chemistry Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
MATH 202	Calculus and Analytic Geometry I	4
First Year Seminar		3
General Ed		3
Credits		15
<b>Spring</b>		
CHEM 207	Laboratory Safety	1
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
MATH 203	Calculus and Analytic Geometry II	4
General Ed		3
General Ed		3
Credits		16
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 302	Organic Chemistry I	3
CHEM 304	Organic Chemistry Laboratory I	1
PHYSICS 201	Principles of Physics I	5
General Ed		3
Elective		3
Credits		15
<b>Spring</b>		
CHEM 303	Organic Chemistry II	3

CHEM 305	Organic Chemistry Laboratory II	1
CHEM 311	Analytical Chemistry	4
PHYSICS 202	Principles of Physics II	5
General Ed		3
	Credits	16
<b>Junior</b>		
<b>Fall</b>		
CHEM 320	Thermodynamics and Kinetics	3
CHEM 322	Thermodynamics and Kinetics Laboratory	1
General Ed		3
General Ed		3
Elective		3
Elective		3
	Credits	16
<b>Spring</b>		
CHEM 321	Structure of Matter	3
CHEM 323	Structure of Matter Laboratory	1
General Ed		3
General Ed		3
Elective		3
	Credits	13
<b>Senior</b>		
<b>Fall</b>		
CHEM 413	Instrumental Analysis	4
General Ed		3
Elective		3
Elective		3
Elective		3
	Credits	16
<b>Spring</b>		
Chemistry Upper Level Elective Lecture		3
Chemistry Upper Level Elective Lab		1
Elective		3
Elective		3
Elective		3
	Credits	13
	Total Credits	120

## Chemistry Major

### Area of Emphasis

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

- Chemistry Emphasis (p. 129)
- American Chemical Society Certified in Chemistry Emphasis (p. 127)
- American Chemical Society Certified in Environmental Chemistry Emphasis (p. 128)

## American Chemical Society Certified in Chemistry Emphasis

### CHEMISTRY Major

Code	Title	Credits
<b>Supporting Courses</b>		
CHEM 207	Laboratory Safety	37
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	
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	
<b>Upper-Level Courses</b>		<b>35</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)	
Total Credits		72

## American Chemical Society Certified in Environmental Chemistry Emphasis

### CHEMISTRY Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>48</b>
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 207	Laboratory Safety	
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 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

## General Emphasis

## CHEMISTRY Major

Code	Title	Credits
<b>Supporting Courses</b>		29
CHEM 207	Laboratory Safety	
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 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>		28
<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>		
BIOLOGY 407	Molecular Biology	
BIOLOGY 408	Molecular Biology Laboratory	
CHEM 330	Biochemistry	
CHEM 331	Biochemistry Laboratory	
CHEM 402	Advanced Organic Chemistry	
CHEM 403	Advanced Organic Chemistry Laboratory	
CHEM 410	Inorganic Chemistry	
CHEM 411	Inorganic Chemistry Laboratory	
CHEM 417	Nuclear Physics and Radiochemistry	
CHEM 420	Polymer Chemistry	

CHEM 423	Polymer Chemistry Laboratory	
Total Credits		57

## Chemistry Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>11</b>
CHEM 207	Laboratory Safety	
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>		<b>12</b>
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>		
BIOLOGY 407 & BIOLOGY 408	Molecular Biology and Molecular Biology Laboratory	
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 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>	
CHEM 420 & CHEM 423	Polymer Chemistry and Polymer Chemistry Laboratory	
Total Credits		23

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

## Communication

(Bachelor of Arts or Bachelor of Science)

The Communication program 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 seven areas of emphasis.

- Students in **health communication** study internal and external communications in the healthcare environment. Students will learn how to (1) improve provider/patient interactions, (2) enhance communication within healthcare organizations, and (3) how to inform the public about healthcare issues, threats, and crises.
- Students in **journalism** 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 **mass media** 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.
- 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.
- Students in **social media strategy** focus on the strategies and tactics needed to advance organizational goals. Students will be prepared for long-term careers working as social media managers, specialists, curators, and content providers.
- Students in **sports communication** focus on the unique dynamics associated with sports media, organizations, teams, and players. Students will be prepared for long-term careers working as sport reporters, broadcasters, media specialists, or public relations professionals.

## Area of Emphasis

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

- Health Communication (p. 133)
- Journalism (p. 134)
- Mass Media (p. 134)
- Organizational Communication (p. 135)
- Public Relations (p. 135)
- Social Media Communication (p. 136)
- Sports Communication (p. 136)
  
- Communication Minor (p. 137)

The following is only an example of a four-year Communication degree program and is subject to change without notice. Students should consult a Communication program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

Communication Curriculum Guide (p. 132)

**Phillip G Clampitt**; Professor; Ph.D., University of Kansas, chair

**Bryan James Carr**; Associate Professor; Ph.D., University of Oklahoma

**Katie Turkiewicz**; Associate Professor; Ph.D., University of Wisconsin - Milwaukee

**Mary D Bina**; Senior Lecturer; B.F.A., University of Wisconsin - Milwaukee

**Shauna M Froelich**; Lecturer; JD, Marquette University

# Communication Curriculum Guide

An example: Four year plan for **Communications Major with Mass Media Emphasis**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
COMM 102	Introduction to Communication	3
First Year Seminar		3
General Ed		3
General Ed		3
Elective		3
		Credits
		15
<b>Spring</b>		
COMM 133	Fundamentals of Public Address	3
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication or Small Group Communication	3
General Ed		3
General Ed		3
Elective		3
		Credits
		15
<b>Sophomore</b>		
<b>Fall</b>		
COMM 205	Elements of Media	3
COMM 290	Communication Problems and Research Methods	3
General Ed		3
General Ed		3
Elective		3
		Credits
		15
<b>Spring</b>		
COMM 185	Business and Media Writing	3
General Ed		3
General Ed		3
Elective		3
Elective		3
		Credits
		12
<b>Junior</b>		
<b>Fall</b>		
COMM 302	News Reporting and Writing	3
COMM 335	Organizational Communication	3
General Ed		3
Elective		3
Elective		3
		Credits
		15
<b>Spring</b>		
COMM 306	Radio Broadcasting	3
COMM 308	Information Technologies	3
COMM 380	Communication Law	3
General Ed		3
Elective		3

Upper Level Comm Course		3
	Credits	18
<b>Senior</b>		
<b>Fall</b>		
COMM 307	Video Production	3
COMM 309	Mass Media Advertising	3
COMM 497	Internship (Or Upper Level Comm Course)	3
General Ed		3
Elective		3
	Credits	15
<b>Spring</b>		
COMM 430	Information, Media and Society	3
COMM 477	Social Media Strategies	3
General Ed		3
Elective		3
Elective		3
	Credits	15
	Total Credits	120

## Communication Major

### Area of Emphasis

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

- Health Communication (p. 133)
- Journalism (p. 134)
- Mass Media (p. 134)
- Organizational Communication (p. 135)
- Public Relations (p. 135)
- Social Media Communication (p. 136)
- Sports Communication (p. 136)

## Health Communication Emphasis

### COMMUNICATION Major

Code	Title	Credits
<b>Core Courses:</b>		18
COMM 102	Introduction to Communication	
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	
<b>Upper Level Courses:</b>		30
COMM 305	Principles of Public Relations/Corporate Communications	
COMM/INFO SCI 308	Information Technologies	
COMM 335	Organizational Communication	
COMM 370	Health Communication Campaigns and Strategies	
COMM 380	Communication Law	
COMM/INFO SCI 430	Information, Media and Society	
COMM 470	Health Communication and the Internet	
COMM 477	Social Media Strategies	

COMM 480 Cases in Communications and Media Management

**Choose 3 credits of upper level Communication electives**

Total Credits

48

## Journalism Emphasis

### COMMUNICATION Major

Code	Title	Credits
<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	
<b>Choose three upper-level elective courses in Communication</b> <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

### COMMUNICATION Major

Code	Title	Credits
<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 306	Radio Broadcasting	
COMM 307	Video Production	
COMM 309	Mass Media Advertising	
COMM 378	Advanced Video Production	

COMM 380	Communication Law	
COMM/INFO SCI 430	Information, Media and Society	
COMM 477	Social Media Strategies	
<b>Choose upper-level Communication elective courses (totaling 6 credits) <sup>2</sup></b>		
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

### COMMUNICATION Major

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		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 <sup>1</sup></b>		30
COMM 305	Principles of Public Relations/Corporate Communications	
COMM/INFO SCI 308	Information Technologies	
COMM 333	Persuasion and Argumentation	
COMM 335	Organizational Communication	
COMM 336	Theories of the Interview	
COMM 380	Communication Law	
COMM 477	Social Media Strategies	
COMM 480	Cases in Communications and Media Management	
<b>Choose two upper-level elective courses in Communication <sup>2</sup></b>		
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

### COMMUNICATION Major

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		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	

Upper-Level Courses <sup>1</sup>		30
COMM 302	News Reporting and Writing	
COMM 305	Principles of Public Relations/Corporate Communications	
COMM 335	Organizational Communication	
COMM 380	Communication Law	
COMM 382	Public Relations Writing	
COMM 474	Media Workshop I	
COMM 477	Social Media Strategies	
COMM 480	Cases in Communications and Media Management	
<b>Choose 2 upper-level elective courses in Communication <sup>2</sup></b>		
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.

## Social Media Communications Emphasis

### COMMUNICATION Major

Code	Title	Credits
<b>Supporting Courses</b>		18
<b>Core Courses <sup>1</sup></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>		30
COMM 305	Principles of Public Relations/Corporate Communications	
COMM 307	Video Production	
COMM 308	Information Technologies	
COMM 335	Organizational Communication	
COMM 380	Communication Law	
COMM 382	Public Relations Writing	
COMM 425	Digital Journalism	
COMM 477	Social Media Strategies	
INFO SCI 410	Analytics and Information Problems	
Any Upper-Level COMM or IS Elective (Totaling 3 Credits) <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.

## Sports Communication Emphasis

### COMMUNICATION Major

Code	Title	Credits
<b>Supporting Courses</b>		18
<b>Core Courses <sup>1</sup></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>		<b>30</b>
COMM 302	News Reporting and Writing	
COMM 304	Sports, Media, and Society	
COMM 305	Principles of Public Relations/Corporate Communications	
COMM 307	Video Production	
COMM 380	Communication Law	
COMM 382	Public Relations Writing	
COMM 390	Sports Writing, Promotion, and Public Relations	
COMM 425	Digital Journalism	
COMM 480 or COMM 477	Cases in Communications and Media Management Social Media Strategies	
Any Upper-Level COMM or IS Elective (totaling 3 Credits) <sup>2</sup>		
Total Credits		<b>48</b>

<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

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		<b>18</b>
<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 <sup>1</sup></b>		<b>15</b>
<b>Choose five upper-level elective courses in Communication <sup>2</sup></b>		
Total Credits		<b>33</b>

<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

(Bachelor of Science)

Students interested in Computer Science have several options, including an emphasis in Information Assurance and Security (aka, cybersecurity), a more traditional emphasis in Software Engineering, and a minor. The two Computer Science emphases offer an expanding array of theoretical and applied work that prepares students to enter the job market or pursue graduate studies. The minor in Computer Science offers lower-level 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 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, cybersecurity, 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 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.

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. 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 25 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.

## Area of Emphasis

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

- Information Assurance and Security Emphasis (p. 140)
- Software Engineering Emphasis (p. 141)
- Computer Science Minor (p. 141)

The following is only an example of a four-year Computer Science degree program and is subject to change without notice. Students should consult a Computer Science program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

Computer Science Curriculum Guide (p. 138)

**Michael E Zorn**; Professor; Ph.D., University of Wisconsin - Madison, chair\*

**Tanim Ahsan**; Assistant Professor; Ph.D., Marquette University

**Iftekhhar Anam**; Assistant Professor; Ph.D., University of Memphis

**Ankur Chattopadhyay**; Assistant Professor; Ph.D., University of Colorado at Colorado Springs

## Computer Science Curriculum Guide

An example: Four year plan for **Computer Science Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
COMP SCI 201	Introduction to Computing & Internet Technologies	3
COMP SCI 231	Introduction to IT Operations	3
COMM 133 or COMM 166	Fundamentals of Public Address or Fundamentals of Interpersonal Communication	3
First Year Seminar		3
General Ed		3
	Credits	15
<b>Spring</b>		
COMP SCI 240	Discrete Mathematics	4
COMP SCI 256	Introduction to Software Design	4
MATH 260	Introductory Statistics	4
General Ed		3
	Credits	15
<b>Sophomore</b>		
<b>Fall</b>		
COMP SCI 221	Database Design & Management	3
COMP SCI 292	Introduction to Mobile Platforms and Apps	3
COMP SCI 316	Advanced Software Design	4
General Ed		3
Elective		3
	Credits	16
<b>Spring</b>		
COMP SCI 351	Data Structures	4
MATH 202	Calculus and Analytic Geometry I	4
General Ed		3
Elective		3
	Credits	14
<b>Junior</b>		
<b>Fall</b>		
COMP SCI 353	Computer Architecture and Organization	3
COMP SCI 371	Advanced Object-Oriented Design	4
General Ed		3
General Ed		3
Elective		3
	Credits	16
<b>Spring</b>		
COMP SCI 372	Software Engineering	3
Upper Level Elective for COMP SCI Major		3
Elective		3
General Ed		3
General Ed		3
	Credits	15
<b>Senior</b>		
<b>Fall</b>		
COMP SCI 357	Theory of Programming Languages	3
COMP SCI 464	Artificial Intelligence	3
General Ed		3

Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
COMP SCI 450	Theory of Algorithms	3
COMP SCI 452	Operating Systems Using Linux	3
General Ed		3
Elective		3
Elective		3
	Credits	15
	Total Credits	121

## Computer Science Major

### Area of Emphasis

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

- Information Assurance and Security Emphasis (p. 140)
- Software Engineering Emphasis (p. 141)

## Information Assurance and Security Emphasis

### COMPUTER SCIENCE Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>31</b>
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	
COMP SCI 292	Introduction to Mobile Platforms and Apps	
MATH 202	Calculus and Analytic Geometry I	
MATH 260	Introductory Statistics	
<b>Choose 1 of These COMM Courses:</b>		
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Information Assurance and Security Emphasis</b>		<b>33</b>
COMP SCI 316	Advanced Software Design	
COMP SCI 351	Data Structures	
COMP SCI 353	Computer Architecture and Organization	
COMP SCI 358	Data Communication and Computer Networks	
COMP SCI 361	Information Assurance and Security	
COMP SCI 371	Advanced Object-Oriented Design	
COMP SCI 452	Operating Systems Using Linux	
COMP SCI 464	Artificial Intelligence	
COMP SCI 490	Capstone Essay in Computer Science	
+3 credits upper level in COMP SCI, MATH, INFO SCI or COMM		
Total Credits		64

## Software Engineering Emphasis

### COMPUTER SCIENCE Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>31</b>
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	
COMP SCI 292	Introduction to Mobile Platforms and Apps	
MATH 202	Calculus and Analytic Geometry I	
MATH 260	Introductory Statistics	
<b>Choose 1 of These COMM Courses:</b>		
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Software Engineering Emphasis</b>		<b>33</b>
COMP SCI 316	Advanced Software Design	
COMP SCI 351	Data Structures	
COMP SCI 353	Computer Architecture and Organization	
COMP SCI 357	Theory of Programming Languages	
COMP SCI 371	Advanced Object-Oriented Design	
COMP SCI 372	Software Engineering	
COMP SCI 450	Theory of Algorithms	
COMP SCI 452	Operating Systems Using Linux	
COMP SCI 464	Artificial Intelligence	
+3 credits upper level COMP SCI, MATH, INFO SCI or COMM		
Total Credits		64

## Computer Science Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>12</b>
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>		<b>13</b>
COMP SCI 316	Advanced Software Design	
<b>Choose three upper-level Computer Science courses</b>		
Total Credits		25

## Democracy and Justice Studies

(Bachelor of Arts)

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. Along with substantive training in current and past social and political issues, students

learn skills such as digital and textual literacy, the ability to express arguments and ideas clearly in speech and writing, critical thinking, and cultural competence. This program thus offers wide-ranging educational challenges and provides students with broadly applicable learning experiences useful for many career paths in the public, private and non-profit sectors. Democracy and Justice Studies is encouraged and appropriate for individuals interested in graduate work in the social sciences and humanities, 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, non-profit work, 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, sociology, theology and women's and gender studies.

Majors select one or more areas 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.

**Criminal Justice** considers the development of the institutions, ideas and processes of the criminal justice system, including questions of freedom, social control, punishment and inequality.

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

**Legal Studies** examines law and legal systems past and present, 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 a major or minor in Democracy and Justice Studies may choose to combine their programs with another field of study. Among fields most relevant are, business, communication, economics, education, environmental policy and planning, 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. 143)
- Criminal Justice (p. 144)
- Legal Studies (p. 146)
- U.S. and the World (p. 147)
- Women's and Gender Studies (p. 149)
  
- Democracy and Justice Studies Minor (p. 150)

**Harvey J Kaye**; Professor; Ph.D., Louisiana State University

**Ekaterina M Levintova**; Professor; Ph.D., Western Michigan University

**Andrew W Austin**; Associate Professor; Ph.D., University of Tennessee, chair

**Eric J Morgan**; Associate Professor; Ph.D., University of Colorado at Boulder

**Kimberley A Reilly**; Associate Professor; Ph.D., University of Chicago

**Jon K Shelton**; Associate Professor; Ph.D., University of Maryland

**Alison K Staudinger**; Associate Professor; Ph.D., University of Maryland

# Democracy and Justice Studies Major

## Area of Emphasis

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

- American Studies (p. 143)
- Criminal Justice (p. 144)
- Legal Studies (p. 146)
- U.S. and the World (p. 147)
- Women's and Gender Studies (p. 149)

## American Studies Emphasis

## DEMOCRACY AND JUSTICE STUDIES Major

Code	Title	Credits
<b>Supporting Courses</b>		24-26
DJS 101	Introduction to Democracy and Justice Studies	
ENG COMP 105	English Composition II: Composition and Rhetoric <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 200	Mentoring for Equity and Inclusion	
DJS 204	Freedom and Social Control	
DJS 221	American Law in Historical Perspective	
DJS/WOST 241	Introduction to Women's & Gender Studies	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
PHILOS 102	Contemporary Ethical Issues	
PHILOS 103	Logic and Reasoning	
PHILOS 105	Is Morality for Sale?	
POL SCI 100	Global Politics and Society	
POL SCI 101	American Government and Politics	
SOCIOL 101	Introduction to Sociology	
WOST 201	Introduction to LGBTQ Studies	
<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>Subject D - Historical Research (6 credits)</b>		
HUM STUD 200	Introduction to Digital and Public Humanities	
HISTORY 290	The Craft of History	
<b>Upper-Level Courses</b>		24
DJS/POL SCI 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
<b>Elective Courses (choose 6 credits):</b>	
ART 376	Modern American Culture
DJS 303	Criminal Justice Process
DJS/ECON 307	History of Economic Thought
DJS/POL SCI 320	Constitutional Law
DJS 325	Law and Society
DJS/WOST 348	Gender and the Law
DJS/HISTORY 353	The U.S. and the World
DJS/HISTORY 365	U.S. Labor and the Working Class: Past and Present
DJS 400	Mentoring for Equity and Inclusion
DJS/WOST 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/WOST 370	History of Sexuality in the U.S.
HISTORY/WOST 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
POL SCI 312/UR RE ST 312	Community Politics
POL SCI 318	Political Behavior
POL SCI 340	Political Theory
POL SCI 370	Foreign and Defense Policies
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> This skills requirement may be fulfilled with 6 credits of alternative courses selected in consultation with your faculty adviser.
- <sup>3</sup> Please review with your faculty adviser about language requirement. Courses in French, German, Oneida, and Spanish are available at UW-Green Bay.

## Criminal Justice Emphasis

### DEMOCRACY AND JUSTICE STUDIES Major

Code	Title	Credits
<b>Supporting Courses</b>		24-26
DJS 101	Introduction to Democracy and Justice Studies	
DJS 204	Freedom and Social Control	
POL SCI 101	American Government and Politics	
ENG COMP 105	English Composition II: Composition and Rhetoric <sup>1</sup>	
<b>Choose two of the following courses:</b>		
ANTHRO 100	Varieties of World Culture	
DJS 200	Mentoring for Equity and Inclusion	
DJS 221	American Law in Historical Perspective	
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 105	Is Morality for Sale?
POL SCI 100	Global Politics and Society
PU EN AF 215	Introduction to Public Administration
SOCIOL 101	Introduction to Sociology
WOST 201	Introduction to LGBTQ Studies
<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>Subject D - Historical Research (6 credits):</b>	
HUM STUD 200	Introduction to Digital and Public Humanities
HISTORY 290	The Craft of History
<b>Upper-Level Courses</b>	<b>24</b>
DJS 303	Criminal Justice Process
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
SOCIOL 404	Criminology
<b>Choose 6 credits of the following elective courses:</b>	
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 362	Power and Change in America
DJS/HISTORY 365	U.S. Labor and the Working Class: Past and Present
DJS 400	Mentoring for Equity and Inclusion
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 340	Topics in African American History <sup>When covering crime and punishment (see DJS advisor)</sup>
HISTORY 370	History of Sexuality in the U.S.
HISTORY 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
HISTORY 422	Topics in Early Modern European History <sup>When covering crime and punishment (see DJS advisor)</sup>
PHILOS 326	Philosophy, Politics and Law
POL SCI 312	Community Politics
POL SCI 340	Political Theory
SOCIOL 303	Race and Ethnic Relations

SOCIOL 307	Social Theory	
SOCIOL 315	Street Gangs in America	
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 adviser about language requirement. Courses in French, German, Oneida, and Spanish are available at UW-Green Bay.

## Legal Studies Emphasis

### DEMOCRACY AND JUSTICE STUDIES Major

Code	Title	Credits
<b>Supporting Courses</b>		24-26
DJS 101	Introduction to Democracy and Justice Studies	
DJS 221	American Law in Historical Perspective	
ENG COMP 105	English Composition II: Composition and Rhetoric <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 200	Mentoring for Equity and Inclusion	
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	
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	Is Morality for Sale?	
POL SCI 100	Global Politics and Society	
SOCIOL 101	Introduction to Sociology	
WOST 201	Introduction to LGBTQ Studies	
<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>Subject D - Historical Research (6 Credits):</b>		
HUM STUD 200	Introduction to Digital and Public Humanities	
HISTORY 290	The Craft of History	
<b>Upper-Level Courses</b>		24
DJS 320	Constitutional Law	
DJS 325	Law and Society	
DJS/POL SCI 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	

**Choose 6 credits of the following elective courses:**

DJS 303	Criminal Justice Process
DJS/ECON 307	History of Economic Thought
DJS/WOST 348	Gender and the Law
DJS/HISTORY 353	The U.S. and the World
DJS 362	Power and Change in America
DJS/HISTORY 365	U.S. Labor and the Working Class: Past and Present
DJS 400	Mentoring for Equity and Inclusion
DJS 461	Social and Political Criticism
DJS/WOST 437	Feminist Theory
DJS 497	Internship
DJS 498	Independent Study
DJS 499	Travel Course
FNS 392	First Nations Justice and Tribal Governments
HISTORY 356	History of Modern Africa
HISTORY/WOST 370	History of Sexuality in the U.S.
HISTORY/WOST 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
PHILOS 326	Philosophy, Politics and Law
POL SCI 312/UR RE ST 312	Community Politics
POL SCI 318	Political Behavior
POL SCI 340	Political Theory
POL SCI 370	Foreign and Defense Policies
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 adviser about language requirement. Courses in French, German, Oneida, and Spanish are available at UW-Green Bay.

## U.S. and the World Emphasis

### DEMOCRACY AND JUSTICE STUDIES Major

Code	Title	Credits
<b>Supporting Courses</b>		24-26
DJS 101	Introduction to Democracy and Justice Studies	
ENG COMP 105	English Composition II: Composition and Rhetoric <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 200	Mentoring for Equity and Inclusion	
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	

HISTORY 205	American History to 1865
HISTORY 206	History of the United States from 1865 to the Present
PHILOS 105	Is Morality for Sale?
SOCIOL 101	Introduction to Sociology
WOST 201	Introduction to LGBTQ Studies
<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 or MATH 260	Social Science Statistics 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>Subject D - Historical Research (6 credits)</b>	
HUM STUD 200	Introduction to Digital and Public Humanities
HISTORY 290	The Craft of History
<b>Upper-Level Courses</b>	<b>24</b>
DJS/POL SCI 349	American Political Thought
DJS/HISTORY 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
POL SCI 370	Foreign and Defense Policies
<b>Elective Courses (choose 6 credits):</b>	
DJS 303	Criminal Justice Process
DJS/POL SCI 320	Constitutional Law
DJS 325	Law and Society
DJS/WOST 348	Gender and the Law
DJS 362	Power and Change in America
DJS/HISTORY 365	U.S. Labor and the Working Class: Past and Present
DJS 400	Mentoring for Equity and Inclusion
DJS/WOST 437	Feminist Theory
DJS 461	Social and Political Criticism
DJS 497	Internship
DJS 498	Independent Study
DJS 499	Travel Course
HISTORY 356	History of Modern Africa
HISTORY/WOST 370	History of Sexuality in the U.S.
HISTORY/WOST 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
POL SCI 318	Political Behavior
POL SCI 340	Political Theory
POL SCI 351	Comparative Politics
POL SCI 360	International Relations
SOCIOL 303	Race and Ethnic Relations
SOCIOL 307	Social Theory
UR RE ST 323	Asian American Communities in the United States
UR RE ST 324	Latino Communities in the United States

- <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 adviser about language requirement. Courses in French, German, Oneida, and Spanish are available at UW-Green Bay.

## Women's and Gender Studies Emphasis

### DEMOCRACY AND JUSTICE STUDIES Major

Code	Title	Credits
<b>Supporting Courses</b>		24-26
DJS 101	Introduction to Democracy and Justice Studies	
DJS/WOST 241	Introduction to Women's & Gender Studies	
ENG COMP 105	English Composition II: Composition and Rhetoric <sup>1</sup>	
<b>Choose one of the following options:</b>		
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	
<b>Choose two of the following courses:</b>		
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 200	Mentoring for Equity and Inclusion	
DJS 204	Freedom and Social Control	
DJS 221	American Law in Historical Perspective	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
POL SCI 100	Global Politics and Society	
SOCIOL 101	Introduction to Sociology	
WOST 201	Introduction to LGBTQ Studies	
<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>Subject D - Historical Research (6 credits)</b>		
HUM STUD 200	Introduction to Digital and Public Humanities	
HISTORY 290	The Craft of History	
<b>Upper-Level Courses</b>		24
DJS/WOST 348	Gender and the Law	
DJS/POL SCI 349	American Political Thought	
DJS 361	Historical Perspectives on American Democracy	
DJS 363	Topics in Democracy and Justice	
DJS 437	Feminist Theory	
DJS 470	Senior Seminar in Democracy and Justice Studies	
<b>Elective Courses (choose 6 credits):</b>		
ART 376	Modern American Culture	
ART 379	Women, Art and Image	
DJS 303	Criminal Justice Process	
DJS/ECON 307	History of Economic Thought	

DJS/POL SCI 320	Constitutional Law
DJS 325	Law and Society
DJS/HISTORY 353	The U.S. and the World
DJS 362	Power and Change in America
DJS/HISTORY 365	U.S. Labor and the Working Class: Past and Present
DJS 400	Mentoring for Equity and Inclusion
DJS 461	Social and Political Criticism
DJS 497	Internship
DJS 498	Independent Study
DJS 499	Travel Course
FNS/WOST 360	Women and Gender in First Nations Communities
FNS 392	First Nations Justice and Tribal Governments
HISTORY/WOST 370	History of Sexuality in the U.S.
HISTORY/WOST 380	U.S. Women's History
HISTORY 402	America in the Twentieth Century
POL SCI 312/UR RE ST 312	Community Politics
POL SCI 340	Political Theory
POL SCI 351	Comparative Politics
POL SCI 360	International Relations
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, Oneida, and Spanish are available at UW-Green Bay.

## Democracy and Justice Studies Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
DJS 101	Introduction to Democracy and Justice Studies	
<b>Choose one of the following courses:</b>		
ANTHRO 100	Varieties of World Culture	
DJS 200	Mentoring for Equity and Inclusion	
DJS 204	Freedom and Social Control	
DJS 221	American Law in Historical Perspective	
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 101	Introduction to Sociology	
WOST 201	Introduction to LGBTQ Studies	
<b>Upper-Level Courses</b>		<b>12</b>
DJS 349	American Political Thought	
DJS 361	Historical Perspectives on American Democracy	
DJS 363	Topics in Democracy and Justice	

## Design Arts

(Bachelor of Arts)

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. 153)
- Design Arts Minor (p. 153)

The following is a curriculum guide for a four-year Design degree program with an optional Communications Minor and is subject to change without notice. Students should consult a Design program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Design Arts Major Curriculum Guide (p. 151)

**Toni L Damkoehler**; Professor; M.F.A., University of Wisconsin - Madison

**Berel Lutsky**; Professor; M.F.A., University of Wisconsin-Madison

**Jeffrey A Benzow**; Associate Professor; M.F.A., University of Wisconsin - Milwaukee, chair

**Addie M Sorbo**; Senior Lecturer; B.A., University of Wisconsin - Green Bay

## Design Arts Curriculum Guide

An example: Four year plan for **Design Arts Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ART 105	Introductory Drawing	3
ART 107	Two-Dimensional Design	3
ENG COMP 105	English Composition II: Composition and Rhetoric	3
First Year Seminar		3
General Ed		3
		Credits
		15
<b>Spring</b>		
ART 106	Three Dimensional Design	3

ART 210 or ART 243 or ART 270	Introduction to Painting or Introduction to Photography or Introduction to Printmaking	3
DESIGN 131	Introduction to Design and Culture	3
HUM STUD 160	Introduction to Language	3
General Ed		3
	Credits	15
<b>Sophomore</b>		
<b>Fall</b>		
DESIGN 3XX/4XX Core I		3
History/Theory (requirement)		3
General Ed		3
General Ed		3
General Ed		3
	Credits	15
<b>Spring</b>		
DESIGN 3XX/4XX Core II		3
Design Arts Upper Level Elective		3
Design Arts Upper Level Elective		3
General Ed		3
General Ed		3
	Credits	15
<b>Junior</b>		
<b>Fall</b>		
DESIGN 3XX/4XX Core III		3
History/Theory Requirement		3
Design Arts Upper Level Elective (requirement)		3
General Ed		3
General Ed		3
	Credits	15
<b>Spring</b>		
Design Arts Upper Level Elective (requirement)		3
History/Theory Requirement		3
General Ed		3
Elective		3
Elective		3
	Credits	15
<b>Senior</b>		
<b>Fall</b>		
Design Arts Applied Course		3
Design Arts/Applied Elective		3
Design Arts/Applied Elective		3
Design Arts/Applied Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
Design Arts/Applied Elective		3
Design Arts/Applied Elective		3
Design Arts/Applied Elective		3
Elective		3
Elective		3
	Credits	15
	Total Credits	120



## Design Arts Major

Code	Title	Credits
<b>Supporting Courses:</b>		<b>21</b>
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
DESIGN 131	Introduction to Design and Culture	
DESIGN 231	Graphic Design Studio I	
ENG COMP 105	English Composition II: Composition and Rhetoric	
ART 210	Introduction to Painting	
or ART 243	Introduction to Photography	
or ART 270	Introduction to Printmaking	
<b>History and Theory (choose 9 credits)</b>		<b>9</b>
<b>Art History</b>		
ART 202	Modern Art	
ART 376	Modern American Culture	
ART 380	History of Photography	
<b>Theory</b>		
UR RE ST 100	Introduction to Urban Studies	
COMM 133	Fundamentals of Public Address	
COMM 205	Elements of Media	
COMP SCI 201	Introduction to Computing & Internet Technologies	
<b>UL Design Studio (choose 15 credits)</b>		<b>15</b>
DESIGN 332	Graphic Design Studio II	
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	
<b>Electives (choose 6 credits)</b>		<b>6</b>
any 300-level Art or Design course		
any 400-level Art or Design course		
DESIGN 497	Internship	
ENGLISH 324	Sheepshead Review Practicum	
Total Credits		<b>51</b>

## Design Arts Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ART 107	Two-Dimensional Design	
DESIGN 131	Introduction to Design and Culture	
DESIGN 231	Graphic Design Studio I	
<b>Upper Level Courses</b>		<b>15</b>
<b>Choose 15 credits</b>		
DESIGN 332	Graphic Design Studio II	
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 497	Internship

Total Credits

24

## Economics

(Bachelor of Science)

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.

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 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.

- Economics Major (p. 156)
- Economics Minor (p. 156)

The following is only an example of a four-year Economics degree program and is subject to change without notice. Students should consult a Economics program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Economics Curriculum Guide (p. 154)

**John R Stoll**; Professor; Ph.D., University of Kentucky\*

**Thomas S Nessler**; Associate Professor; Ph.D., University of Washington - Seattle, chair

## Economics Curriculum Guide

An example: Four year plan for **Economics Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ECON 202	Macro Economic Analysis	3
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		3
Credits		15

<b>Spring</b>		
ECON 203	Micro Economic Analysis	3
MATH 202	Calculus and Analytic Geometry I	4
General Ed		3
General Ed		3
General Ed		3
		<hr/>
		Credits 16
<b>Sophomore</b>		
<b>Fall</b>		
BUS ADM 216 or COMM SCI 205 or MATH 260	Business Statistics or Social Science Statistics or Introductory Statistics	4
ECON 302	Intermediate Macro Economic Theory	3
General Ed		3
General Ed		3
Elective		3
		<hr/>
		Credits 16
<b>Spring</b>		
ECON 303	Intermediate Micro Economic Theory	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
		<hr/>
		Credits 15
<b>Junior</b>		
<b>Fall</b>		
ECON 307	History of Economic Thought	3
ECON/BUS ADM 3XX/4XX Elective		3
Elective		3
Elective		3
Elective		3
		<hr/>
		Credits 15
<b>Spring</b>		
ECON 310	Introduction to Econometrics	3
ECON/BUS ADM 3XX/4XX Elective		3
Elective		3
Elective		3
Elective		3
		<hr/>
		Credits 15
<b>Senior</b>		
<b>Fall</b>		
ECON/BUS ADM 3XX/4XX Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
		<hr/>
		Credits 15
<b>Spring</b>		
ECON/BUS ADM 3XX/4XX Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
		<hr/>
		Credits 15
		<hr/>
		Total Credits 122

## Economics Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>14</b>
ECON 102	Economics of the Modern World	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
<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 courses:</b>		
ECON 210	Quantitative Methods for Economists	
MATH 202	Calculus and Analytic Geometry I	
<b>Upper-Level Courses</b>		<b>28</b>
ECON 302	Intermediate Macro Economic Theory	
ECON 303	Intermediate Micro Economic Theory	
ECON 310	Introduction to Econometrics	
ECON 403	International Economics	
ECON 485	Managerial Economics	
Choose one Course		
ECON 330	Money and Banking	
FIN 347	Financial Markets and Institutions	
<b>Choose three elective courses</b>		
BUS ADM 442	Principles of Investment	
ECON 304	Contemporary Labor Markets	
ECON 305	Natural Resources Economic Policy	
ECON 309	Urban and Regional Economics	
ECON 307	History of Economic Thought	
ECON 340	Economics of Land Use	
ECON 342	Community Economic Development	
ECON 371	Gender and Economic Justice	
ECON 402	Environmental and Resource Economics	
ECON 409	Public Finance and Fiscal Policy	
ECON 453	Cost Benefit Analysis	
FIN 445	International Financial Management	
FIN 446	Advanced Corporation Finance	
FIN 447	Derivatives	
FIN 450	Bank Administration	
Total Credits		42

## Economics Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9-10</b>
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
<b>Choose one of the following courses:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
ECON 210	Quantitative Methods for Economists	
MATH 260	Introductory Statistics	

**Upper-Level Courses**

12

ECON 302	Intermediate Macro Economic Theory
or ECON 303	Intermediate Micro Economic Theory

**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

(Bachelor of Science)

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 or on the program website (<http://www.uwgb.edu/education>).

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. Demonstrate communication competencies in Reading, Writing and Math through a variety of testing options and/or coursework. A complete list of accepted options can be found on the Application Process and Requirements section of the website (<http://www.uwgb.edu/education/admissions/application-process-and-requirements>).
4. Complete EDUC 208 with a grade of "C" or better. The completion of EDUC 206 with a grade of "C" or better is strongly recommended at the time of application.
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.

### **Undergraduate - Graduate Accelerated Program Track**

Following full admission to the education program, undergraduate students may apply to participate in an Undergraduate-Graduate Accelerated track.

Students meeting the requirements may request to enroll in coursework at the graduate level that will directly apply to their undergraduate degree and teaching license. Following graduation, students can request admission to the Master of Applied Leadership in Teaching and Learning graduate program and apply up to 9 previously earned graduate credits to this program of study. Once accepted to the graduate program, students adhere to all graduate student expectations and pay full graduate tuition rates.

Requirements for participation include:

- Full admission to the Professional Program in Education
- Junior standing at the completion of semester 1 in the Professional Program in Education
- Cumulative GPA of 3.25
- Education Faculty recommendation

A committee consisting of graduate faculty will review student applications for acceptance before enrollment at the graduate level may occur.

Applications must be submitted by October 1 or March 1 for participation in the following semester.

### **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/>.

## **Area of Emphasis**

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

- General (p. 160)
- Accelerated (p. 160)

- Education Minor (p. 161)

**Scott A Ashmann**; Professor; Ph.D., Michigan State University\*

**Pao Lor**; Professor; PH.D., University of Wisconsin - Madison\*

**Christin A DePouw**; Associate Professor; Ph.D., University of Illinois at Urbana-Champaign

**Timothy U Kaufman**; Associate Professor; Ph.D., Loyola University of Chicago\*

**Mark T Kiehn**; Associate Professor; Ph.D., University of Colorado - Boulder\*

**Mary Gichobi**; Assistant Professor; Ph.D., Iowa State University

**Arthur P Lacey**; Senior Lecturer; B.S., University of Wisconsin - Green Bay

**Karen Eckhardt**; Lecturer; Master of Education, Cardinal Stritch University

## Education Major

### Area of Emphasis

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

- General (p. 160)
- Accelerated (p. 160)

## General Emphasis

### EDUCATION Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>22</b>
EDUC 203	Environmental Education in K-12 Schools	
EDUC 206	Cultural Images in Materials for Children and Adolescents	
EDUC 208	Concepts, Issues, and Field Experience in Education	
EDUC 280	Instructional Technologies: Evaluation, Production and Application	
EDUC 290	Introduction to Educational Inquiry	
EDUC 281	Conceptual Foundations of Elementary Mathematics I	
EDUC 282	Conceptual Foundations of Elementary Mathematics II	
<b>Upper-Level Courses</b>		<b>27</b>
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		<b>49</b>

## Accelerated Emphasis

### EDUCATION Major

Following full admission to the education program, undergraduate students may apply to participate in an Undergraduate-Graduate Accelerated track.

Students meeting the requirements may request to enroll in coursework at the graduate level that will directly apply to their undergraduate degree and teaching license. Following graduation, students can request admission to the Master of Applied Leadership in Teaching and Learning graduate



program and apply up to 9 previously earned graduate credits to this program of study. Once accepted to the graduate program, students adhere to all graduate student expectations and pay full graduate tuition rates.

Requirements for participation include:

1. Full admission to the Professional Program in Education
2. Junior standing at the completion of semester 1 in the Professional Program in Education
3. Cumulative GPA of 3.25
4. Education Faculty recommendation
5. A committee consisting of graduate faculty will review student applications for acceptance before enrollment at the graduate level may occur.

Applications must be submitted by October 1 or March 1 for participation in the following semester.

Code	Title	Credits
<b>Supporting Courses</b>		<b>22</b>
EDUC 203	Environmental Education in K-12 Schools	
EDUC 206	Cultural Images in Materials for Children and Adolescents	
EDUC 208	Concepts, Issues, and Field Experience in Education	
EDUC 280	Instructional Technologies: Evaluation, Production and Application	
EDUC 290	Introduction to Educational Inquiry	
EDUC 281	Conceptual Foundations of Elementary Mathematics I	
EDUC 282	Conceptual Foundations of Elementary Mathematics II	
<b>Upper-Level Courses</b>		<b>27</b>
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 421/621	Literacy and Language Development in Young Children <sup>1</sup>	
Total Credits		49

<sup>1</sup> Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the Education office or refer to the graduate catalog (<http://catalog.uwgb.edu/graduate/general-information/academic-rules-regulations/course-policy/#Undergraduates%20seeking%20enrollment%20in%20integrated%20programs>).

## Education Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>17</b>
EDUC 206	Cultural Images in Materials for Children and Adolescents	
EDUC 208	Concepts, Issues, and Field Experience in Education	
EDUC 280	Instructional Technologies: Evaluation, Production and Application	
EDUC 290	Introduction to Educational Inquiry	
<b>Choose one course:</b> <sup>1</sup>		
COMM SCI 205	Social Science Statistics	
MATH 100	Math Appreciation	
MATH 101	Advanced Algebra	
<b>Upper-Level Courses</b>		<b>15</b>
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 <sup>2</sup>	

or EDUC 334	Teaching General Music in the Elementary and Middle Schools
<b>Choose one of the following courses as appropriate:</b>	
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.

<sup>2</sup> Music majors with an Education minor will choose EDUC 334

Students planning to pursue a teaching license should contact the Education Program office, (920) 465-2137, for the licensure requirements.

## Engineering

(Bachelor of Science)

The UW System Board of Regents has approved the creation of a Bachelor of Science Mechanical Engineering degree program at UW-Green Bay. The degree will be housed within the newly formed Richard J. Resch School of Engineering.

- Mechanical Engineering (<http://catalog.uwgb.edu/undergraduate/programs/engineering/mechanicalmajor>)

**John F Katers**; Professor; Ph.D., Marquette University\*

**Patricia A Terry**; Professor; Ph.D., University of Colorado, chair\*

**Riaz Ahmed**; Assistant Professor; Ph.D., University of South Carolina

**Michael Holly**; Assistant Professor; Ph.D., University of Wisconsin-Madison

**Maruf Hossain**; Assistant Professor; Ph.D., University of Memphis

**Mohammad Mahfuz**; Assistant Professor; Ph.D., University of Ottawa

**Jagadeep Thota**; Assistant Professor; Ph.D., University of Nevada - Las Vegas

## Mechanical Engineering Major

Code	Title	Credits
<b>Supporting Courses</b>		30
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
MATH 209	Multivariate Calculus	
MATH 305	Ordinary Differential Equations	
ET 206	Chemistry for Engineers	
ET 207	Parametric Modeling	
PHYSICS 201	Principles of Physics I	
PHYSICS 202	Principles of Physics II	
<b>Fundamentals Courses:</b>		24
ET 116	Basic Manufacturing Processes	
ENGR 198	First Year Seminar	
ENGR 204	Programming for Engineers	
ENGR 213	Mechanics I	
ENGR 214	Mechanics II	

ENGR 208	Fundamentals of Electric Circuits	
ENGR 220	Mechanics of Materials	
ENGR 221	Mechanics of Materials Lab	
ET 221	Machine Components	
<b>Advanced Courses:</b>		<b>31</b>
ENGR 301	Engineering Materials	
ENGR 312	Engineering Measurements	
ENGR 322	Engineering Measurements Lab	
ENGR 324	Engineering Thermodynamics	
ENGR 326	Numerical Methods	
ENGR 336	Fluids	
ENGR 337	Fluids Lab	
ENGR 340	Analysis of Dynamic Systems	
ENGR 430	Heat Transfer	
ENGR 431	Thermal Lab	
ENGR 460	Senior Design	
ET 308	Finite Element Analysis	
ET 360	Project Management	
<b>Elective: (choose one course)</b>		<b>3-4</b>
ENGR 432	Automatic Controls	
ET 322	Design Problems	
ET 390	Mechatronics	
Total Credits		88-89

## Engineering Technology

(Bachelor of Science)

### 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/engineer-tech/electrical-engineering-technology/degree-description-electrical-engineering>)

### 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/engineer-tech/environmental-engineering-technology/degree-description-environmental-engineering>)

### 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/engineer-tech/mechanical-engineering-technology/degree-description-mechanical-engineering>)

- Electrical Engineering Technology (p. 169)
- Environmental Engineering Technology (p. 169)
- Mechanical Engineering Technology (p. 170)

- Electrical Engineering Technology (p. 164)
- Environmental Engineering Technology (p. 166)
- Mechanical Engineering Technology (p. 167)

**John F Katers**; Professor; Ph.D., Marquette University\*

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**Maruf Hossain**; Assistant Professor; Ph.D., University of Memphis

**Mohammad Mahfuz**; Assistant Professor; Ph.D., University of Ottawa

**Jagadeep Thota**; Assistant Professor; Ph.D., University of Nevada - Las Vegas

## Engineering Technology Curriculum Guides

- Electrical Engineering Technology (p. 164)
- Environmental Engineering Technology (p. 166)
- Mechanical Engineering Technology (p. 167)

### Curriculum Guide: Electrical Engineering Technology

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ET 101	Fundamentals of Engineering Technology	2
ET 105	Fundamentals of Drawing	3
ET 130	Basic Electrical Circuits I	3
MATH 202	Calculus and Analytic Geometry I	4
First Year Seminar		3
		<b>Credits</b>
		<b>15</b>
<b>Spring</b>		
ET 131	Basic Electrical Circuits II	3
ET 150	Codes, Safety, and Standards	2
MATH 203	Calculus and Analytic Geometry II	4
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ET 142	Introduction to Programming	3
ET 232	Semiconductor Devices	3
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	5
General Ed		3
		<b>Credits</b>
		<b>14</b>

<b>Spring</b>		
ET 233	Linear Circuits	3
ET 240	Micro-controllers and Programmable Logic Controllers	3
ET 311	Digital Electronics	3
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II or Principles of Physics II	5
		<b>Credits</b>
		<b>14</b>
<b>Junior</b>		
<b>Fall</b>		
ET 250	Signals and Systems	3
ET 340	Advanced Programmable Logic Controllers	3
ET 342	Supervisory Control and Data Acquisition	3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Spring</b>		
ET 324	Motors and Drives	3
ET 344	Industrial Electronics and Control	3
ET 346	Electrical Power Systems	3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ET 360	Project Management	3
ET 390	Mechatronics	4
Elective		3
Elective		3
Elective		3
		<b>Credits</b>
		<b>16</b>
<b>Spring</b>		
ET 348	Electromagnetic Fields and Applications	3
ET 350	Data Communication and Protocols	3
ET 400 or ET 410	Co-op/Internship in Engineering Technology or Capstone Project	3
Elective		4
General Ed		3
		<b>Credits</b>
		<b>16</b>
		<b>Total Credits</b>
		<b>120</b>

**120 credits required to earn degree**

General Education categories \*requirement is met with a specific required course:

- First Year Seminar-3 credits
- Biological Science-3 credits
- Fine Arts-3 credits
- Global Culture-3 credits
- Humanities-6 credits
- Natural Sciences-3 credits\*
- Social Sciences-6 credits
- Sustainability Perspective-3 credits
- Quantitative Literacy-3 credits\*
- Capstone-3 credits\*

# Curriculum Guide: Environmental Engineering Technology

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ET 101	Fundamentals of Engineering Technology	2
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
CHEM 207	Laboratory Safety	1
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
MATH 202	Calculus and Analytic Geometry I	4
	Credits	16
<b>Spring</b>		
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
MATH 203	Calculus and Analytic Geometry II	4
First Year Seminar		3
General Ed		3
	Credits	15
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 322	Environmental Microbiology	4
ET 103	Surveying	3
ET 105	Fundamentals of Drawing	3
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	5
	Credits	15
<b>Spring</b>		
ET 201	Introduction to Environmental Engineering	3
ET 203	Introduction to Water and Waste Water	3
GEOSCI 202	Physical Geology	4
MATH 260	Introductory Statistics	4
General Ed		3
	Credits	17
<b>Junior</b>		
<b>Fall</b>		
ET 118	Fluids I	3
ET 330	Hydrology	3
ET 391	GIS	3
General Ed		3
General Ed		3
	Credits	15
<b>Spring</b>		
ET 320	The Soil Environment	4
General Ed		3
General Ed		3
UL Advanced Study ET elective		3

UL Advanced Study ET elective		3
	Credits	16
<b>Senior</b>		
<b>Fall</b>		
ET 360	Project Management	3
Elective		5
General Ed		3
UL Advanced Study ET elective		3
	Credits	14
<b>Spring</b>		
ET 400 or ET 410	Co-op/Internship in Engineering Technology or Capstone Project	3
Elective		3
UL Advanced Study ET elective		3
UL Advanced Study ET elective		3
	Credits	12
	Total Credits	120

**120 credits required to earn degree**

General Education categories \*requirement is met with a specific required course:

- First Year Seminar-3 credits
- Biological Science-3 credits\*
- Fine Arts-3 credits
- Global Culture-3 credits
- Humanities-6 credits
- Natural Sciences-3 credits\*
- Social Sciences-6 credits
- Sustainability Perspective-3 credits
- Quantitative Literacy-3 credits\*
- Capstone-3 credits\*

## Curriculum Guide: Mechanical Engineering Technology

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ET 101	Fundamentals of Engineering Technology	2
ET 105	Fundamentals of Drawing	3
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory (Natural Science)	5
MATH 202	Calculus and Analytic Geometry I (Quantitative Literacy)	4
First Year Seminar		3
	Credits	17
<b>Spring</b>		
ET 130	Basic Electrical Circuits I	3
ET 142	Introduction to Programming	3
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 203	Calculus and Analytic Geometry II	4
General Education requirement		3
	Credits	18
<b>Sophomore</b>		
<b>Fall</b>		
ENGR 213	Mechanics I	3

ET 116	Basic Manufacturing Processes	3
MATH 260	Introductory Statistics	4
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	5
Credits		15
<b>Spring</b>		
ENGR 214	Mechanics II	3
ENGR 220	Mechanics of Materials	3
ET 207	Parametric Modeling	3
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II or Principles of Physics II	5
General Education requirement		3
Credits		17
<b>Junior</b>		
<b>Fall</b>		
ET 118	Fluids I	3
ET 221	Machine Components	3
ET 308	Finite Element Analysis	3
General Education requirement		3
General Education requirement		3
Credits		15
<b>Spring</b>		
ET 318	Fluids II	2
ET 322	Design Problems	3
ET 324	Motors and Drives	3
General Education requirement		3
Credits		11
<b>Senior</b>		
<b>Fall</b>		
CHEM 320	Thermodynamics and Kinetics	3
ET 360	Project Management	3
ET 390	Mechatronics	4
Elective		1
General Education requirement		3
Credits		14
<b>Spring</b>		
ET 400 or ET 410	Co-op/Internship in Engineering Technology (Capstone) or Capstone Project	3
ENGR 301	Engineering Materials	2
Elective		3
General Education requirement		3
Credits		11
Total Credits		118

**120 credits required to earn degree**

General Education categories \*requirement is met with a specific required course:

- First Year Seminar-3 credits
- Biological Science-3 credits
- Fine Arts-3 credits
- Global Culture-3 credits
- Humanities-6 credits
- Natural Sciences-3 credits\*
- Social Sciences-6 credits
- Sustainability Perspective-3 credits
- Quantitative Literacy-3 credits\*



Capstone-3 credits\*

## Electrical Engineering Technology Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>20</b>
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	
<b>Fundamentals Group Courses</b>		<b>29</b>
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 232	Semiconductor Devices	
ET 233	Linear Circuits	
ET 240	Micro-controllers and Programmable Logic Controllers	
ET 250	Signals and Systems	
<b>Advanced Study Group Courses:</b>		<b>31</b>
ET 311	Digital Electronics	
ET 324	Motors and Drives	
ET 340	Advanced Programmable Logic Controllers	
ET 342	Supervisory Control and Data Acquisition	
ET 344	Industrial Electronics and Control	
ET 346	Electrical Power Systems	
ET 348	Electromagnetic Fields and Applications	
ET 350	Data Communication and Protocols	
ET 360	Project Management	
MATH 320	Linear Algebra and Matrix Theory	
<b>Choose one of these:</b>		
ET 400 or ET 410	Co-op/Internship in Engineering Technology Capstone Project	
Total Credits		<b>80</b>

## Environmental Engineering Technology Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>39</b>
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>		<b>28</b>
BIOLOGY 322	Environmental Microbiology	
CHEM 207	Laboratory Safety	
ET 118	Fluids I	
ET 201	Introduction to Environmental Engineering	
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>		<b>20</b>
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	
<b>Choose a minimum of one course from the following course list</b>		
ET/ENV SCI 464	Atmospheric Pollution and Abatement	
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	
ET/WATER 444	Geochemistry of Natural Waters	
PU EN AF 378	Environmental Law	
<b>Final Project:</b>		
ET 400 or ET 410	Co-op/Internship in Engineering Technology Capstone Project	

## Mechanical Engineering Technology Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>37-42</b>
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	Fundamentals of Physics II	

or PHYSICS 202	Principles of Physics II	
<b>Fundamentals Group Courses</b>		<b>26</b>
ENGR 213	Mechanics I	
ENGR 214	Mechanics II	
ET 105	Fundamentals of Drawing	
ET 116	Basic Manufacturing Processes	
ET 118	Fluids I	
ET 142	Introduction to Programming	
ET 207	Parametric Modeling	
ET 220	Mechanics of Materials	
ET 221	Machine Components	
<b>Advanced Study Group Courses</b>		<b>28</b>
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	
<b>Final Project:</b>		
ET 400	Co-op/Internship in Engineering Technology	
or ET 410	Capstone Project	
Total Credits		91-96

## English

(Bachelor of Arts)

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 often select minors in 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.

### Area of Emphasis

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

- Creative Writing (p. 173)
- English Education (p. 174)
- Literature (p. 175)
- English Minor (p. 177)

The following is only an example of a four-year English degree program and is subject to change without notice. Students should consult a English program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

English Major with a Literature Emphasis; Minor in Humanistic Studies (p. 172)

**Paul Emmett**; Professor; Ph.D., University of Chicago

**Jennifer Flatt**; Professor; Ph.D., Loyola University

**Rebecca A Meacham**; Professor; Ph.D., University of Cincinnati

**Charles A Rybak**; Professor; Ph.D., University of Cincinnati, chair

**Stefan T Hall**; Associate Professor; Ph.D., Saint Louis University

**Ann Mattis**; Associate Professor; Ph.D., Loyola University

**Valerie Murrenus-Pilmaier**; Associate Professor; Ph.D., Marquette University

**Rebecca L Nesvet**; Associate Professor; Ph.D., University of North Carolina - Chapel Hill

**Jessica VanSlooten**; Associate Professor; Ph.D., Auburn University

**Jennifer Young**; Assistant Professor; Ph.D., Case Western Reserve University

## English Curriculum Guide

An example: Four year plan for **English Major with a Literature Emphasis; Minor in Humanities**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	3
HUM STUD 201	Introduction to the Humanities	3
First Year Seminar		3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Spring</b>		
ENGLISH 219	World Literatures II	3
HUM STUD 101	Foundations of Western Culture I	3
General Ed		3
General Ed		3
Elective		3
		<b>Credits</b>
		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENGLISH 214	Introduction to English Literature I	3
ENGLISH 290	Literary Studies	3
General Ed		3
General Ed		3
Elective		3
		<b>Credits</b>
		<b>15</b>
<b>Spring</b>		
ENGLISH 215	Introduction to English Literature II	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
		<b>Credits</b>
		<b>15</b>

<b>Junior</b>		
<b>Fall</b>		
ENGLISH 216 or ENGLISH 217	Introduction to American Literature I or Introduction to American Literature II	3
ENGLISH 3XX elective		3
Perspectives Classical course		3
General Ed		3
General Ed		3
		Credits 15
<b>Spring</b>		
ENGLISH 331	Major American Prose Fiction	3
Perspectives Medieval course		3
General Ed		3
General Ed		3
Elective		3
		Credits 15
<b>Senior</b>		
<b>Fall</b>		
ENGLISH 431	Shakespeare	3
ENGLISH 3XX elective		3
ENGLISH 3XX elective		3
HUM STUD 3XX elective		3
Elective		3
		Credits 15
<b>Spring</b>		
ENGLISH 340	History of the English Language	3
HUM STUD 480	Humanities Seminar	3
ENGLISH 3XX elective		3
Elective		3
Elective		3
		Credits 15
		Total Credits 120

## English Major

### Area of Emphasis

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

- Creative Writing (p. 173)
- English Education (p. 174)
- Literature (p. 175)

## Creative Writing Emphasis

### ENGLISH Major

Code	Title	Credits
<b>Supporting Courses</b>		9-12
ENG COMP 105	English Composition II: Composition and Rhetoric <sup>1</sup>	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 290	Literary Studies	
<b>Choose 1 additional Lower-Level Literature Course:</b>		
ENGLISH 104	Introduction to Literature	
ENGLISH 206	Women in Literature	
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
ENGLISH 219	World Literatures II
<b>Upper-Level Courses</b>	<b>24</b>
<b>Required:</b>	
ENGLISH 301	Intermediate Creative Writing
ENGLISH 324	Sheepshead Review Practicum
<b>Upper-Level Writing Workshops (choose 2 courses)</b>	
ENGLISH 302	Short Fiction Writing Workshop
ENGLISH 303	Advanced Poetry Writing Workshop
ENGLISH 304	Creative Nonfiction Writing
ENGLISH 305	Novel Writing Workshop
ENGLISH 306	Novel Revision Workshop
ENGLISH 312	Topics in Creative Writing
<b>Upper-level Literature courses (choose 4 courses):<sup>2</sup></b>	
ENGLISH 315	The British Novel
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 431	Shakespeare
ENGLISH 436	Major Author(s)
Total Credits	33-36

<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

### ENGLISH Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
ENG COMP 105 or ENGLISH 212	English Composition II: Composition and Rhetoric <sup>1</sup> Introduction to Creative Writing	
ENGLISH 214	Introduction to English Literature I	
ENGLISH 215 or ENGLISH 316	Introduction to English Literature II 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	
<b>Upper-Level Courses</b>		<b>24</b>
EDUC 319	Adolescent Literature in Middle and Secondary School Reading	

ENGLISH 336 or ENGLISH 344	American Ethnic Literature African American Literature
ENGLISH 431	Shakespeare
HUM STUD 321	Sociolinguistics
<b>Choose a minimum of 3 credits of the following courses:</b> <sup>2</sup>	
ENGLISH 218	World Literatures
ENGLISH 219	World Literatures II
ENGLISH 338	World Literatures
<b>Choose a minimum of 9 credits of upper-level Literature elective courses:</b> <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 British Novel
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

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

<sup>2</sup> 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.

<sup>3</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.

## Literature Emphasis

### ENGLISH Major

Code	Title	Credits
<b>Supporting Courses</b>		12
ENG COMP 105	English Composition II: Composition and Rhetoric <sup>1</sup>	
ENGLISH 290	Literary Studies	
<b>Choose a minimum of 6 credits from the following supporting-level English electives:</b>		
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	
ENGLISH 219	World Literatures II	
ENGLISH 224	Practicum in Literary Publishing	
<b>Upper-Level Courses</b>		24
ENGLISH 431	Shakespeare	

**Choose a minimum of 21 credits from the following upper-level English electives:<sup>2</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 British Novel
ENGLISH 320	Major Drama
ENGLISH 322	Major Poetry
ENGLISH 323	Topics in Literary Criticism
ENGLISH 324	Sheepshead Review Practicum
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> 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**

Code	Title	Credits
<b>Choose a minimum of 3 credits (either upper level or supporting level) from any primarily pre-1800 British literature course besides Shakespeare, such as:</b>		
ENGLISH 214	Introduction to English Literature I	
ENGLISH 315	The British Novel	
ENGLISH 320	Major Drama	
ENGLISH 335	Literary Eras	

**Criterion 2**

Code	Title	Credits
<b>Choose a minimum of 3 credits (either upper level or supporting level) from any primarily post-1800 British literature course, such as:</b>		
ENGLISH 215	Introduction to English Literature II	
ENGLISH 335	Literary Eras	
ENGLISH 436	Major Author(s)	

**Criterion 3**

Code	Title	Credits
<b>Choose a minimum of 6 credits (either upper level or supporting level) from any American literature course, such as:</b>		
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

Code	Title	Credits
<b>Choose a minimum of 3 credits on the Study of Language, such as:</b>		
ENGLISH 340	History of the English Language	
HUM STUD 321	Sociolinguistics	
Minimum of six credits of college-level, non-English language courses		

## Criterion 5

Code	Title	Credits
<b>Choose a minimum of 3 credits (either upper level or supporting level) from any world literature course, such as:</b>		
ENGLISH 218	World Literatures	
ENGLISH 219	World Literatures II	
ENGLISH 338	World Literatures	

## English Minor

Code	Title	Credits
<b>Supporting Courses</b>		12
ENG COMP 105	English Composition II: Composition and Rhetoric <sup>1</sup>	
ENGLISH 214	Introduction to English Literature I	
ENGLISH 290	Literary Studies	
<b>Choose one of the following:</b>		
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>		12
ENGLISH 431	Shakespeare	
<b>Choose 9 additional upper-level credits. See list in English major.</b>		
Total Credits		24

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

## Environmental Policy and Planning

(Bachelor of Science)

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, environmental design, 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, community 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 emphases. Students may serve as interns in planning agencies in local governments, work in teams with a professor to conduct community planning and design, work with environmental organizations, or develop programs for sustainable communities. The three program emphases from which majors can choose are public policy, environmental planning (managing resources in the natural environment), and environmental design (creating the built environment).

The major in Environmental Policy and Planning consists of two sets of requirements: 1) required supporting and analytical courses and 2) upper-level courses within an area of emphasis. Students should discuss these Emphases with their program advisor 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 **environmental planning emphasis** focuses on sustainable and resilient land use and planning methods for human settlements and our surrounding environments in an era of climate change and resource scarcity. This emphasis teaches you skills in management of land and natural resources, techniques in geographic information systems, and how to adapt to the accelerating human influences on our environment. Students interested in learning skills in designing and planning community redevelopment; protection and management of farmland, forests, air, waters, flora and fauna at the community and regional levels; and developing comprehensive environmental impact studies may want to select this emphasis. It helps prepare students for careers and graduate work in environmental planning, community and regional planning, community-based environmental management, geography, and related fields.

The **regional planning and environmental design emphasis** focuses on creative problem-solving techniques in defining, analyzing, and solving problems in the built environment at human scale. Emphasizes basic graphic and verbal presentation techniques and relationships between form, the natural environment, people and function. Students interested in developing skills in the planning and urban design at the community and regional levels may want to select this emphasis. It helps prepare students for careers and graduate work in architecture, environmental planning, urban and regional planning, and community-based non-profit organizations that work in community development, 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 design, 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 Studies, Democracy and Justice Studies, or a number of other programs.

#### Considering a Double Major or Certificate?

Some students may want to consider a double major, combining Environmental Policy and Planning with Public Administration. Other popular second majors include Political Science, Urban Studies, 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 fits well with a major or minor in Environmental Policy and Planning. Likewise, students interested in working in a non-governmental or non-profit organization might explore the certificate in Nonprofit Management. 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:

- Environmental Design Emphasis (p. 183)
- Environmental Planning Emphasis (p. 180)
- Environmental Policy Emphasis (p. 181)
  - Environmental Policy Emphasis (Accelerated) / Integrated with graduate Environmental Science & Policy program (p. 182)
- Environmental Policy and Planning Minor (p. 184)

An academic plan for a major in Public Administration may vary, depending upon student interests, needs, and specialization within the major. The courses listed below, and the sequence in which they are listed, represent the faculty's recommendation for the general array of courses taken by all students in the program. Of particular importance is that lower-level prerequisites be completed before enrollment in upper-level courses. Students should pay particular attention to those required courses included in their academic plans that are offered only in alternate years.

As part of the general education requirements of the University, all majors will be completing 36 to 42 credits of work, including 9 credits or 3 courses each in the humanities, natural sciences, and social sciences, 3 credits in Other Cultures, 3 credits of Ethnic Studies and 4 courses certified for the Writing Emphasis requirement. Some of these requirements are satisfied by courses taken as part of the major. Beyond these, we encourage Public Administration majors to discuss their preferences for general education courses, as well as other electives, with the PEA faculty. In general, we recommend that students become thoroughly acquainted with the major ideas, findings, and methods of inquiry in each domain of knowledge. We especially encourage majors to take introductory courses in the social sciences beyond those required as lower-level prerequisites (e.g., in sociology, psychology, and political science).

Recommended Academic Plan (using a sample of a possible electives) (p. 179)

**Ray Hutchison**; Professor; Ph.D., University of Chicago

**John R Stoll;** Professor; Ph.D., University of Kentucky, chair\*

**Marcelo P Cruz;** Associate Professor; Ph.D., University of California - Los Angeles

**David J Helpap;** Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Thomas S Nessler;** Associate Professor; Ph.D., University of Washington - Seattle

**Laurel E Phoenix;** Associate Professor; Ph.D., State University of New York - College of Environmental Science and Forestry\*

**Lora H Warner;** Associate Professor; Ph.D., Virginia Commonwealth University

**Aaron C Weinschenk;** Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Elizabeth E Wheat;** Associate Professor; Ph.D., Western Michigan University\*

## Environmental Policy and Planning Curriculum Guide

An example: Four year plan for Environmental Policy and Planning Major

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ENV SCI 102	Introduction to Environmental Sciences	3
POL SCI 101	American Government and Politics	3
First Year Seminar		3
General Ed		3
General Ed		3
		Credits
		15
<b>Spring</b>		
PU EN AF 202	Introduction to Public Policy	3
Science Lower Level Elective		3
General Ed		3
General Ed		3
General Ed		3
		Credits
		15
<b>Sophomore</b>		
<b>Fall</b>		
ECON 203	Micro Economic Analysis	3
Science Lower Level Elective		3
Science Lower Level Elective		3
General Ed		3
General Ed		3
		Credits
		15
<b>Spring</b>		
BUS ADM 216 or COMM SCI 205 or MATH 260	Business Statistics or Social Science Statistics or Introductory Statistics	4
Science Lower Level Elective		3
General Ed		3
General Ed		3
General Ed		3
		Credits
		16
<b>Junior</b>		
<b>Fall</b>		
PU EN AF 378	Environmental Law	3

PU EN AF 350 or PU EN AF 408	GIS in Public and Environmental Policy or Public Policy Analysis	2-3
Environmental Science Upper Level Elective		3
Environmental Policy and Planning Upper Level Elective		3
General Ed		3
Credits		14-15
<b>Spring</b>		
PU EN AF 301	Environmental Politics and Policy	3
PU EN AF 322	Environmental Planning	3
Environmental Science Upper Level Elective		3
Environmental Policy and Planning Upper Level Elective		3
General Ed		3
Credits		15
<b>Senior</b>		
<b>Fall</b>		
PU EN AF 497	Internship (or Applied Learning)	3
Environmental Policy and Planning Upper Level Elective		3
Environmental Policy and Planning Upper Level Elective		3
General Ed		3
General Ed		3
Credits		15
<b>Spring</b>		
PU EN AF 497	Internship (or Applied Learning)	3
Environmental Policy and Planning Upper Level Elective		3
Environmental Policy and Planning Upper Level Elective		3
General Ed		3
General Ed		3
Credits		15
Total Credits		120-121

## Environmental Policy and Planning Major

### Area of Emphasis

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

- Regional Planning & Environmental Design Emphasis (p. 183)
- Environmental Planning Emphasis (p. 180)
- Environmental Policy Emphasis (p. 181)
- Environmental Policy Emphasis (Accelerated) / Integrated with graduate Environmental Science & Policy program (p. 182)

### Environmental Planning Emphasis

## ENVIRONMENTAL POLICY AND PLANNING Major

Code	Title	Credits
<b>Core Supporting Courses</b>		14-15
<b>Required:</b>		
PU EN AF 102	Environment and Society	
PU EN AF 250	Introduction to Geographic Information Systems (GIS)	
GEOG 102	World Regions and Concepts: A Geographic Analysis	
<b>Complete one Public Policy course:</b>		
POL SCI 101	American Government and Politics	
POL SCI 202	Introduction to Public Policy	
PU EN AF 220	Economics, Politics, and Government Action	

**Complete one Research/Statistics course:**

BUS ADM 216	Business Statistics
COMM SCI 205	Social Science Statistics
COMM SCI 301	Foundations for Social Research
MATH 260	Introductory Statistics

**Upper Level Courses****Required**

23

GEOSCI 222	Ocean of Air: Weather and Climate
PU EN AF 301	Environmental Politics and Policy
PU EN AF 322	Environmental Planning
PU EN AF 323	Sustainable Land Use
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 450	Advanced Geographic Information Systems

**Elective Courses**

9

Choose from the following:

PU EN AF 321	Coastal Resources Policy and Management
PU EN AF 324	Transitioning to Sustainable Communities
PU EN AF 379	Natural Resources Policy, Law, and Administration
PU EN AF 428	Public and Nonprofit Program Evaluation
PU EN AF 431	Building Sustainable Landscapes
PU EN AF 494	Teaching Assistant
PU EN AF 495	Research Assistantship
PU EN AF 498	Independent Study
PU EN AF 497	Internship
PU EN AF 499	Travel Course
SOCIOL 355	Environmental Sociology

Total Credits

46-47

## Environmental Policy Emphasis

### ENVIRONMENTAL POLICY AND PLANNING Major

Code	Title	Credits
<b>Core Supporting Courses</b>		14-15
<b>Required:</b>		
PU EN AF 102	Environment and Society	
PU EN AF 250	Introduction to Geographic Information Systems (GIS)	
GEOG 102	World Regions and Concepts: A Geographic Analysis	
<b>Complete one Public Policy course:</b>		
POL SCI 101	American Government and Politics	
PU EN AF 202	Introduction to Public Policy	
PU EN AF 220	Economics, Politics, and Government Action	
<b>Complete one Research/Statistics course:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
COMM SCI 301	Foundations for Social Research	
MATH 260	Introductory Statistics	
<b>Environmental Policy Requirements</b>		
<b>Required Supporting courses:</b>		6
ECON 203	Micro Economic Analysis	
GEOSCI 222	Ocean of Air: Weather and Climate	

**Upper Level Courses**

<b>Required:</b>		<b>24</b>
PU EN AF 301/POL SCI 301	Environmental Politics and Policy	
PU EN AF 323	Sustainable Land Use	
PU EN AF 351	Water Resources Policy and Management	
PU EN AF 378	Environmental Law	
PU EN AF 380/POL SCI 380	Global Environmental Politics and Policy	
PU EN AF 408/POL SCI 408	Public Policy Analysis	
<b>Electives</b>		<b>12</b>
<b>Complete one Economics course:</b>		
PU EN AF 305/ECON 305	Natural Resources Economic Policy	
PU EN AF 402/ECON 402	Environmental and Resource Economics	
<b>Complete one Policy or Planning course:</b>		
PU EN AF 306/POL SCI 306	Regulatory Policy and Administration	
PU EN AF 314/POL SCI 314	Administrative Law	
PU EN AF 322	Environmental Planning	
PU EN AF 379	Natural Resources Policy, Law, and Administration	
PU EN AF 406/POL SCI 406	State and Local Government	
<b>Complete one Sustainability course:</b>		
PU EN AF 321/GEOG 321	Coastal Resources Policy and Management	
PU EN AF 324	Transitioning to Sustainable Communities	
<b>Other electives:</b>		
PU EN AF 453	Cost Benefit Analysis	
PU EN AF 494	Teaching Assistant	
PU EN AF 495	Research Assistantship	
PU EN AF 497	Internship	
PU EN AF 498	Independent Study	
PU EN AF 499	Travel Course	

Total Credits

56-57

## Environmental Policy Emphasis (Accelerated)

### ENVIRONMENTAL POLICY & PLANNING Major

Code	Title	Credits
<b>Core Supporting Courses</b>		<b>14-15</b>
<b>Required:</b>		
PU EN AF 102	Environment and Society	
PU EN AF 250	Introduction to Geographic Information Systems (GIS)	
GEOG 102	World Regions and Concepts: A Geographic Analysis	
<b>Complete one Public Policy course:</b>		
POL SCI 101	American Government and Politics	
PU EN AF 202	Introduction to Public Policy	
PU EN AF 220	Economics, Politics, and Government Action	
<b>Complete one Research/Statistics course:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
COMM SCI 301	Foundations for Social Research	
MATH 260	Introductory Statistics	
<b>Environmental Policy Requirements</b>		
<b>Required Supporting Courses:</b>		<b>6</b>
ECON 203	Micro Economic Analysis	

GEOSCI 222	Ocean of Air: Weather and Climate	
<b>Upper Level Courses</b>		
<b>Required:</b>		<b>24</b>
PU EN AF 301/POL SCI 301	Environmental Politics and Policy	
PU EN AF 323	Sustainable Land Use	
PU EN AF 351/AF 551	Water Resources Policy and Management #	
PU EN AF 378/AF 578	Environmental Law #	
PU EN AF 380/POL SCI 380/ PU EN AF 580	Global Environmental Politics and Policy #	
PU EN AF 408/POL SCI 408/ PU EN AF 608	Public Policy Analysis #	
<b>Electives:</b>		<b>12</b>
<b>Complete one Economics course:</b>		
PU EN AF 305/ECON 305	Natural Resources Economic Policy	
PU EN AF 402/ECON 402/ PU EN AF 602	Environmental and Resource Economics #	
<b>Complete one Policy or Planning course:</b>		
PU EN AF 306/POL SCI 306/ PU EN AF 506	Regulatory Policy and Administration #	
PU EN AF 314/POL SCI 314/ PU EN AF 514	Administrative Law #	
PU EN AF 322/AF 522	Environmental Planning #	
PU EN AF 379/AF 579	Natural Resources Policy, Law, and Administration #	
PU EN AF 406	State and Local Government	
<b>Complete one Sustainability course:</b>		
PU EN AF 321/GEOG 321	Coastal Resources Policy and Management	
PU EN AF 324	Transitioning to Sustainable Communities	
PU EN AF 431	Building Sustainable Landscapes	
<b>Other electives:</b>		
PU EN AF 453	Cost Benefit Analysis	
PU EN AF 494	Teaching Assistant	
PU EN AF 495	Research Assistantship	
PU EN AF 497	Internship	
PU EN AF 498	Independent Study	
PU EN AF 499	Travel Course	
<b>Total Credits</b>		<b>56-57</b>

# Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the Environmental Science & Policy graduate office or refer to the graduate catalog (<http://catalog.uwgb.edu/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated>).

## Regional Planning & Environmental Design Emphasis

### ENVIRONMENTAL POLICY & PLANNING Major

Code	Title	Credits
<b>Core Supporting Courses</b>		
<b>Required:</b>		<b>14-15</b>
PU EN AF 102	Environment and Society	
PU EN AF 250	Introduction to Geographic Information Systems (GIS)	
GEOG 102	World Regions and Concepts: A Geographic Analysis	
<b>Complete one Public Policy course:</b>		
PU EN AF 202	Introduction to Public Policy	
PU EN AF 220	Economics, Politics, and Government Action	

POL SCI 101	American Government and Politics	
<b>Complete one Research/Statistics course:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
COMM SCI 301	Foundations for Social Research	
MATH 260	Introductory Statistics	
<b>Upper Level Courses</b>		
<b>Required:</b>		<b>26</b>
PU EN AF 350	GIS in Public and Environmental Policy	
PU EN AF 450	Advanced Geographic Information Systems	
PU EN AF 452	Planning Theory and Methods	
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 Planning	
UR RE ST 454	Designing Communities and Neighborhoods	
<b>Electives</b>		<b>9</b>
PU EN AF 322	Environmental Planning	
PU EN AF 324	Transitioning to Sustainable Communities	
PU EN AF 431	Building Sustainable Landscapes	
PU EN AF 461	Special Topics in Public and Environmental Affairs	
PU EN AF 494	Teaching Assistant	
PU EN AF 495	Research Assistantship	
PU EN AF 497	Internship	
PU EN AF 498	Independent Study	
PU EN AF 499	Travel Course	
SOCIOL 355	Environmental Sociology	
UR RE ST 323	Asian American Communities in the United States	
UR RE ST 324	Latino Communities in the United States	
UR RE ST 341	Urban Geography	
Total Credits		49-50

## Environmental Policy and Planning Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>11</b>
<b>Required:</b>		
PU EN AF 102	Environment and Society	
PU EN AF 250	Introduction to Geographic Information Systems (GIS)	
Choose two of the following courses:		
ECON 203	Micro Economic Analysis	
PU EN AF 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
<b>Upper-Level Courses</b>		<b>14-15</b>
Complete these required courses:		
PU EN AF 301	Environmental Politics and Policy	
PU EN AF 322	Environmental Planning	
Complete three of the following courses:		
PU EN AF 305/ECON 305	Natural Resources Economic Policy	
PU EN AF 306	Regulatory Policy and Administration	
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 408	Public Policy Analysis
PU EN AF 431	Building Sustainable Landscapes
PU EN AF 497	Internship

Total Credits

25-26

## Environmental Science

(Bachelor of Science)

The Environmental Science major prepares students to analyze, understand, and solve environmental problems. While many universities are just beginning to recognize the need for environmental science programs, UW-Green Bay has over 50 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.

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.

Students who plan to pursue this major will apply science and mathematics in their course work. Courses in biology, chemistry, geoscience, mathematics, and physics provide the needed background. 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 current 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 and laboratories.

Environmental Science students have access to modern computer facilities which are continually upgraded. Computing software resources emphasizing geographic information systems (GIS), 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 and several natural areas in the region including Point au Sable, Tofts Point and Kingfisher Farms. The Gary A. Fewless Herbarium, and the Richter Museum of Natural History on campus include extensive collections of plant and animal specimens. Funding opportunities are also available through the Biodiversity Center for independent student research projects.

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/>.

## Area of Emphasis

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

- General (p. 189)
- Accelerated Environmental Science & Policy graduate program
- Environmental Science Minor (p. 190)
- International Environmental Studies Minor (p. 191)

The following curriculum guide is for a four-year Environmental Science degree program and is subject to change without notice. Students should consult an Environmental Science program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Environmental Science Major Curriculum Guide (p. 188)

### Cooperative Program in Civil & Environmental Engineering 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/)

#### Dual Degree Program

UW-Green Bay and UW-Milwaukee also offer a Dual Degree Program in environmental science and civil 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 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 Cooperative Program

### All engineering and dual degree majors must take:

Code	Title	Credits
<b>Required Courses</b>		
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	English Composition I: College Writing	3
ENGR 213	Mechanics I	3
ENGR 214	Mechanics II	3
ENGR 301	Engineering Materials	2
MATH 202	Calculus and Analytic Geometry I	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		43

See an adviser for additional requirements in aerospace, chemical, nuclear, and petroleum engineering.

**Gregory J Davis**; Professor; Ph.D., Northwestern University\*

**Mathew E Dornbush**; Professor; Ph.D., Iowa State University\*

**Michael L Draney**; Professor; Ph.D., University of Georgia, chair\*

**Heidi S FencI**; Professor; Ph.D., The Ohio State University\*

**Kevin J Fermanich**; Professor; Ph.D., University of Wisconsin - Madison\*

**Robert W Howe**; Professor; Ph.D., University of Wisconsin - Madison

**Woo Jeon**; Professor; Ph.D., University of Wisconsin - Madison

**John F Katers**; Professor; Ph.D., Marquette University\*

**John A Luczaj**; Professor; Ph.D., Johns Hopkins University\*

**Gary L Miller**; Professor; Ph.D., Mississippi State University

**Patricia A Terry**; Professor; Ph.D., University of Colorado\*

**Amy T Wolf**; Professor; Ph.D., University of California - Davis\*

**Michael E Zorn**; Professor; Ph.D., University of Wisconsin - Madison\*

**Franklin M Chen**; Associate Professor; Ph.D., Princeton University\*

**Ryan M Currier**; Associate Professor; Ph.D., Johns Hopkins University\*

**Patrick S Forsythe**; Associate Professor; Ph.D., Michigan State University\*

**Lisa Grubisha**; Associate Professor; Ph.D., University of California - Berkeley

**Michael J McIntire**; Associate Professor; Ph.D., University of California - Riverside

**Steven J Meyer**; Associate Professor; Ph.D., University of Nebraska - Lincoln\*

**Megan J Olson-Hunt**; Associate Professor; Ph.D., University of Pittsburgh

**Julie M Wondergem**; Associate Professor; Ph.D., Marquette University

**Jeremy J Intemann**; Assistant Professor; Ph.D., Iowa State University

**Mohammad Mahfuz**; Assistant Professor; Ph.D., University of Ottawa

**Tetyana Malysheva**; Assistant Professor; Ph.D., University of Oklahoma

**Brian Welsch**; Assistant Professor; Ph.D., Montana State University

**Theresa E Adsit**; Senior Lecturer; M.S., University of Wisconsin - Milwaukee

**Mary E Guy**; Senior Lecturer; M.S., University of Wisconsin - Oshkosh

**James M Meyer**; Senior Lecturer; Ph.D., University of North Carolina

**Nydia D Villanueva**; Senior Lecturer; Ph.D., University of Connecticut

## Environmental Science Curriculum Guide

An example: Four year plan for **Environmental Science Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
MATH 104	Precalculus (or MATH 202 or MATH 203)	4
First Year Seminar		3
	Credits	16
<b>Spring</b>		
BIOLOGY 203	Principles of Biology: Organisms, Ecology, and Evolution	3
BIOLOGY 204	Principles of Biology Lab: Organisms, Ecology, and Evolution	1
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
ENV SCI 102	Introduction to Environmental Sciences	3
ENG COMP 100 or ENG COMP 105	English Composition I: College Writing or English Composition II: Composition and Rhetoric	3
	Credits	15
<b>Sophomore</b>		
<b>Fall</b>		
GEOSCI 202	Physical Geology	4
ENV SCI 302	Principles of Ecology	4
MATH 260	Introductory Statistics	4
POL SCI 101 or POL SCI 202	American Government and Politics or Introduction to Public Policy	3
	Credits	15
<b>Spring</b>		
ENV SCI 303	Environmental Sustainability (or Env Sci 460 or PU EN AF 301 or Pu En Af 378)	3
ENV SCI 336	Environmental Statistics	2
ENV SCI 337	Environmental GIS	2
PU EN AF 250	Introduction to Geographic Information Systems (GIS)	2
General Education/Elective		3

General Education/Elective		3
	Credits	15
<b>Junior</b>		
<b>Fall</b>		
ENV SCI 305	Environmental Systems	4
ENV SCI 338	Environmental Modeling	2
ENV SCI 339	Scientific Writing	2
General Education/Elective		3
General Education/Elective		3
	Credits	14
<b>Spring</b>		
ENV SCI Upper Level Elective		3
General Education/Elective		3
General Education/Elective		3
General Education/Elective		3
General Education/Elective		3
	Credits	15
<b>Senior</b>		
<b>Fall</b>		
ENV SCI 467 or ENV SCI 491 or ENV SCI 492	Capstone in Environmental Science or Senior Thesis/ Research in Environmental Science or Practicum in Environmental Science	4
ENV SCI Upper Level Elective		3
General Education/Elective		3
General Education/Elective		3
General Education/Elective		3
	Credits	16
<b>Spring</b>		
ENV SCI Upper Level Elective		3
General Education/Elective		3
General Education/Elective		3
General Education/Elective		3
General Education/Elective		3
	Credits	15
	<b>Total Credits</b>	<b>121</b>

## Environmental Science Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>36</b>
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 or PU EN AF 202	American Government and Politics Introduction to Public Policy Introduction to Public Policy	

<b>Mathematics (choose one of the following courses):</b>		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
<b>Upper-Level Courses</b> <sup>1</sup>		<b>34</b>
ENV SCI 302	Principles of Ecology	
ENV SCI/ET 305	Environmental Systems	
ENV SCI/ET 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 303	Environmental Sustainability	
ENV SCI 460	Resource Management Strategy	
PU EN AF 301/POL SCI 301	Environmental Politics and Policy	
PU EN AF 378	Environmental Law	
<b>Elective Courses (choose 9 additional credits; no more than 6 credits from ENV SCI 497, 498, 499):</b>		
any 300-level ENV SCI course		
any 400-level ENV SCI course		
GEOSCI 325	Regional Climatology	
WATER 321	Stable Isotopes in the Environment	
Total Credits		<b>70</b>

<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 Minors

- Environmental Science Minor (p. 190)
- International Environmental Studies Minor (p. 191)

## 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.

Code	Title	Credits
<b>Supporting Courses</b> <sup>1</sup>		<b>7</b>
ENV SCI 102	Introduction to Environmental Sciences	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>12</b>
ENV SCI 303	Environmental Sustainability	
or ENV SCI 460	Resource Management Strategy	
<b>Elective Courses (choose 9 additional credits; no more than 6 credits from ENV SCI 497, 498, 499):</b>		
any 300-level ENV SCI course		
any 400-level ENV SCI course		
GEOSCI 325	Regional Climatology	
WATER 321	Stable Isotopes in the Environment	
Total Credits		<b>19</b>

<sup>1</sup> Additional courses may be necessary to satisfy prerequisites for the upper-level elective courses that a student selects.

## International Environmental Studies Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
Choose 6 credits:		
ENV SCI 102	Introduction to Environmental Sciences	
ENV SCI 260	Energy and Society	
GEOG 102	World Regions and Concepts: A Geographic Analysis	
PHILOS 220	Environmental Ethics	
PU EN AF 102	Environment and Society	
<b>Upper Level Courses</b>		<b>15</b>
<b>Environmental Courses - Choose 6 credits:</b>		
ENV SCI 303	Environmental Sustainability	
ENV SCI 425	Global Climate Change	
POL SCI 380	Global Environmental Politics and Policy	
<b>International Courses - Choose 6 credits:</b>		
FRENCH 354	France Today	
FRENCH 355	Le Monde Francophone	
GERMAN 355	Deutsche Kultur und Landeskunde	
GERMAN 356	German Culture	
SPANISH 361	The Cultures of Spain	
SPANISH 358	Latin America Today	
<b>A 3 credit international Internship or a Study Abroad experience <sup>1</sup></b>		
Total Credits		21

<sup>1</sup> An international Internship or a Study Abroad experience with an emphasis on environmental issues in the area of specialization. Study Abroad experiences may include but are not limited to the following programs: Chile (Environmental Sciences and Sustainability), Germany (RheinMain University of Applied Sciences) or Panama (Biology and Environmental Sciences) or any other approved Travel Course dealing with environmental issues and/or sustainability.

## First Nations Studies

(Bachelor of Arts)

First Nations Studies 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. 193)
- First Nations Studies Minor (p. 194)

The following is a curriculum guide for a four-year First Nations Studies degree program and is subject to change without notice. Students should consult a First Nations Studies program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- First Nations Studies Major with Emphasis in Oral Traditional Curriculum Guide (p. 192)

**John P Leary**; Associate Professor; Ph.D., University of Wisconsin - Madison

**Lisa M Poupart**; Associate Professor; Ph.D., Arizona State University, chair

**Forrest W Brooks**; Lecturer; M.S., University of Wisconsin - Milwaukee

## First Nations Studies Curriculum Guide

An example: Four year plan for **First Nations Studies**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
FNS 211	Mentoring First Nations Youth (or in Freshman year Spring)	3
FNS 225 or FNS 226	Introduction to First Nations Studies: The Tribal World or Introduction to First Nations Studies: Social Justice	3
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>18</b>
<b>Spring</b>		
FNS 211	Mentoring First Nations Youth	3
FNS 225 or FNS 226	Introduction to First Nations Studies: The Tribal World or Introduction to First Nations Studies: Social Justice	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>18</b>
<b>Sophomore</b>		
<b>Fall</b>		
FNS 224	First Nations and The Sacred	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Spring</b>		
FNS 301	Oneida Language I	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
FNS 393	First Nations and Education Policy	3



FNS Upper Level Elective		3
General Ed		3
General Ed		3
General Ed		3
Elective		3
Credits		18
<b>Spring</b>		
FNS 392	First Nations Justice and Tribal Governments (or FNS Upper Level Elective)	3
General Ed		3
General Ed		3
Elective		3
Elective		3
Credits		15
<b>Senior</b>		
<b>Fall</b>		
FNS 391	First Nations Studies Capstone Seminar	3
FNS Upper Level Elective		3
FNS Upper Level Elective		3
FNS Upper Level Elective		3
Elective		3
Credits		15
<b>Spring</b>		
FNS 399	First Nations Studies Oral Tradition Concentration	12
Elective		3
Credits		15
Total Credits		129

## First Nations Studies Major

Code	Title	Credits
<b>Supporting Courses</b>		12
<b>Required Core Courses</b>		
FNS 211	Mentoring First Nations Youth <sup>1</sup>	
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 Capstone 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 301	Oneida Language I	
FNS 399	First Nations Studies Oral Tradition Concentration (Repeatable 3-12 credits)	

FNS 399	First Nations Studies Oral Tradition Concentration
<b>Elective Courses (choose 9 credits):</b> <sup>2</sup>	
ART 381	Art of the First Nations
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	First Nations Intellectual Traditions
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)

Total Credits

39

<sup>1</sup> OR equivalent 3 credit learning experience<sup>2</sup> Courses do not double count with Oral Emphasis options above.

## First Nations Studies Minor

Code	Title	Credits
<b>Supporting Courses</b>		9
FNS 211	Mentoring First Nations Youth <sup>1</sup>	
FNS 225	Introduction to First Nations Studies: The Tribal World	
FNS 226	Introduction to First Nations Studies: Social Justice	
<b>Upper Level Courses</b>		15
FNS 391	First Nations Studies Capstone 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>2</sup>		
ART 381	Art of the First Nations	
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	First Nations Intellectual Traditions	
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>3</sup>	

FNS 299/499

Travel Course

Total Credits

24

- 1 OR equivalent 3 credit learning experience
- 2 Courses do not double count with Policy Requirement courses above.
- 3 Requires approval of First Nations Studies adviser.

## French and Francophone Studies

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.

Students who begin their French and Francophone Studies at UW-Green Bay should enroll in FRENCH 101. The normal sequence of language courses is:

Code	Title	Credits
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 320	Intermediate Composition and Conversation	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 320, 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 320; 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.

## Area of Emphasis

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

- French and Francophone Studies Emphasis (p. 196)
- French and Francophone Studies Emphasis for Students Seeking Teaching Certification (p. 197)

**Cristina M Ortiz**; Professor; Ph.D., University of Cincinnati, chair

## French and Francophone Studies Minor

### Area of Emphasis

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

- French and Francophone Studies Emphasis (p. 196)
- French and Francophone Studies Emphasis for Students Seeking Teaching Certification (p. 197)

## French and Francophone Studies Emphasis

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
FRENCH 201	Intermediate French Language I	
FRENCH 202	Intermediate French Language II	
<b>Upper-Level Courses</b>		<b>12</b>
FRENCH 320	Intermediate Composition and Conversation	
FRENCH 325	Advanced French Conversation and Composition <sup>1</sup>	
<b>Elective Courses (choose 6 credits):</b>		
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 emphasis also requires:

- Completion of the Education major.
- 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.

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
FRENCH 201	Intermediate French Language I	
FRENCH 202	Intermediate French Language II	
<b>Upper-Level Courses</b>		<b>18</b>
EDUC 311	Teaching Foreign Languages	
FRENCH 320	Intermediate Composition and Conversation	
FRENCH 325	Advanced French Conversation and Composition <sup>1</sup>	
FRENCH 345	Advanced French Grammar and Translation	
FRENCH 346	French Phonetics and Public Speaking	
<b>Elective Courses (choose 3 credit upper-level course):</b>		
Total Credits		24

<sup>1</sup> Some upper-level courses are repeatable for credit when course topic varies. See adviser.

## Geography

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.

Depending on their career goals, students might effectively combine Geography with programs in Business Administration, Environmental Policy and Planning, Urban 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.

- Geography Minor (p. 198)

**Marcelo P Cruz**; Associate Professor; Ph.D., University of California - Los Angeles

**Laurel E Phoenix**; Associate Professor; Ph.D., State University of New York - College of Environmental Science and Forestry, chair\*

## Geography Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>8</b>
GEOG 102	World Regions and Concepts: A Geographic Analysis	
GEOG 250/PU EN AF 250	Introduction to Geographic Information Systems (GIS)	
<b>Choose one of the following courses:</b>		
GEOG 210	Human Geography and Concepts	
GEOG 222	Ocean of Air: Weather and Climate	
GEOSCI 102	Natural Hazards	
PU EN AF 102	Environment and Society	
<b>Upper-Level Courses</b> <sup>1</sup>		<b>12</b>
Courses selected must come from at least two of the following areas:		
<b>Physical Geography</b>		
GEOSCI 325	Regional Climatology	
GEOSCI 425	Global Climate Change	
<b>Human Geography</b>		
GEOG 341	Urban Geography	
PU EN AF 324	Transitioning to Sustainable Communities	
<b>Regional Geography</b>		
GEOG 370	Geography of South America	
UR RE ST 499	Travel Course	
<b>Geographic Techniques</b>		
GEOG 350	GIS in Public and Environmental Policy	
GEOG 450	Advanced Geographic Information Systems	
Total Credits		20

<sup>1</sup> Internships and independent study opportunities are available with faculty approval.

## Geoscience

(Bachelor of Science)

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.

## Area of Emphasis

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

- General Emphasis (p. 202)
- Emphasis for Students Seeking Teaching Certification (p. 201)

## Area of Emphasis

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

- Geoscience Emphasis (p. 203)
- Geoscience Emphasis for Students Seeking Teaching Certification (p. 203)

An example: Four year plan for **Geoscience Major**

120 credits necessary to graduate. Participation in field courses, the Geology Club, internships, and/or independent studies are highly recommended.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Geoscience Curriculum Guide (p. 199)

**Kevin J Fermanich**; Professor; Ph.D., University of Wisconsin - Madison, chair\*

**John A Luczaj**; Professor; Ph.D., Johns Hopkins University\*

**Ryan M Currier**; Associate Professor; Ph.D., Johns Hopkins University\*

**Melvin Johnson**; Associate Professor; Ph.D., University of Nebraska-Lincoln

**Steven J Meyer**; Associate Professor; Ph.D., University of Nebraska - Lincoln\*

**Keith West**; Associate Professor; Ph.D., University of Wisconsin-Milwaukee

## Geoscience Curriculum Guide

An example: Four year plan for **Geoscience Major**

120 credits necessary to graduate. Participation in field courses, the Geology Club, internships, and/or independent studies are highly recommended.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
GEOSCI 202	Physical Geology	4
ENG COMP 100	English Composition I: College Writing	3
MATH 104 or MATH 202	Precalculus or Calculus and Analytic Geometry I	4
First Year Seminar		3
General Ed		3
		<b>Credits</b>
		<b>17</b>
<b>Spring</b>		
GEOSCI 203	Earth System History	3
GEOSCI 204	Earth System History Laboratory	1

MATH 202 or MATH 260	Calculus and Analytic Geometry I or Introductory Statistics	4
ENG COMP 105 or COMM 133	English Composition II: Composition and Rhetoric or Fundamentals of Public Address	3
ENV SCI 421	Geoscience Field Trip	1
General Ed		3
	Credits	15
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
ENV SCI 330	Hydrology	3
MATH 202 or MATH 260	Calculus and Analytic Geometry I or Introductory Statistics	4
General Ed		3
	Credits	15
<b>Spring</b>		
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
General Ed		3
Elective		3
Elective		3
ENV SCI 421	Geoscience Field Trip	1
	Credits	15
<b>Junior</b>		
<b>Fall</b>		
GEOSCI 340	Introduction to Mineralogy & Petrology	4
ENV SCI 320	The Soil Environment	4
PHYSICS 201	Principles of Physics I	5
General Ed		3
	Credits	16
<b>Spring</b>		
GEOSCI/ENV SCI Upper Level Elective		3
GEOSCI/ENV SCI Upper Level Elective		3
Elective		3
Elective		3
Elective		3
ENV SCI 421	Geoscience Field Trip	1
	Credits	16
<b>Senior</b>		
<b>Fall</b>		
GEOSCI/ENV SCI Upper Level Elective		3
Elective		3
Elective		3
Elective		3
General Ed		3
	Credits	15
<b>Spring</b>		
GEOSCI 432	Hydrogeology	3
GEOSCI/ENV SCI Upper Level Elective		3
Elective		3



Elective	3
Credits	12
Total Credits	121

\*Students are encouraged to take science and math courses early in their career, so that they are better prepared for opportunities such as scientific research or internships as sophomores, juniors, & seniors.

## Geoscience Major

### Area of Emphasis

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

- Geoscience Emphasis (p. 202)
- Geoscience Emphasis for Students Seeking Teaching Certification (p. 201)

## Education Emphasis

### GEOSCIENCE Major

This emphasis also requires:

- Admission to the Education Program
- Completion of the Education minor

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		26-27
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
GEOSCI 202	Physical Geology	
GEOSCI 203	Earth System History	
GEOSCI 204	Earth System History Laboratory	
GEOSCI 222	Ocean of Air: Weather and Climate	
PHYSICS 141	Astronomy	
<b>Choose two of the following courses:</b>		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 260	Introductory Statistics	
COMM 133 or ENG COMP 105	Fundamentals of Public Address English Composition II: Composition and Rhetoric	
<b>Upper-Level Courses</b>		26
ENV SCI 320	The Soil Environment	
ENV SCI 330 or GEOSCI 432	Hydrology Hydrogeology	
GEOSCI 340	Introduction to Mineralogy & Petrology	
<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	
GEOSCI 350	Structural Geology and Geodynamics	
GEOSCI 402	Sedimentology & Stratigraphy	
GEOSCI 450	Ore Deposits	
GEOSCI 470	Glacial Geology & Landscapes	
GEOSCI 492	Special Topics in Geoscience <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.

## General Emphasis

### GEOSCIENCE Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>34</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	
GEOSCI 202	Physical Geology	
GEOSCI 203	Earth System History	
GEOSCI 204	Earth System History 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 English Composition II: Composition and Rhetoric	
<b>Upper-Level Courses</b>		<b>26</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 337	Environmental GIS	
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 350	Structural Geology and Geodynamics	
GEOSCI 402	Sedimentology & Stratigraphy	
GEOSCI 450	Ore Deposits	
GEOSCI 470	Glacial Geology & Landscapes	
GEOSCI 492	Special Topics in Geoscience <sup>1</sup>	
Total Credits		<b>60</b>

<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 Minor

### Area of Emphasis

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

- General Emphasis (p. 203)
- Emphasis for Students Seeking Teaching Certification (p. 203)

## Education Emphasis

### GEOSCIENCE Minor

This emphasis also requires:

- Admission to the Education Program.
- Completion of the Education major

Code	Title	Credits
<b>Supporting Courses</b> <sup>1</sup>		<b>19</b>
GEOSCI 202	Physical Geology	
GEOSCI 203	Earth System History	
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	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>12</b>
GEOSCI 340 or GEOSCI 402	Introduction to Mineralogy & Petrology Sedimentology & Stratigraphy	
<b>Choose at least 9 credits from the upper-level course list for the Geoscience major.</b>		
Total Credits		<b>31</b>

<sup>1</sup> Candidates for teacher certification are strongly urged to also take CHEM 212 and CHEM 214.

## General Emphasis

### GEOSCIENCE Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>20</b>
GEOSCI 202	Physical Geology	
GEOSCI 203	Earth System History	
<b>At least 5 credits of Chemistry at the 100-200 level</b>		
<b>Choose two of the following courses:</b>		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>12</b>
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		<b>32</b>

## German

(Bachelor of Arts)

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 winter or 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 and computers to support students' language acquisition and cultural awareness.

German students interested in the humanities may choose to minor in Humanities; 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 may choose a minor in Design Arts or Arts Management. Depending on their personal preferences and career goals, students may combine other programs, 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 320 — 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 320, 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 320; 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.

## Area of Emphasis

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

- German Emphasis (p. 207)
- German Emphasis for Students Seeking Teaching Certification (p. 206)

## Area of Emphasis

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

- German Emphasis (p. 208)
- German Emphasis for Students Seeking Teaching Certification (p. 208)

The following is a curriculum guide for a four-year German degree program and is subject to change without notice. Students should consult a German program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- German Major Curriculum Guide (p. 205)

**David N Coury**; Professor; Ph.D., University of Cincinnati, chair

**Jennifer Ham**; Professor; Ph.D., Rutgers University

## German Curriculum Guide

An example: Four year plan for **German Major; Minor in Humanities**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
GERMAN 201	Intermediate German Language I	3
HUM STUD 101 or HUM STUD 103 or HUM STUD 100	Foundations of Western Culture I or World Civilizations I or Living the Humanities	3
First Year Seminar		3
General Ed		3
General Ed		3
		Credits 15
<b>Spring</b>		
GERMAN 202	Intermediate German Language II	3
HUM STUD 102 or HUM STUD 104	Foundations of Western Culture II or World Civilizations II	3
ENG COMP 105	English Composition II: Composition and Rhetoric	3
General Ed		3
General Ed		3
		Credits 15
<b>Sophomore</b>		
<b>Fall</b>		
GERMAN 320	Intermediate German Conversation and Composition	3
HUM STUD 213 or FNS 226	Ethnic Diversity and Human Values or Introduction to First Nations Studies: Social Justice	3
General Ed		3
General Ed		3
General Ed		3
		Credits 15

<b>Spring</b>			
GERMAN 325	Advanced German Conversation and Composition		3
Humanistic Studies Perspectives Course			3
Elective			3
Elective			3
Elective			3
		Credits	15
<b>Junior</b>			
<b>Fall</b>			
GERMAN 329	Representative German Authors		3
German Upper Level Elective			3
Humanistic Studies Perspectives Course			3
Elective			3
Elective			3
		Credits	15
<b>Spring</b>			
German Upper Level Elective			3
German Upper Level Elective			3
Humanistic Studies Perspectives Course			3
Elective			3
Elective			3
		Credits	15
<b>Senior</b>			
<b>Fall</b>			
German Upper Level Elective			3
German Upper Level Elective			3
Humanistic Studies or FNS Upper Level Elective			3
Elective			3
Elective			3
		Credits	15
<b>Spring</b>			
German Upper Level Elective			3
German Upper Level Elective			3
Elective			3
Elective			3
Elective			3
		Credits	15
		Total Credits	120

## German Major

### Area of Emphasis

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

- General Emphasis (p. 207)
- Emphasis for Students Seeking Teaching Certification (p. 206)

## Education Emphasis

### GERMAN Major

This emphasis also requires:

- Admission to the Education Program.
- Completion of the Education minor
- 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.

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
GERMAN 201	Intermediate German Language I	
GERMAN 202	Intermediate German Language II	
<b>Upper-Level Courses</b>		<b>27</b>
EDUC 311	Teaching Foreign Languages	
GERMAN 320	Intermediate German Conversation and Composition	
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	
<b>Choose 9 credits of Elective courses:</b>		
Select from any 300-400 German upper level courses		
Total Credits		<b>33</b>

<sup>1</sup> Some upper-level courses may be repeated for credit when course content varies. See adviser.

## General Emphasis

### GERMAN Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
GERMAN 201	Intermediate German Language I	
GERMAN 202	Intermediate German Language II	
<b>Upper-Level Courses</b>		<b>24</b>
GERMAN 320	Intermediate German Conversation and Composition	
GERMAN 325	Advanced German Conversation and Composition	
GERMAN 329	Representative German Authors <sup>1</sup>	
<b>Choose 15 credits from the following courses: <sup>2</sup></b>		
GERMAN 333	Literary Themes	
GERMAN 335	Literary Eras	
GERMAN 350	Major German Drama	
GERMAN 351	Major German Prose Fiction	
GERMAN 345	Advanced German Grammar	
GERMAN 355	Deutsche Kultur und Landeskunde	
GERMAN 356	German Culture <sup>3</sup>	
GERMAN 357	German Cinema <sup>3</sup>	
GERMAN 358	German Politics and Society <sup>3</sup>	
GERMAN 420	Business German	
GERMAN 425	German Translation Studies	
GERMAN 498	Independent Study	
GERMAN 499	Travel Course	
Total Credits		<b>30</b>

<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.

<sup>3</sup> Only 6 credits of courses taught in English may be counted toward the major.

## German Minor

### Area of Emphasis

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

- General Emphasis (p. 208)
- Emphasis for Students Seeking Teaching Certification (p. 208)

### Education Emphasis

#### GERMAN Minor

This emphasis also requires:

- Admission to the Education Program.
- Completion of the Education major.
- 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.

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
GERMAN 201	Intermediate German Language I	
GERMAN 202	Intermediate German Language II	
<b>Upper-Level Courses</b>		<b>21</b>
EDUC 311	Teaching Foreign Languages	
GERMAN 320	Intermediate German Conversation and Composition	
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	
<b>Elective courses (choose 3 credits):</b>		
GERMAN 333	Literary Themes	
GERMAN 335	Literary Eras	
GERMAN 350	Major German Drama	
GERMAN 351	Major German Prose Fiction	
GERMAN 355	Deutsche Kultur und Landeskunde	
GERMAN 356	German Culture	
GERMAN 357	German Cinema	
GERMAN 358	German Politics and Society	
GERMAN 420	Business German	
GERMAN 425	German Translation Studies	
Total Credits		27

<sup>1</sup> Some upper-level courses may be repeated for credit when course content varies. See adviser.

### General Emphasis

#### GERMAN Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
GERMAN 201	Intermediate German Language I	
GERMAN 202	Intermediate German Language II	



Upper-Level Courses		15
GERMAN 320	Intermediate German Conversation and Composition	
GERMAN 325	Advanced German Conversation and Composition	
GERMAN 329	Representative German Authors <sup>1</sup>	
<b>Elective courses (choose 6 credits):</b> <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 355	Deutsche Kultur und Landeskunde	
GERMAN 356	German Culture	
GERMAN 357	German Cinema	
GERMAN 358	German Politics and Society	
GERMAN 420	Business German	
GERMAN 425	German Translation Studies	
GERMAN 499	Travel Course	
Total Credits		21

<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.

## Global Studies

The 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. 210)

**David N Coury**; Professor; Ph.D., University of Cincinnati

**Kevin J Fermanich**; Professor; Ph.D., University of Wisconsin - Madison\*

**Ekaterina M Levintova**; Professor; Ph.D., Western Michigan University

**Sarah A Meredith**; Professor; D.M.A., University of Iowa

**Cristina M Ortiz**; Professor; Ph.D., University of Cincinnati

**Tohoro F Akakpo**; Associate Professor; Ph.D., Michigan State University\*

**Marcelo P Cruz**; Associate Professor; Ph.D., University of California - Los Angeles

**Steven J Meyer**; Associate Professor; Ph.D., University of Nebraska - Lincoln\*

**Eric J Morgan**; Associate Professor; Ph.D., University of Colorado at Boulder

**Heidi M Sherman**; Associate Professor; Ph.D., University of Minnesota

**Christine L Vandenhouten**; Associate Professor; Ph.D., Marquette University, chair\*

**Kevin M Kain**; Lecturer; Ph.D., Western Michigan University

## Global Studies Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ENV SCI 102	Introduction to Environmental Sciences	
GEOG 102/UR RE ST 102	World Regions and Concepts: A Geographic Analysis	
<b>Choose one of the following courses:</b>		
ANTHRO 100	Varieties of World Culture	
ECON 202	Macro Economic Analysis	
HUM STUD/HISTORY 103	World Civilizations I	
HUM STUD/HISTORY 104	World Civilizations II	
MUSIC/WOST 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	
<b>Upper-Level Courses</b>		<b>15</b>
<b>Choose five courses from the thematic categories below. At least three courses must be from different categories.</b>		
<b>Global Democracy: institutions and citizenship</b>		
DJS/ECON 307	History of Economic Thought	
GERMAN 358	German Politics and Society	
HISTORY 470	Studies in Comparative History	
POL SCI 351	Comparative Politics	
POL SCI 360	International Relations	
POL SCI 370	Foreign and Defense Policies	
<b>Global Environmental Sustainability: natural resources, biodiversity and climate change</b>		
ENV SCI 303	Environmental Sustainability	
ENV SCI/GEOSCI 425	Global Climate Change	
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy	
<b>Global Human Security: basic human needs and services</b>		
ANTHRO 304	Family, Kin, and Community	
HISTORY 450	War and Civilization	
NURSING 492	Special Topics in Nursing	
Topic: Global Aspects of Healthcare		
PSYCH 350	Cultural Psychology	
<b>Global Peoples: nationality, ethnicity, race and religion</b>		
GEOG 370/UR RE ST 370	Geography of South America	
HISTORY 337	The Rise of Islamic Civilization to 1800	
HUM STUD 360	Globalization and Cultural Conflict	
HUM STUD 384	Topics in World Cultures	
POL SCI 353	Politics of Developing Areas	

Total Credits

24

## Health Information Management and Technology

(Bachelor of Science)

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. 212)
- Healthcare Technology (p. 212)

**Janet E Reilly**; Associate Professor; D.N.P., Case Western Reserve University\*

**Brenda L Tyczkowski**; Associate Professor; D.N.P., University of Kansas, chair\*

**Shauna M Froelich**; Lecturer; JD, Marquette University

**Rebecca D Hovarter**; Lecturer; DNP, University of Minnesota

## Health Information Management and Technology Major

### Area of Emphasis

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

- Healthcare Management (p. 212)
- Healthcare Technology (p. 212)

## Healthcare Management Emphasis

### HEALTH INFORMATION MANAGEMENT AND TECHNOLOGY Major

Code	Title	Credits
<b>Core Courses</b>		<b>49</b>
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 489	Pre-Capstone (Must be taken semester prior to HIMT 490)	
HIMT 490	Capstone	
<b>Healthcare Management Emphasis</b>		<b>12</b>
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		61

## Healthcare Technology Emphasis

### HEALTH INFORMATION MANAGEMENT AND TECHNOLOGY Major

Code	Title	Credits
<b>Core Courses</b>		<b>49</b>
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 489	Pre-Capstone (Must be taken semester prior to HIMT 490)	

HIMT 490	Capstone	
<b>Healthcare Technology Emphasis</b>		<b>12</b>
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		61

## History

(Bachelor of Arts)

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 seeking information on teacher certification should contact the Education Office.

- History Major (p. 215)
- History Minor (p. 216)

The following curriculum guide for a four-year History degree program is subject to change without notice. Students should consult a History program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- History Major Curriculum Guide (p. 213)

**Gregory S Aldrete**; Professor; Ph.D., University of Michigan

**Mark Karau**; Professor; Ph.D., Florida State University

**Harvey J Kaye**; Professor; Ph.D., Louisiana State University

**David J Voelker**; Professor; Ph.D., University of North Carolina at Chapel Hill

**Caroline S Boswell**; Associate Professor; Ph.D., Brown University

**Clifton G Ganyard**; Associate Professor; Ph.D., State University of New York at Buffalo

**Daniel Kallgren**; Associate Professor; Ph.D., University of Minnesota-Twin Cities

**James Vincent Lowery**; Associate Professor; Ph.D., University of Mississippi

**Eric J Morgan**; Associate Professor; Ph.D., University of Colorado at Boulder

**Kimberley A Reilly**; Associate Professor; Ph.D., University of Chicago

**Jon K Shelton**; Associate Professor; Ph.D., University of Maryland

**Heidi M Sherman**; Associate Professor; Ph.D., University of Minnesota, chair

## History Curriculum Guide

An example: Four year plan for **History Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
HISTORY 205	American History to 1865	3
First Year Seminar		3
General Ed		3
Elective		3
Elective		3
		Credits
		15
<b>Spring</b>		
HISTORY 206	History of the United States from 1865 to the Present	3
HISTORY 103 or HISTORY 104	World Civilizations I or World Civilizations II	3
General Ed		3
General Ed		3
Elective		3
		Credits
		15
<b>Sophomore</b>		
<b>Fall</b>		
HUM STUD 101	Foundations of Western Culture I	3
General Ed		3
General Ed		3
Elective		3
Elective		3
		Credits
		15
<b>Spring</b>		
HUM STUD 102	Foundations of Western Culture II	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
		Credits
		15
<b>Junior</b>		
<b>Fall</b>		
HISTORY 360	Ancient Greece	3
HISTORY 337 or HISTORY 356	The Rise of Islamic Civilization to 1800 or History of Modern Africa	3
General Ed		3
Elective		3
Elective		3
		Credits
		15
<b>Spring</b>		
HISTORY 330	Early Modern Europe	3
Elective		3
Elective		3
Elective		3
Elective		3
		Credits
		15
<b>Senior</b>		
<b>Fall</b>		
HISTORY 302	Problems in American Thought	3
HISTORY 361	Ancient Rome	3
Elective		3

Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
HISTORY 330	Early Modern Europe	3
HISTORY 480	Seminar in History	3
Elective		3
Elective		3
Elective		3
	Credits	15
	Total Credits	120

## History Major

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.

Code	Title	Credits
<b>Supporting Courses</b>		<b>18</b>
<b>American History</b>		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
<b>Western History</b>		
<b>Choose one of the following courses:</b>		
HISTORY/HUM STUD 101	Foundations of Western Culture I	
HISTORY/HUM STUD 102	Foundations of Western Culture II	
<b>World History</b>		
<b>Choose one of the following courses:</b>		
HISTORY/HUM STUD 103	World Civilizations I	
HISTORY/HUM STUD 104	World Civilizations II	
<b>Historical Methods</b>		
HISTORY 290	The Craft of History	
<b>Elective</b>		
<b>Choose 1 course not taken to meet one of the above requirements</b>		
DJS 221	American Law in Historical Perspective	
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	
<b>Upper-Level Courses</b>		<b>24</b>
HISTORY 480	Seminar in History	
<b>Category I, American History</b>		
<b>Choose one of the following courses:</b>		
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 312	The Early American Republic	
HISTORY/DJS 365	U.S. Labor and the Working Class: Past and Present	

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 356	History of Modern Africa
<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

Code	Title	Credits
<b>Supporting Courses</b>		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	
<b>Upper-Level Courses</b> <sup>2</sup>		12
<b>Choose a minimum of one of the following courses:</b>		
DJS 361	Historical Perspectives on American Democracy	
DJS 363	Topics in Democracy and Justice	
FNS 374	Wisconsin First Nations Ethnohistory	
HISTORY 302	Problems in American Thought	
HISTORY 309	United States Immigration History	
HISTORY 310	American Colonial History	
HISTORY 312	The Early American Republic	
HISTORY 340	Topics in African American History	
HISTORY/DJS 365	U.S. Labor and the Working Class: Past and Present	
HISTORY/WOST 370	History of Sexuality in the U.S.	
HISTORY/WOST 380	U.S. Women's History	
HISTORY 402	America in the Twentieth Century	



**Choose a minimum of one of the following courses:**

DJS 361	Historical Perspectives on American Democracy
DJS 363	Topics in Democracy and Justice
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
HISTORY 337	The Rise of Islamic Civilization to 1800
HISTORY 356	History of Modern Africa

**Any other 300-400 History courses may be used to complete this requirement**

Total Credits

18

- 1 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.
- 2 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

(Bachelor of Science)

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, physician assistant and 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 a background for careers in physical therapy, occupational therapy, athletic training, strength and conditioning, exercise physiology, fitness, or bio-mechanics.
- The **nutritional sciences/dietetics 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 **applied health emphasis** provides preparation for careers in public health. Students interested in pursuing a MPH (Master's of Public Health) and/or working in community health will benefit from this curriculum. This includes students considering a career as a "health inspector" as it helps prepare them for the registered sanitarian exam. <http://www.weha.net/registeredsanitarianinfo.php>
- The **general emphasis** is appropriate for students seeking careers in industrial, managerial, or sales positions in biological or health-related industries.
- 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 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/>.

## Area of Emphasis

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

- Health Science (p. 234)
- Exercise Science (p. 230)
- Applied Public Health (p. 226)
- Nutritional Sciences/Dietetics (p. 236)
- General Human Biology (p. 232)
- Cytotechnology (p. 228)

## Areas of Emphasis

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

- Applied Human Biology Emphasis (p. 237)
- General Human Biology Emphasis (p. 238)

The following are curriculum guides for the four-year Human Biology degree program and is subject to change without notice. Students should consult a Human Biology program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Human Biology Major with Exercise Science Emphasis Curriculum Guide (p. 220)
- Human Biology Major with Health Science Emphasis Curriculum Guide (p. 223)
- Human Biology Major with Nutritional Sciences / Dietetics Emphasis Curriculum Guide (p. 224)
- Human Biology Major with General Emphasis Curriculum Guide (p. 222)
- Human Biology Major with Cytotechnology Emphasis Curriculum Guide (p. 219)

**Jared Dalberg**; Associate Professor; M.E., Augusta State University

**Michael Hencheck**; Associate Professor; Ph.D., The Ohio State University

**James C Marker**; Associate Professor; Ph.D., Brigham Young University, chair\*

**Daniel J Meinhardt**; Associate Professor; Ph.D., University of Kansas\*

**Brian J Merkel**; Associate Professor; Ph.D., Virginia Commonwealth University

**Amanda J Nelson**; Associate Professor; PH.D., University of Illinois at Urbana-Champaign

**Debra A Pearson**; Associate Professor; Ph.D., University of California - Davis

**Uwe Pott**; Associate Professor; Ph.D., University of Zurich (Switzerland)

**Le Zhu**; Associate Professor; Ph.D., Cornell University

**Douglas Brusich**; Assistant Professor; Ph.D., University of Iowa

**Georgette Heyrman**; Assistant Professor; Ph.D., Northwestern University

**Carly Kibbe**; Assistant Professor; Ph.D., University of Wisconsin - Madison

**Paul R Mueller**; Assistant Professor; Ph.D., California Institute of Technology

**Setareh Khalili**; Lecturer; Master of Biotechnology, California State University - Fresno

**Sara A Wagner**; Lecturer; M.S., University of Alabama

## Human Biology Curriculum Guides

The following are curriculum guides for the four-year Human Biology degree program and is subject to change without notice. Students should consult a Human Biology program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Human Biology Major with Exercise Science Emphasis Curriculum Guide (p. 220)
- Human Biology Major with Health Science Emphasis Curriculum Guide (p. 223)
- Human Biology Major with Nutritional Sciences / Dietetics Emphasis Curriculum Guide (p. 224)
- Human Biology Major with General Emphasis Curriculum Guide (p. 222)
- Human Biology Major with Cytotechnology Emphasis Curriculum Guide (p. 219)

## Curriculum Guide: Human Biology Major with Cytotechnology Emphasis

An example: Four year plan for **Human Biology Major with Cytotechnology Emphasis**

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
ENG COMP 105	English Composition II: Composition and Rhetoric	3
MATH 104	Precalculus (if needed or First Year Seminar)	4
	Credits	17
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
HUM BIOL 204	Anatomy and Physiology	5
MATH 260	Introductory Statistics	4
General Ed		3
	Credits	17
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics	3
ENGLISH 104	Introduction to Literature	3
General Ed		3
General Ed		3
	Credits	12
<b>Spring</b>		
NUT SCI 300	Human Nutrition	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
	Credits	15

<b>Junior</b>		
<b>Fall</b>		
HUM BIOL 402	Human Physiology	3
Human Biology Upper Level Elective		3
General Ed		3
Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
Human Biology Upper Level Elective		3
General Ed		3
General Ed		3
Elective		3
Elective		3
	Credits	15
<b>Senior</b>		
<b>Fall</b>		
Cytotechnology Internship		15
	Credits	15
<b>Spring</b>		
Cytotechnology Internship		15
	Credits	15
	Total Credits	121

## Curriculum Guide: Human Biology Major with Exercise Science Emphasis

An example: Four year plan for **Human Biology Major with Exercise Science Emphasis**

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
MATH 104	Precalculus ( if needed or First Year Seminar)	4
	Credits	14
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
ENG COMP 105	English Composition II: Composition and Rhetoric	3
HUM BIOL 204	Anatomy and Physiology	5
MATH 260	Introductory Statistics	4
	Credits	17

**Sophomore****Fall**

COMM 133 or ENGLISH 104	Fundamentals of Public Address (or Modern Language) or Introduction to Literature	3
HUM BIOL 351	Kinesiology	4
HUM BIOL 116	First Aid and Emergency Care Procedures	3
General Ed		3
General Ed		3

Credits 16

**Spring**

HUM BIOL 333	Principles of Sports Physiology	3
Modern Language (if using this for requirement) or General Ed		3
General Ed		3
General Ed		3
General Ed		3
Elective		3

Credits 18

**Junior****Fall**

BIOLOGY 303 or BIOLOGY 307 or HUM BIOL 310	Genetics or Cell Biology or Human Genetics	3
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	4
Human Biology Upper Level Elective		3
General Ed		3
Elective		3

Credits 16

**Spring**

HUM BIOL 210	Prevention and Treatment of Athletic Injuries	3
NUT SCI 300	Human Nutrition	3
General Ed		3
Elective		3
Elective		3

Credits 15

**Senior****Fall**

Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
General Ed		3
Elective		3

Credits 13-14

**Spring**

Human Biology Upper Level Elective		3
Capstone		1-3
General Ed		3
Elective		3
Elective		3

Credits 13-15

Total Credits 122-125

# Curriculum Guide: Human Biology Major with General Human Biology Emphasis

An example: Four year plan for **Human Biology Major with General Human Biology Emphasis**

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
MATH 104	Precalculus (if needed or First Year Seminar)	4
	Credits	14
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
ENG COMP 105	English Composition II: Composition and Rhetoric	3
HUM BIOL 204	Anatomy and Physiology	5
MATH 260	Introductory Statistics	4
	Credits	17
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics	3
COMM 133 or ENGLISH 104	Fundamentals of Public Address (or Modern Language) or Introduction to Literature	3
General Ed		3
Elective		3
	Credits	12
<b>Spring</b>		
NUT SCI 300	Human Nutrition	3
Human Biology Upper Level Elective		3
Modern Language (if using this for requirement) or General Ed		3
General Ed		3
Elective		3
	Credits	15
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302)	4
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
Elective		3
	Credits	14-15

<b>Spring</b>			
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	4	
Human Biology Upper Level Elective		3	
General Ed		3	
Elective		3	
Elective		3	
	Credits	16	
<b>Senior</b>			
<b>Fall</b>			
Human Biology Upper Level Elective		3	
Human Biology Upper Level Lab		1-2	
General Ed		3	
General Ed		3	
Elective		3	
Elective		3	
	Credits	16-17	
<b>Spring</b>			
Human Biology Upper Level Elective		3	
Human Biology Upper Level Lab		1-2	
Capstone		1-3	
General Ed		3	
Elective		3	
Elective		3	
	Credits	14-17	
	Total Credits	118-123	

## Curriculum Guide: Human Biology Major with Health Science Emphasis

An example: Four year plan for **Human Biology Major with Health Science Emphasis**

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
MATH 104	Precalculus	4
	Credits	14
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
ENG COMP 105	English Composition II: Composition and Rhetoric	3
HUM BIOL 204	Anatomy and Physiology	5
MATH 260	Introductory Statistics	4
	Credits	17

**Sophomore**

<b>Fall</b>			
BIOLOGY 302	Principles of Microbiology	4	
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	4	
COMM 133 or ENGLISH 104	Fundamentals of Public Address (or Modern Language) or Introduction to Literature	3	
General Ed		3	
	Credits		14

<b>Spring</b>			
BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics	3	
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	4	
Modern Language (if using this for requirement) or General Ed		3	
Elective		3	
	Credits		13

<b>Junior</b>			
<b>Fall</b>			
CHEM 330	Biochemistry	3	
HUM BIOL 402	Human Physiology	3	
PHYSICS 103	Fundamentals of Physics I	5	
Human Biology Upper Level Lab		1-2	
General Ed		3	
	Credits		15-16

<b>Spring</b>			
NUT SCI 300	Human Nutrition	3	
PHYSICS 104	Fundamentals of Physics II	5	
General Ed		3	
Elective		3	
	Credits		14

<b>Senior</b>			
<b>Fall</b>			
Human Biology Upper Level Elective		3	
Human Biology Upper Level Lab		1-2	
General Ed		3	
General Ed		3	
Elective		3	
Elective		3	
	Credits		16-17

<b>Spring</b>			
Human Biology Upper Level Elective		3	
Capstone		1-3	
General Ed		3	
Elective		3	
Elective		3	
	Credits		13-15
	Total Credits		116-120

## Curriculum Guide: Human Biology Major with Nutritional Sciences/ Dietetics Emphasis

An example: Four year plan for **Human Biology Major with Nutritional Sciences/Dietetics Emphasis**

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.



120 credits necessary to graduate.

**Note: Students must have a grade of C or better in CHEM 211 and BIO 201 in order to declare their major in Nutritional Sciences/Dietetics Emphasis.**

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
MATH 104	Precalculus (if needed) or First Year Seminar)	4
	Credits	13
<b>Spring</b>		
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
ENG COMP 105	English Composition II: Composition and Rhetoric	3
HUM BIOL 204	Anatomy and Physiology	5
General Ed		3
	Credits	16
<b>Sophomore</b>		
<b>Fall</b>		
COMM 133	Fundamentals of Public Address	3
MATH 260 or COMM SCI 205	Introductory Statistics or Social Science Statistics	4
NUT SCI 300	Human Nutrition	3
PSYCH 203	Introduction to Lifespan Development	3
General Ed		3
	Credits	16
<b>Spring</b>		
CHEM 300	Bio-Organic Chemistry	3
CHEM 301	Bio-Organic Chemistry Laboratory	1
NUT SCI 201	Survey of Nutrition Related Professions	1
NUT SCI 212	Science of Food Preparation	4
General Ed		3
General Ed		3
	Credits	15
<b>Junior</b>		
<b>Fall</b>		
CHEM 330 & CHEM 331 or NUT SCI 327	Biochemistry or Nutritional Biochemistry	4
HUM BIOL 360	Exercise Physiology	3
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism	1
NUT SCI 421	Community Nutrition	4
General Ed		3
	Credits	15

<b>Spring</b>			
BIOLOGY 302	Principles of Microbiology		4
NUT SCI 312	Quantity Food Production and Service		4
NUT SCI 350	Life Cycle Nutrition		3
NUT SCI 402	Management in Dietetic Practice		3
General Ed			3
			Credits
			17
<b>Senior</b>			
<b>Fall</b>			
BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics		3
NUT SCI 485	Medical Nutrition Therapy I		3
NUT SCI 487	Nutritional Science Seminar		1
General Ed			3
General Ed			3
Elective			3
			Credits
			16
<b>Spring</b>			
NUT SCI 427	Advanced Nutrition and Metabolism		3
NUT SCI 486	Medical Nutrition Therapy II		3
General Ed			3
Elective			3
Elective			3
			Credits
			15
			Total Credits
			123

## Human Biology Major

### Area of Emphasis

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

- Health Science (p. 234)
- Exercise Science (p. 230)
- Applied Public Health (p. 226)
- Nutritional Sciences/Dietetics (p. 236)
- General Human Biology (p. 232)
- Cytotechnology (p. 228)

## Applied Public Health Emphasis

### HUMAN BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	41-44
CHEM 207	Laboratory Safety	
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	
NUT SCI 212	Science of Food Preparation	
ENG COMP 105	English Composition II: Composition and Rhetoric <sup>1</sup>	
<b>Select one (of 2) Anatomy and Physiology Options:</b>		

HUM BIOL 204 or BOTH	Anatomy and Physiology	
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
<b>MATH</b>		
MATH 104	Precalculus	
MATH 260	Introductory Statistics	
<b>Select one (of 3) options:</b> <sup>2</sup>		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
<b>OR</b>		
Any literature course, e.g., ENGLISH 104 Introduction to Literature		
<b>OR</b>		
One year of college-level foreign language		
<b>Upper-Level Courses</b>		30
<b>Required:</b>		
BIOLOGY 302	Principles of Microbiology	
HUM BIOL 322	Epidemiology	
NUT SCI 312	Quantity Food Production and Service	
NUT SCI 421	Community Nutrition	
<b>Choose one:</b>		
BIOLOGY 402	Advanced Microbiology	
HUM BIOL 427	Cancer Biology Laboratory	
<b>Choose one:</b>		
HIMT 310	Healthcare Systems and Organizations	
HIMT 360	Healthcare II: Survey of Disease & Treatments	
<b>Select one of the following (lab) courses:</b>		
BIOLOGY 304	Genetics Laboratory	
BIOLOGY 308	Cell Biology Laboratory	
BIOLOGY 322	Environmental Microbiology	
BIOLOGY 340	Comparative Anatomy of Vertebrates	
BIOLOGY 349	Comparative Physiology Laboratory	
BIOLOGY 408	Molecular Biology Laboratory	
HUM BIOL 341	Human Anatomy Laboratory	
CHEM 331	Biochemistry Laboratory	
HUM BIOL 351	Kinesiology	
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism	
HUM BIOL 403	Human Physiology Laboratory	
HUM BIOL 423	Immunology Lab	
NUT SCI 329	NUTRITIONAL BIOCHEM LAB	
<b>Select one option for organic chemistry:</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>Electives, as needed, to acquire 30 credits of upper level coursework. Options to fulfill this requirement include upper level courses in Human Biology, Nutritional Science, Biology and Psychology.</b>		

Total Credits

71-74

<sup>1</sup> May be satisfied with an ACT English score of 32 or higher

# Cytotechnology Emphasis

## HUMAN BIOLOGY Major

- 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.

Code	Title	Credits
<b>Supporting Courses</b>		31-34
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
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	English Composition II: Composition and Rhetoric <sup>1</sup>	
<b>Select one (of 3) options:</b>		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
or		
Any literature course, e.g., ENGLISH 104 Introduction to Literature		
or		
One year of college-level foreign language		
<b>Select one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 204	Anatomy and Physiology	
<b>or BOTH</b>		
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
<b>Math</b>		
MATH 104	Precalculus	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		53-54
<b>Select one course from three of the four areas:</b>		
<b>Genetics</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics	
<b>Physiology</b>		
HUM BIOL 402	Human Physiology	
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	
<b>Nutrition</b>		
NUT SCI 300	Human Nutrition	
<b>Cell Biology</b>		
BIOLOGY 302 or BIOLOGY 307	Principles of Microbiology Cell Biology	
<b>Choose 6 credits of the following elective courses: <sup>2</sup></b>		
HUM BIOL 310	Human Genetics	
HUM BIOL 318	Reproductive Biology	
HUM BIOL 322	Epidemiology	
HUM BIOL 331	Science and Religion: Spirit of Inquiry	
HUM BIOL 341	Human Anatomy Laboratory	

HUM BIOL 351	Kinesiology
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism
HUM BIOL 401	Art and Science
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 426	Cancer Biology
HUM BIOL 444	Endocrinology
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 330	Biochemistry
CHEM 331	Biochemistry Laboratory
HIMT 330	Healthcare I: Terminology & Body Systems
NUT SCI 300	Human Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 486	Medical Nutrition Therapy II
(Only) ONE Psychology course may be used for upper level electives.	
PSYCH 308	Physiological Psychology
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology
<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

## HUMAN BIOLOGY Major

Code	Title	Credits
<b>First Aid/CPR Requirement (may be met with Red Cross Certification)</b>		0-3
HUM BIOL 116	First Aid and Emergency Care Procedures	
<b>Writing Requirement</b>		0-3
ENG COMP 105	English Composition II: Composition and Rhetoric	
<b>Supporting Courses</b>		27
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
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>Choose one (of 2) Anatomy and Physiology Options:</b>		
HUM BIOL 204	Anatomy and Physiology	
or BOTH		
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
MATH 260	Introductory Statistics	
HUM BIOL 210	Prevention and Treatment of Athletic Injuries	
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I Principles of Physics I	
<b>Choose one of the following 3 options:</b>		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
OR		
Any literature course, e.g., English104 Introduction to Literature		
OR		
One year of any college-level foreign language		
<b>Upper-Level Courses</b>		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	
<b>Choose one of the following courses:</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics	
<b>Organic Chemistry options</b>		
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
OR		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
<b>Laboratory Electives (choose 1 course from the following courses):</b>		
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/CHEM 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
<b>Additional Upper-Level Electives</b>	
HUM BIOL 310	Human Genetics
HUM BIOL 318	Reproductive Biology
HUM BIOL 322	Epidemiology
HUM BIOL 324	The Biology of Women
HUM BIOL 331	Science and Religion: Spirit of Inquiry
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism
HUM BIOL 401	Art and Science
HUM BIOL 402	Human Physiology
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 426	Cancer Biology
HUM BIOL 444	Endocrinology
BIOLOGY 302	Principles of Microbiology
HUM BIOL 495	Research in Human Biology
HUM BIOL 497	Internship
HUM BIOL 498	Independent Study
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 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
CHEM 303	Organic Chemistry II
CHEM 305	Organic Chemistry Laboratory II
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
HIMT 330	Healthcare I: Terminology & Body Systems
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 486	Medical Nutrition Therapy II
(Only) ONE course in Psychology may be used for upper-level electives.	
PSYCH 308	Physiological Psychology
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology

# General Human Biology Emphasis

## HUMAN BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		30-35
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
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	English Composition II: Composition and Rhetoric <sup>1</sup>	
<b>Choose one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 204	Anatomy and Physiology	
or BOTH		
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
MATH 260	Introductory Statistics	
<b>Choose one of the following 3 options:</b>		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
<b>or</b>		
Any literature course, e.g., ENGLISH 104 Introduction to Literature		
<b>or</b>		
One year of any college-level foreign language		
<b>Organic Chemistry - choose one option</b>		
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
OR		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
<b>Upper-Level Courses</b>		30-31
<b>Choose one course from three of the four areas:</b>		
<b>Genetics</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics	
<b>Physiology (one of two options)</b>		
HUM BIOL 402	Human Physiology	
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism <sup>3</sup>	
<b>Nutrition</b>		
NUT SCI 300	Human Nutrition	
<b>Cell Biology</b>		
BIOLOGY 302 or BIOLOGY 307	Principles of Microbiology Cell Biology	
<b>Laboratory Courses (need 3 upper level lab courses): <sup>2</sup></b>		
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/CHEM 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
CHEM 331	Biochemistry Laboratory
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 351	Kinesiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism
HUM BIOL 423	Immunology Lab
HUM BIOL 427	Cancer Biology Laboratory
NUT SCI 327	Nutritional Biochemistry
<b>Additional Upper-Level Electives (15 credits)</b>	
HUM BIOL 310	Human Genetics
HUM BIOL 318	Reproductive Biology
HUM BIOL 322	Epidemiology
HUM BIOL 324	The Biology of Women
HUM BIOL 331	Science and Religion: Spirit of Inquiry
HUM BIOL 333	Principles of Sports Physiology
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
HUM BIOL 402	Human Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 426	Cancer Biology
HUM BIOL 444	Endocrinology
BIOLOGY 302	Principles of Microbiology
HUM BIOL 495	Research in Human Biology
HUM BIOL 497	Internship
HUM BIOL 498	Independent Study
BIOLOGY 303	Genetics
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/CHEM 407	Molecular Biology
BIOLOGY/CHEM 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
CHEM 302	Organic Chemistry I
CHEM 303	Organic Chemistry II
CHEM 304	Organic Chemistry Laboratory I
CHEM 305	Organic Chemistry Laboratory II
CHEM 330	Biochemistry

CHEM 331	Biochemistry Laboratory
HIMT 330	Healthcare I: Terminology & Body Systems
NUT SCI 300	Human Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 486	Medical Nutrition Therapy II
(Only) ONE Psychology courses may be used toward upper-level requirements	
PSYCH 308	Physiological Psychology
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology
<hr/>	
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 one PSYCH course can be applied to the major. Minimum of three upper-level laboratory courses.

<sup>3</sup>

## Health Science Emphasis

### HUMAN BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b> <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 207	Laboratory Safety	
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	English Composition II: Composition and Rhetoric <sup>2</sup>	
<b>Choose one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 204 or BOTH	Anatomy and Physiology	
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
MATH 260	Introductory Statistics	
<b>Choose one of the following courses:</b>		
MATH 104	Precalculus	
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 3 options:</b>		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
OR		
Any literature course, e.g., ENGLISH 104 Introduction to Literature		
OR		
One year of any college-level foreign language		

## Upper-Level Courses

32-33

**Choose three of the following course options:**

BIOLOGY 303                      Genetics  
     or HUM BIOL 310              Human Genetics

BIOLOGY 307                      Cell Biology

HUM BIOL 402                      Human Physiology

NUT SCI 300                      Human Nutrition

**Required Courses**

BIOLOGY 302                      Principles of Microbiology

CHEM 302                      Organic Chemistry I  
     & CHEM 304                      and Organic Chemistry Laboratory I

CHEM 303                      Organic Chemistry II  
     & CHEM 305                      and Organic Chemistry Laboratory II

CHEM 330                      Biochemistry  
     or CHEM 311                      Analytical Chemistry

**Health Science Electives (minimum of 8 credits):****Minimum of two upper-level laboratory courses.<sup>3</sup>**

BIOLOGY 304                      Genetics Laboratory

BIOLOGY 308                      Cell Biology Laboratory

BIOLOGY 340                      Comparative Anatomy of Vertebrates

BIOLOGY 402                      Advanced Microbiology

BIOLOGY/CHEM 408              Molecular Biology Laboratory

BIOLOGY 411                      Developmental Biology Laboratory

CHEM 331                      Biochemistry Laboratory

HUM BIOL 341                      Human Anatomy Laboratory

HUM BIOL 351                      Kinesiology

HUM BIOL 361                      Human Physiology Lab - Exercise and Metabolism

HUM BIOL 403                      Human Physiology Laboratory

HUM BIOL 423                      Immunology Lab

HUM BIOL 427                      Cancer Biology Laboratory

**Additional Upper-Level Electives**

HUM BIOL 310                      Human Genetics

HUM BIOL 318                      Reproductive Biology

HUM BIOL 322                      Epidemiology

HUM BIOL 324                      The Biology of Women

HUM BIOL 331                      Science and Religion: Spirit of Inquiry

HUM BIOL 333                      Principles of Sports Physiology

HUM BIOL 360                      Exercise Physiology

HUM BIOL 401                      Art and Science

HUM BIOL 413                      Neurobiology

HUM BIOL 402                      Human Physiology

HUM BIOL 403                      Human Physiology Laboratory

HUM BIOL 422                      Immunology

HUM BIOL 426                      Cancer Biology

HUM BIOL 444                      Endocrinology

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/CHEM 407	Molecular Biology
BIOLOGY/CHEM 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
CHEM 311	Analytical Chemistry
CHEM 330	Biochemistry
BIOLOGY 411	Developmental Biology Laboratory
CHEM 331	Biochemistry Laboratory
HIMT 330	Healthcare I: Terminology & Body Systems
NUT SCI 300	Human Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 486	Medical Nutrition Therapy II
Maximum of ONE Psychology course	
PSYCH 308	Physiological Psychology (Maximum of ONE Psychology Course)
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology
<hr/>	
Total Credits	73-77

<sup>1</sup> 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.

<sup>2</sup> Satisfied with an ACT English score of 32 or higher.

<sup>3</sup> BIOLOGY 340 and BIOLOGY 402 are 4 credits each, all other courses in this list are 1 credit.

## Nutritional Sciences/Dietetics Emphasis

### HUMAN BIOLOGY Major

Note: Students must have a grade of C or better in CHEM 211 and BIO 201 in order to declare their major in Nutritional Sciences/Dietetics Emphasis.

Code	Title	Credits
<b>Supporting Courses</b>		<b>35-38</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
COMM 133	Fundamentals of Public Address	
MATH 260	Introductory Statistics	
ENG COMP 105	English Composition II: Composition and Rhetoric <sup>1</sup>	
<b>Select one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 204	Anatomy and Physiology	
or BOTH		
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
NUT SCI 201	Survey of Nutrition Related Professions	
NUT SCI 212	Science of Food Preparation	
PSYCH 102	Introduction to Psychology	
or PSYCH 203	Introduction to Lifespan Development	
<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	

**Required Upper-Level Courses**

45-46

BIOLOGY 302	Principles of Microbiology
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory
<b>Select one (of two) physiology 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 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>	
NUT SCI 327	Nutritional Biochemistry
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory
<b>Additional Courses (NOT REQUIRED) to Consider</b>	
NUT SCI 495	Research in Nutritional Science
NUT SCI 497	Internship
NUT SCI 498	Independent Study

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. 237)
- General Human Biology Emphasis (p. 238)

## Applied Human Biology Emphasis

## HUMAN BIOLOGY Minor

Code	Title	Credits
<b>Supporting Courses</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	20
CHEM 207	Laboratory Safety	
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>Select one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 204	Anatomy and Physiology	
<b>or BOTH</b>		

HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
<b>Upper-Level Courses</b>		14-16
BIOLOGY 407 & BIOLOGY 408	Molecular Biology and Molecular Biology Laboratory	
OR		
CHEM 330 & CHEM 331	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>		
Choose 7-8 credits of upper-level Biology, Chemistry, Human Biology or Nutritional Sciences courses with assistance of a faculty adviser.		
Total Credits		34-36

## General Human Biology Emphasis

### HUMAN BIOLOGY Minor

Code	Title	Credits
<b>Supporting Courses</b>		15-20
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
<b>Select one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 204	Anatomy and Physiology	
<b>or BOTH</b>		
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
<b>Select one (of 2) Chemistry options:</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	
or		
CHEM 108 & CHEM 109	Survey of General, Organic and Biochemistry and Survey of General, Organic, and Biochemistry Laboratory	
<b>Upper-Level Courses</b>		12-13
<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 402	Human Physiology	
OR		
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	
<b>Nutrition</b>		
NUT SCI 300 or NUT SCI 350	Human Nutrition Life Cycle Nutrition	
<b>Cell Biology</b>		
BIOLOGY 302	Principles of Microbiology	

or BIOLOGY 307

Cell Biology

Total Credits

27-33

## Humanities

(Bachelor of Arts)

The Humanities is designed to help students develop a greater understanding of what it means to be human through the study of history, literature, philosophy, religion, languages, world cultures and civilizations. The Humanities program 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 Humanities major offers three areas of emphasis:

- 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 **digital and public humanities emphasis**. In this track students will engage in an interdisciplinary study of the humanities with an emphasis on how we think about, and through, digital and public spaces. Students will use their training in the humanities to create digital and public humanities projects that further the public’s knowledge of culture, society, and history.
- The **world cultures emphasis**. This track leverages the power of the humanities to broaden and deepen students’ insight into the human condition through the study of other cultural perspectives with the aim of creating better informed, more empathetic and culturally proficient graduates, able to engage intelligently in world cultures and issues

The Humanities minor offers six areas of emphasis:

- One area emphasizes **world cultures**.
- Another area emphasizes **ancient and medieval studies**.
- Another area emphasizes **the environmental humanities**.
- Another area emphasizes **film and cinema studies**.
- Another area emphasizes **linguistics / teaching English as a second language**.
- Another area emphasizes **religious studies**.

While the factual content of Humanities 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 speech, writing, and new media; 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.

Designed to provide a broader understanding of interdisciplinary contexts, a major or minor in the Humanities complements other courses of study. Besides being a natural accompaniment to majors or minors in History, Philosophy, English, French, German or Spanish, as well as First Nations Studies, Arts Management, Theatre, and Women’s and Gender Studies, a degree in Humanities also enhances majors and minors in business, education, social work, the social sciences, the natural sciences, and the fine arts.

In conjunction with other courses of study, a Humanities 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 Humanities courses and the flexibility and versatility they impart help graduates succeed in today’s rapidly changing, increasingly global job market, where specific factual knowledge can quickly become outdated. The two of the most common career paths of Humanities majors are in the fields of education and business, but the skills acquired by Humanities students are applicable to nearly any career.

Students may also study abroad at other campuses across the globe and in the United States through UW-Green Bay’s participation in international exchange programs and the National Student Exchange. A wide selection of internships in the humanities and travel courses led by Humanities are another option for obtaining academic credits and completing requirements.

## Language Requirement

All Humanities 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:

- Ancient and Medieval Studies (p. 243)
- Digital and Public Humanities (p. 244)
- World Cultures (p. 245)

## Area of Emphasis

Students must complete one of the following areas of emphasis:

- Ancient and Medieval Studies (p. 247)
- Environmental Humanities (p. 248)
- Film and Cinema Studies (p. 249)
- Linguistics/Teaching English as a Second Language (p. 249)
- Religious Studies (p. 250)
- World Cultures (p. 250)

The following is only an example of a four-year degree program and is subject to change without notice. Students should consult a major program adviser to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Ancient and Medieval Emphasis (p. 241)

**Gregory S Aldrete**; Professor; Ph.D., University of Michigan

**David N Coury**; Professor; Ph.D., University of Cincinnati

**Paul Emmett**; Professor; Ph.D., University of Chicago

**Jennifer Flatt**; Professor; Ph.D., Loyola University

**Jennifer Ham**; Professor; Ph.D., Rutgers University

**Derek S Jeffreys**; Professor; Ph.D., University of Chicago

**Mark Karau**; Professor; Ph.D., Florida State University

**Rebecca A Meacham**; Professor; Ph.D., University of Cincinnati

**Cristina M Ortiz**; Professor; Ph.D., University of Cincinnati

**Charles A Rybak**; Professor; Ph.D., University of Cincinnati

**David J Voelker**; Professor; Ph.D., University of North Carolina at Chapel Hill

**Caroline S Boswell**; Associate Professor; Ph.D., Brown University, chair

**Hernan Fernandez-Meardi**; Associate Professor; Ph.D., Universite de Montreal (Canada)

**Clifton G Ganyard**; Associate Professor; Ph.D., State University of New York at Buffalo

**Stefan T Hall**; Associate Professor; Ph.D., Saint Louis University

**Daniel Kallgren**; Associate Professor; Ph.D., University of Minnesota-Twin Cities

**Hye-Kyung Kim**; Associate Professor; Ph.D., Marquette University

**John P Leary**; Associate Professor; Ph.D., University of Wisconsin - Madison

**James Vincent Lowery**; Associate Professor; Ph.D., University of Mississippi

**Ann Mattis**; Associate Professor; Ph.D., Loyola University



**Valerie Murrenus-Pilmaier**; Associate Professor; Ph.D., Marquette University

**Rebecca L Nesvet**; Associate Professor; Ph.D., University of North Carolina - Chapel Hill

**Lisa M Poupart**; Associate Professor; Ph.D., Arizona State University

**Heidi M Sherman**; Associate Professor; Ph.D., University of Minnesota

**Jessica VanSlooten**; Associate Professor; Ph.D., Auburn University

**Jennifer Young**; Assistant Professor; Ph.D., Case Western Reserve University

**Carl A Battaglia**; Senior Lecturer; Ph.D., University of Wisconsin - Madison

**Deborah A Burden**; Senior Lecturer; M.S., University of Wisconsin - Stevens Point

**Linda M Toonen**; Senior Lecturer; M.A., University of Wisconsin - Whitewater

**Forrest W Brooks**; Lecturer; M.S., University of Wisconsin - Milwaukee

**Kevin M Kain**; Lecturer; Ph.D., Western Michigan University

**Jennifer Lynn Ronsman**; Lecturer; M.F.A., Minnesota State University

## Humanities Curriculum Guides

The following is only an example of a four-year degree program and is subject to change without notice. Students should consult a major program adviser to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Ancient and Medieval Emphasis (p. 241)

## Curriculum Guide: Humanities Major with an Emphasis in Ancient and Medieval Studies

An example: Four year plan for **Humanities Major with an Emphasis in Ancient and Medieval Studies**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	3
HUM STUD 101 or HUM STUD 103	Foundations of Western Culture I or World Civilizations I	3
HUM STUD 2XX Ancient and Medieval Languages or Modern Language		3
First Year Seminar		3
General Ed		3
		Credits 15
<b>Spring</b>		
HUM STUD 102 or HUM STUD 104	Foundations of Western Culture II or World Civilizations II	3
HUM STUD 2XX Ancient and Medieval Languages or Modern Language		3
General Ed		3
General Ed		3
General Ed		3
		Credits 15

**Sophomore**

<b>Fall</b>		
HUM STUD 334	The Ancient World (or Ancient/Medieval Elective)	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
		Credits
		15

<b>Spring</b>		
HUM STUD 335	The Medieval World (or Ancient/Medieval Elective)	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
		Credits
		15

<b>Junior</b>		
<b>Fall</b>		
ENGLISH 335	Literary Eras (Ancient and/or Medieval Content or Ancient/Medieval Elective)	3
PHILOS 401	Plato and Aristotle (or Ancient/Medieval Ancient History Course)	3
Elective		3
Elective		3
Elective		3
		Credits
		15

<b>Spring</b>		
ENGLISH 333	Literary Themes (Ancient and/or Medieval Content or Ancient/Medieval Elective)	3
HUM STUD 326 or PHILOS 309	Non-Western Religions (or Ancient/Medieval Elective) or Religion and Medieval Philosophy	3
Medieval History Course		3
Elective		3
Elective		3
		Credits
		15

<b>Senior</b>		
<b>Fall</b>		
HUM STUD 480	Humanities Seminar	3
Ancient/Medieval Elective		3
Elective		3
Elective		3
Elective		3
		Credits
		15

<b>Spring</b>		
Ancient/Medieval Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
		Credits
		15
		Total Credits
		120

# Humanities Major

## Language Requirement

All Humanities 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:

- Ancient and Medieval Studies (p. 243)
- Digital and Public Humanities (p. 244)
- World Cultures (p. 245)

# Ancient and Medieval Studies Emphasis

## HUMANITIES Major

### Language Requirement

All Humanities 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.

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ENG COMP 105	English Composition II: Composition and Rhetoric	
<b>Choose one of the following courses:</b>		
HUM STUD/HISTORY 101	Foundations of Western Culture I	
HUM STUD/HISTORY 103	World Civilizations I	
<b>Choose one course from the following category:</b>		
HUM STUD/HISTORY 102	Foundations of Western Culture II	
HUM STUD/HISTORY 104	World Civilizations II	
<b>Upper-Level Courses</b>		<b>27</b>
<b>Perspectives of Human Values (choose one course from the following category)</b>		
HUM STUD 334	The Ancient World	
HUM STUD 335	The Medieval World	
HUM STUD 336	The Renaissance	
<b>Ancient History (choose one course from the following category):</b>		
HISTORY 360	Ancient Greece	
HISTORY 361	Ancient Rome	
HISTORY 420	Topics in Ancient History	
<b>Ancient and Medieval Religion and Philosophy (choose one course from the following category):</b>		
HUM STUD 323	The Hebrew Bible (Old Testament)	
HUM STUD 324	The New Testament	
HUM STUD 326	Non-Western Religions	

PHILOS 309	Religion and Medieval Philosophy
PHILOS 401	Plato and Aristotle
PHILOS 403	Topics in Philosophy (with ancient or medieval topic)
<b>Medieval History:</b>	
HISTORY 301 or HISTORY 421	The Middle Ages <sup>1</sup> Topics in Medieval History
<b>Medieval/Renaissance Literature:</b>	
ENGLISH 333 or ENGLISH 335	Literary Themes (with ancient/medieval/Renaissance topic for either course) Literary Eras
<b>Capstone Seminar</b>	
HUM STUD 480	Humanities Seminar
<b>Choose 9 credits of elective courses <sup>2</sup></b>	

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 Humanities and/or its departments.

## Digital and Public Humanities Emphasis

### 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.

Code	Title	Credits
<b>Supporting Courses:</b>		9-12
ENG COMP 105	English Composition II: Composition and Rhetoric <sup>1</sup>	
HUM STUD 100	Living the Humanities	
HUM STUD 200	Introduction to Digital and Public Humanities	
<b>Lower-Level Elective (choose one course): <sup>2</sup></b>		
100 or 200-level ENGLISH course		
100 or 200-level FNS course		
100 or 200-level HISTORY course		
100 or 200-level PHILOS course		
ARTS MGT 257	Arts in the Community	
<b>Upper-Level Courses: <sup>3</sup></b>		24
<b>Community Engagement (choose 6 credits):</b>		
ENGLISH 333	Literary Themes (topic: The Literature of Suffering))	
ENGLISH 400	English Capstone	
ENGLISH 497	Internship	
FNS 497	Internship	
HISTORY 497	Internship	
HUM STUD 320	Language and Identity	
HUM STUD 400	Humanities Practicum	

HUM STUD 497	Internship
PHILOS 497	Internship
<b>Project-based Learning (choose 6 credits):</b>	
ENGLISH 324	Sheepshead Review Practicum
ENGLISH 400	English Capstone
ENGLISH 424	Book Editing Practicum
GERMAN 425	German Translation Studies
HUM STUD 300	Intermediate Digital and Public Humanities
HUM STUD 400	Humanities Practicum
SPANISH 465	Special Topics
<b>Digital or Public Humanities Inflected courses (choose 6 credits):</b>	
ENGLISH 324	Sheepshead Review Practicum
ENGLISH 333	Literary Themes (Topic: The Literature of Suffering)
ENGLISH 400	English Capstone
ENGLISH 424	Book Editing Practicum
ENGLISH 431	Shakespeare
ENGLISH 436	Major Author(s) (Topic: Toni Morrison)
ENGLISH 497	Internship
FNS 497	Internship
HISTORY 301	The Middle Ages
HISTORY 302	Problems in American Thought (Topic: Wilderness)
HISTORY 421	Topics in Medieval History
HISTORY 422	Topics in Early Modern European History
HISTORY 470	Studies in Comparative History (Topic: The French and Haitian Revolutions)
HISTORY 497	Internship
HUM STUD 300	Intermediate Digital and Public Humanities
HUM STUD 400	Humanities Practicum
HUM STUD 497	Internship
PHILOS 497	Internship
<b>Electives (choose 3 credits):</b>	
300 or 400-level ENGLISH course	
300 or 400-level GERMAN course	
300 or 400-level HISTORY course	
300 or 400-level HUM STUD course	
300 or 400-level PHILOS course	
300 or 400-level SPANISH course	
<b>Capstone:</b>	
HUM STUD 400	Humanities Practicum

Total Credits

33-36

- <sup>1</sup> Satisfied for students with ACT English score of 32 or higher
- <sup>2</sup> excluding any First Year Seminar
- <sup>3</sup> Courses may not be used to fulfill more than one requirement in the major. You may take the Humanities Practicum more than once if the topic is different. Students may have up to two internships.

## World Cultures Emphasis

### Language Requirement

All Humanities 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.

Code	Title	Credits
<b>Supporting Courses</b>		12
ENG COMP 105	English Composition II: Composition and Rhetoric	
<b>Choose one of the following courses:</b>		
HUM STUD 100 or HUM STUD 201	Living the Humanities Introduction to the Humanities	
<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	
ENGLISH 218	World Literatures	
ENGLISH 219	World Literatures II	
PHILOS 101	Introduction to Philosophy	
<b>Foreign Language Requirement*</b>		
<b>Choose one of the following courses:</b>		
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	
HISTORY 207	Introduction to African-American History	
ENGLISH 206	Women in Literature	
PHILOS 216	Introduction to Asian Philosophy	
<b>Upper-Level Courses</b>		24
<b>Category 1: Global Encounters (6 credits) (At least one course must be a HUM STUD course)</b>		
HUM STUD 383	Contemporary Cultural Issues	
HUM STUD 360	Globalization and Cultural Conflict	
FNS 372	Indigenous Nations Oral and Storytelling Traditions	
HISTORY 309	United States Immigration History	
FNS 385	First Nations Intellectual Traditions	
SPANISH 357	Cultura Latina	
SPANISH 329	Representative Spanish and Latin American Authors	
SPANISH 351	Major Spanish and Latin American Fiction	
SPANISH 355	Spanish and Latin American Cinema	
FRENCH 355	Le Monde Francophone	
HISTORY 470	Studies in Comparative History	
ENGLISH 338	World Literatures	
<b>Category II: Western Cultures (6 credits) (At least one course must be a HUM STUD course)</b>		
HUM STUD 323	The Hebrew Bible (Old Testament)	
HUM STUD 324	The New Testament	
HUM STUD 333	Utopia and Dystopia	
HUM STUD 334	The Ancient World	
HUM STUD 335	The Medieval World	
HUM STUD 336	The Renaissance	
HUM STUD 337	The Age of Reason	
HUM STUD 350	Interdisciplinary Study of Great Works (Dante)	
HUM STUD 351	Interdisciplinary Themes in Humanities (Western Topic)	
HUM STUD/GERMAN 356	German Culture	
HUM STUD/GERMAN 357	German Cinema	
GERMAN 329	Representative German Authors	

SPANISH 360	Spain Today
SPANISH 361	The Cultures of Spain
FRENCH 329	Representative French Authors
FRENCH 354	France Today
HISTORY 422	Topics in Early Modern European History (Crime and Mentalities)
ENGLISH 344	African American Literature
ENGLISH 331	Major American Prose Fiction
ENGLISH 431	Shakespeare
ENGLISH 322	Major Poetry
<b>Category III: Cultures Outside the West (6 credits) (At least one course must be a HUM STUD course)</b>	
HUM STUD 384	Topics in World Cultures
FNS 385	First Nations Intellectual Traditions
HUM STUD 326	Non-Western Religions
HUM STUD 352	Literatures in Translation
HISTORY 356	History of Modern Africa
DJS 363	Topics in Democracy and Justice (South Africa Topic)
<b>Humanities in Action Capstone Experience (3 credits)</b>	
HUM STUD 480	Humanities Seminar
HUM STUD 497	Internship (with advisor permission)
HUM STUD 499	Travel Course
or ENGLISH 499	Travel Course
or FRENCH 499	Travel Course
or GERMAN 499	Travel Course
or HISTORY 499	Travel Course
or PHILOS 499	Travel Course
or SPANISH 499	Travel Course
<b>Elective Course (choose 3 credits) <sup>1</sup></b>	

Total Credits

36

<sup>1</sup> Choose any course listed above that does not fulfill another requirement

## HUMANITIES Major

## Humanities Minors

### Area of Emphasis

Students must complete one of the following areas of emphasis:

- Ancient and Medieval Studies (p. 247)
- Environmental Humanities (p. 248)
- Film and Cinema Studies (p. 249)
- Linguistics/Teaching English as a Second Language (p. 249)
- Religious Studies (p. 250)
- World Cultures (p. 250)

## Ancient and Medieval Studies Emphasis

## HUMANITIES Minor

Code	Title	Credits
<b>Supporting Courses</b>		
<b>Choose one of the following:</b>		
HUM STUD/HISTORY 101	Foundations of Western Culture I	6

HUM STUD/HISTORY 103	World Civilizations I	
<b>Choose one of the following:</b>		
HUM STUD/HISTORY 102	Foundations of Western Culture II	
HUM STUD/HISTORY 104	World Civilizations II	
<b>Upper Level Courses (Four courses from at least two different prefixes)</b>		<b>12</b>
<b>Choose a minimum of one course with an Ancient topic from the following:</b>		
HUM STUD 334	The Ancient World	
HUM STUD 350	Interdisciplinary Study of Great Works (with Ancient topic)	
HUM STUD 351	Interdisciplinary Themes in Humanities (with Ancient topic)	
HISTORY 360	Ancient Greece	
HISTORY 361	Ancient Rome	
HISTORY 420	Topics in Ancient History	
HUM STUD 323	The Hebrew Bible (Old Testament)	
HUM STUD 324	The New Testament	
PHILOS 401	Plato and Aristotle	
PHILOS 403	Topics in Philosophy (with Ancient topic)	
ENGLISH 333	Literary Themes (with Ancient topic)	
ENGLISH 335	Literary Eras (with Ancient topic)	
<b>Choose a minimum of one course with a Medieval or Renaissance topic from the following:</b>		
HUM STUD 335	The Medieval World	
HUM STUD 336	The Renaissance	
HUM STUD 350	Interdisciplinary Study of Great Works (with Medieval or Renaissance topic)	
HUM STUD 351	Interdisciplinary Themes in Humanities (with Medieval or Renaissance topic)	
HISTORY 301	The Middle Ages	
HISTORY 421	Topics in Medieval History	
PHILOS 309	Religion and Medieval Philosophy	
PHILOS 403	Topics in Philosophy (with Medieval or Renaissance topic)	
ENGLISH 333	Literary Themes (with Medieval or Renaissance topic)	
ENGLISH 335	Literary Eras (with Medieval or Renaissance topic)	
Total Credits		<b>18</b>

## Environmental Humanities Emphasis

### HUMANITIES Minor

Code	Title	Credits
<b>Supporting Courses: Choose three of the following</b>		<b>9</b>
HUM STUD 100	Living the Humanities (topic: Humans and Nature)	
FNS 224	First Nations and The Sacred	
HISTORY 220	American Environmental History	
PHILOS 220	Environmental Ethics	
<b>Upper-Level Courses</b>		<b>12</b>
HUM STUD 370	Sustainability through the Humanities	
<b>Choose three of the following courses:</b>		
ENGLISH 333	Literary Themes (Topic: Environmental Literature)	
FNS 360	Women and Gender in First Nations Communities	
HISTORY 302	Problems in American Thought (Topic: Wilderness)	
PHILOS 308	Philosophy and the Sciences	
Total Credits		<b>21</b>



## Film and Cinema Studies Emphasis

### HUMANITIES Minor

Code	Title	Credits
<b>Supporting Courses</b>		12
<b>Choose 4 courses:</b>		
HUM STUD 110	Introduction to Film	
HUM STUD 210	Film and Society	
FNS 210	American Indians In Film	
ARTS MGT 257	Arts in the Community	
THEATRE 131	Acting I	
THEATRE 231	Acting II	
THEATRE 233	Voice for the Actor I	
<b>Upper Level Courses</b>		15
<b>Choose 6 credits:</b>		
GERMAN 357	German Cinema	
SPANISH 355	Spanish and Latin American Cinema	
FNS 372	Indigenous Nations Oral and Storytelling Traditions	
<b>Choose 6 credits:</b>		
ENGLISH 312	Topics in Creative Writing	
DESIGN 433	Advanced Studio	
COMM 307	Video Production	
THEATRE 351	Directing I	
<b>Choose 3 credits: Internship</b>		
HUM STUD 497	Internship (Approved Film Studies related internship)	
THEATRE 497	Internship (Approved Film Studies related internship)	
DESIGN 497	Internship (Approved Film Studies related internship)	
Total Credits		27

## Linguistics/Teaching English as a Second Language

### HUMANITIES Minor

Code	Title	Credits
<b>Supporting Courses</b>		9
HUM STUD 160	Introduction to Language	
<b>One year of a non-English language or equivalent proficiency</b>		
<b>Upper-Level Courses</b>		12
EDUC 315/515	Teaching English as a Second Language <sup>2</sup>	
HUM STUD 319/519	Second Language Acquisition & Assessment <sup>2</sup>	
HUM STUD 320/520	Language and Identity <sup>2</sup>	
HUM STUD 321/521	Sociolinguistics <sup>2</sup>	
<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 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.
- <sup>2</sup> Undergraduate students must be granted permission to enroll in graduate coursework. For more information, refer to the graduate catalog (<http://catalog.uwgb.edu/graduate/general-information/graduate-course-information>).

## Religious Studies Emphasis

### HUMANITIES Minor

Code	Title	Credits
<b>Lower-level requirements:</b>		6
PHILOS 217	Introduction to the Philosophy of Religion	
<b>Choose one elective:</b>		
FNS 224	First Nations and The Sacred *	
PHILOS 212	Philosophy, Religion, and Science	
PHILOS 213	Ancient Philosophy	
PHILOS 216	Introduction to Asian Philosophy *	
<b>Upper-level requirements:</b>		12
<b>Choose one biblical literature:</b>		
HUM STUD 323	The Hebrew Bible (Old Testament)	
HUM STUD 324	The New Testament	
<b>Choose three electives:</b>		
ENGLISH 333	Literary Themes	
HISTORY 337	The Rise of Islamic Civilization to 1800 *	
HUM STUD 323	The Hebrew Bible (Old Testament)	
HUM STUD 324	The New Testament	
HUM STUD 326	Non-Western Religions *	
HUM STUD 351	Interdisciplinary Themes in Humanities	
HUM STUD 327	Religion and the Social Order	
PHILOS 309	Religion and Medieval Philosophy	
Total Credits		18

\* **World religion criteria:** One (1) elective must be a world religion course, marked by the asterisk(\*)

## World Cultures Emphasis

### HUMANITIES Minor

Code	Title	Credits
<b>Supporting Courses</b>		12
ENG COMP 105	English Composition II: Composition and Rhetoric	
<b>Choose one of the following courses:</b>		
HUM STUD 100	Living the Humanities	
or HUM STUD 201	Introduction to the Humanities	
<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	
ENGLISH 218	World Literatures	
ENGLISH 219	World Literatures II	
PHILOS 101	Introduction to Philosophy	

**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
HISTORY 207	Introduction to African-American History
ENGLISH 206	Women in Literature
PHILOS 216	Introduction to Asian Philosophy

**Upper-Level Courses (At least one course must be a HUM STUD course)**

12

**Category 1: Global Encounters (3 credits)**

HUM STUD 383	Contemporary Cultural Issues
HUM STUD 360	Globalization and Cultural Conflict
HISTORY 309	United States Immigration History
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 385	First Nations Intellectual Traditions
SPANISH 357	Cultura Latina
SPANISH 329	Representative Spanish and Latin American Authors
SPANISH 351	Major Spanish and Latin American Fiction
SPANISH 355	Spanish and Latin American Cinema
FRENCH 355	Le Monde Francophone
HISTORY 470	Studies in Comparative History
ENGLISH 338	World Literatures

**Category II: Western Cultures (3 credits)**

HUM STUD 323	The Hebrew Bible (Old Testament)
HUM STUD 324	The New Testament
HUM STUD 333	Utopia and Dystopia
HUM STUD 334	The Ancient World
HUM STUD 335	The Medieval World
HUM STUD 336	The Renaissance
HUM STUD 337	The Age of Reason
HUM STUD 350	Interdisciplinary Study of Great Works (Dante)
HUM STUD 351	Interdisciplinary Themes in Humanities (Western Topic)
HUM STUD/GERMAN 356	German Culture
HUM STUD/GERMAN 357	German Cinema
GERMAN 329	Representative German Authors
SPANISH 360	Spain Today
SPANISH 361	The Cultures of Spain
FRENCH 329	Representative French Authors
FRENCH 354	France Today
HISTORY 422	Topics in Early Modern European History (Crime & Mentalities Topic)
ENGLISH 344	African American Literature
ENGLISH 431	Shakespeare
ENGLISH 331	Major American Prose Fiction
ENGLISH 322	Major Poetry

**Category III: Cultures Outside the West (3 credits)**

HUM STUD 384	Topics in World Cultures
FNS 385	First Nations Intellectual Traditions
HUM STUD 326	Non-Western Religions
HUM STUD 352	Literatures in Translation
HISTORY 356	History of Modern Africa
DJS 363	Topics in Democracy and Justice (South Africa Topic)

**Elective Course (choose 3 credits)**

Choose any course listed above that does not fulfill another requirement OR

HUM STUD 497	Internship (with advisor permission)
HUM STUD 499	Travel Course
or ENGLISH 499	Travel Course
or FRENCH 499	Travel Course
or GERMAN 499	Travel Course
or HISTORY 499	Travel Course
or PHILOS 499	Travel Course
or SPANISH 499	Travel Course

Total Credits

24

## Individual Major

(Bachelor of Arts or Bachelor of Science)

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 Arts, Humanities, and Social 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 Arts, Humanities, and Social Sciences. (<http://catalog.uwgb.edu/undergraduate/programs/individual-major/%20https://www.uwgb.edu/UWGBCMS/media/cahss/files/pdf/Individual-Major.pdf>)

**Kathleen C Burns**; Associate Professor; Ph.D., University of Massachusetts

## Information Sciences

(Bachelor of Science)

The Information Science (IS) program introduces students to complex information problems topics faced in the knowledge economy. Students will learn essential qualitative and quantitative skills demanded by employers in a digital media environment. Beyond these essential practical skills, students are taught the interpersonal and managerial skills needed to collaborate and coordinate among external stakeholders to achieve a common goal. Internships in Information Science provide qualified students with opportunities for faculty-supervised experience in professional settings outside the classroom. A major in Information Science provides the kind of integrative knowledge that is required for professional careers in a new and emerging media environment.

There are three emphases for the major: Data Science, Game Studies, and Information Technology.

- The Data Science emphasis is focused on data tools and analytical methods. Students learn to interpret and communicate their findings through courses from the social sciences, computer science, statistics and management. In data science students are trained for deep analytical talent positions in areas such as healthcare, logistics, and insurance industries.
- The Game Studies emphasis offers a diverse range of sub-disciplines to develop students into well-rounded game professionals. Students can choose from classes in computer science, communication, psychology, art, business, and music to prepare for careers in game journalism, game studies, game ethics, programming and design.
- The Information Technology emphasis 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. Students also are expected to be thoroughly equipped with problem solving, collaborative, and presentational skills to prepare for careers in areas such as, systems analysis, human resources, marketing and sales.

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:

- Data Science (p. 254)
- Game Studies (p. 255)
- Information Technology (p. 255)

The following is only an example of a four-year Information Sciences degree program and is subject to change without notice. Students should consult a Information Sciences program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Information Sciences Curriculum Guide (p. 253)

**Phillip G Clampitt**; Professor; Ph.D., University of Kansas, chair

**Bryan James Carr**; Associate Professor; Ph.D., University of Oklahoma

**Ankur Chattopadhyay**; Assistant Professor; Ph.D., University of Colorado at Colorado Springs

**Mary D Bina**; Senior Lecturer; B.F.A., University of Wisconsin - Milwaukee

## Information Sciences Curriculum Guide

An example: Four year plan for **Information Sciences Major** (Data Science emphasis)

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
COMM 133	Fundamentals of Public Address	3
COMP SCI 201	Introduction to Computing & Internet Technologies	3
First Year Seminar		3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Spring</b>		
COMM 205	Elements of Media	3
COMP SCI 256	Introduction to Software Design	4
INFO SCI 302	Introduction to Data Science	3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
COMM 290	Communication Problems and Research Methods	3
COMP SCI 221	Database Design & Management	3
COMP SCI 231	Introduction to IT Operations	3
General Ed		3
Elective		3
		<b>Credits</b>
		<b>15</b>

<b>Spring</b>		
COMP SCI 240	Discrete Mathematics	4
INFO SCI 308	Information Technologies	3
MATH 260	Introductory Statistics	4
General Ed		3
Elective		3
	Credits	17
<b>Junior</b>		
<b>Fall</b>		
INFO SCI 361	Introduction To Information Assurance & Security	3
General Ed		3
Elective		3
Elective		3
	Credits	12
<b>Spring</b>		
INFO SCI 410	Analytics and Information Problems	3
INFO SCI 411	Statistical Techniques and Decision Modeling	3
General Ed		3
Elective		3
Elective		3
	Credits	15
<b>Senior</b>		
<b>Fall</b>		
INFO SCI 412	Data Mining and Predictive Analytics	3
COMM, COMP SCI, or INFO SCI course		3
Elective		3
Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
COMP SCI 451	Database Systems and Big Data Processing	3
General Ed		3
Elective		3
Capstone		1-4
Elective		3
	Credits	13-16
	Total Credits	118-121

## Information Sciences Major

### Area of Emphasis

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

- Data Science (p. 254)
- Game Studies (p. 255)
- Information Technology (p. 255)

### Data Science Emphasis

Code	Title	Credits
<b>Supporting Courses</b>		
COMP SCI 201	Introduction to Computing & Internet Technologies	24
COMP SCI 221	Database Design & Management	
COMP SCI 231	Introduction to IT Operations	

COMP SCI 256	Introduction to Software Design	
COMM 133 or COMM 237	Fundamentals of Public Address Small Group Communication	
COMM 290	Communication Problems and Research Methods	
MATH 260	Introductory Statistics	
<b>Upper-level Courses</b>		<b>27</b>
INFO SCI 302	Introduction to Data Science	
INFO SCI 308	Information Technologies	
INFO SCI 361	Introduction To Information Assurance & Security	
INFO SCI 410	Analytics and Information Problems	
INFO SCI 412	Data Mining and Predictive Analytics	
COMP SCI 372	Software Engineering	
COMP SCI 451	Database Systems and Big Data Processing	
2 Elective Courses - Six additional credits at the upper level in COMM, COMP SCI, or INFO SCI		
Total Credits		51

## Game Studies Emphasis

### INFORMATION SCIENCES Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>24</b>
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 221	Database Design & Management	
COMP SCI 231	Introduction to IT Operations	
COMP SCI 256	Introduction to Software Design	
COMM 133 or COMM 237	Fundamentals of Public Address Small Group Communication	
COMM 290	Communication Problems and Research Methods	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>28</b>
COMM/INFO SCI 308	Information Technologies	
INFO SCI 341	Survey of Gaming and Interactive Media	
INFO SCI 342	Game Design	
COMP SCI 316	Advanced Software Design	
COMP SCI 464	Artificial Intelligence	
COMP SCI 474	Game Engines	
3 Elective Courses - 9 additional credits at the upper level in COMM, COMP SCI or INFO SCI		
Total Credits		52

## Information Technology Emphasis

### INFORMATION SCIENCES Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>24</b>
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 221	Database Design & Management	
COMP SCI 231	Introduction to IT Operations	
COMP SCI 256	Introduction to Software Design	
COMM 133 or COMM 237	Fundamentals of Public Address Small Group Communication	
COMM 290	Communication Problems and Research Methods	

MATH 260	Introductory Statistics	
<b>Upper Level Courses</b>		<b>28</b>
INFO SCI 302	Introduction to Data Science	
INFO SCI/COMM 308	Information Technologies	
INFO SCI 361	Introduction To Information Assurance & Security	
INFO SCI 410	Analytics and Information Problems	
INFO SCI/COMM 430	Information, Media and Society	
COMP SCI 316	Advanced Software Design	
COMP SCI 358	Data Communication and Computer Networks	
<b>2 Elective Courses (choose 6 credits):</b>		
Six credits should be from upper-level courses in COMM, COMP SCI, or INFO SCI		
Total Credits		<b>52</b>

## Mathematics & Statistics

(Bachelor of Science)

The Mathematics discipline has programs of study in two emphasis areas: mathematics and statistics.

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 Calculus and Analytic Geometry II (MATH 203). Upon earning a "C" or better in MATH 203, an additional four credits are granted for MATH 202.

Credits for calculus at UW-Green Bay may also be awarded for satisfactory performance on an AP exam. More details are available at [https://www.uwgb.edu/otsa/credit-for-prior-learning/advanced-placement-\(ap\)-program/](https://www.uwgb.edu/otsa/credit-for-prior-learning/advanced-placement-(ap)-program/).

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 MATH 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 often choose an additional minor. Examples are Environmental Science or Business Administration.

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

## Area of Emphasis

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

- Mathematics Emphasis (p. 260)
- Statistics Emphasis (p. 260)
- Actuarial Science Minor (p. 261)
- Mathematics Minor: Students must complete requirements in one of the following areas of emphasis:
  - Mathematics Emphasis (p. 261)
  - Statistics Emphasis (p. 262)

The following are only examples of four-year Mathematics degree programs and are subject to change without notice. Students should consult a Mathematics program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.



- Mathematics Emphasis (p. 257)
- Statistics Emphasis (p. 258)

**Woo Jeon**; Professor; Ph.D., University of Wisconsin - Madison, chair

**Devin Bickner**; Associate Professor; Ph.D., Iowa State University

**Megan J Olson-Hunt**; Associate Professor; Ph.D., University of Pittsburgh

**Megumi Onoda**; Associate Professor; M.S., Southeastern Louisiana University

**Yongjun Yang**; Associate Professor; Ph.D., Colorado School of Mines

**Laxmi Chataut**; Assistant Professor; Ph.D., University of Alabama

**Tetyana Malysheva**; Assistant Professor; Ph.D., University of Oklahoma

**Mark Norfleet**; Assistant Professor; Ph.D., University of Texas-Austin

**Theresa E Adsit**; Senior Lecturer; M.S., University of Wisconsin - Milwaukee

**Mary E Guy**; Senior Lecturer; M.S., University of Wisconsin - Oshkosh

**James M Meyer**; Senior Lecturer; Ph.D., University of North Carolina

## Mathematics & Statistics Curriculum Guides

The following are only examples of four-year Mathematics degree programs and are subject to change without notice. Students should consult a Mathematics program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Mathematics Emphasis (p. 257)
- Statistics Emphasis (p. 258)

## Curriculum Guide: Mathematics Major with Mathematics Emphasis

An example: Four year plan for **Mathematics Major with Mathematics Emphasis**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
MATH 202	Calculus and Analytic Geometry I	4
First Year Seminar		3
General Ed		3
General Ed		3
Elective		3
		Credits
		16
<b>Spring</b>		
MATH 203	Calculus and Analytic Geometry II	4
MATH 260	Introductory Statistics	4
General Ed		3
General Ed		3
Elective		3
		Credits
		17
<b>Sophomore</b>		
<b>Fall</b>		
MATH 209	Multivariate Calculus	4
General Ed		3
General Ed		3
Elective		3
		Credits
		13

<b>Spring</b>		
MATH 314	Proofs in Number Theory and Topology	3
General Ed		3
Elective		3
Elective		3
Elective		3
		Credits
		15
<b>Junior</b>		
<b>Fall</b>		
MATH 305	Ordinary Differential Equations	4
MATH 320	Linear Algebra and Matrix Theory	4
General Ed		3
Elective		3
Elective		3
		Credits
		17
<b>Spring</b>		
MATH 328	Introduction to Algebraic Structures	3
General Ed		3
Elective		3
Elective		3
Elective		3
		Credits
		15
<b>Senior</b>		
<b>Fall</b>		
MATH 323	Analysis	4
Elective		3
Elective		3
Elective		3
Elective		3
		Credits
		16
<b>Spring</b>		
MATH 385	Foundations of Geometry	3
MATH 355	Applied Mathematical Optimization	3
Math Upper Level Elective		3
Elective		3
Elective		3
		Credits
		15
		Total Credits
		124

## Curriculum Guide: Mathematics Major with Statistics Emphasis

An example: Four year plan for **Mathematics Major with Statistics Emphasis**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
MATH 202	Calculus and Analytic Geometry I	4
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		3
		Credits
		16
<b>Spring</b>		
MATH 203	Calculus and Analytic Geometry II	4

MATH 260	Introductory Statistics	4
General Ed		3
General Ed		3
Elective		3
Credits		17
<b>Sophomore</b>		
<b>Fall</b>		
MATH 209	Multivariate Calculus	4
MATH 320	Linear Algebra and Matrix Theory	4
General Ed		3
General Ed		3
Elective		3
Credits		17
<b>Spring</b>		
MATH 314	Proofs in Number Theory and Topology	3
General Ed		3
Elective		3
Elective		3
Elective		3
Credits		15
<b>Junior</b>		
<b>Fall</b>		
MATH 323	Analysis	4
General Ed		3
General Ed		3
Elective		3
Elective		3
Credits		16
<b>Spring</b>		
MATH 355	Applied Mathematical Optimization	3
General Ed		3
Elective		3
Elective		3
Elective		3
Credits		15
<b>Senior</b>		
<b>Fall</b>		
MATH 329	Applied Regression Analysis	4
MATH 360	Theory of Probability	3
Elective		3
Elective		3
Elective		3
Credits		16
<b>Spring</b>		
MATH 361	Mathematical Statistics	3
Math Upper Level Elective		3
Elective		3
Elective		3
Elective		3
Credits		15
Total Credits		127

## Mathematics Major

### Area of Emphasis

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

- Mathematics Emphasis (p. 260)
- Statistics Emphasis (p. 260)

## Mathematics Emphasis

### MATHEMATICS Major

Code	Title	Credits
<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 and Matrix Theory	
MATH 323	Analysis	
MATH 328	Introduction to Algebraic Structures	
MATH 355	Applied Mathematical Optimization	
MATH 385	Foundations of Geometry	
<b>Elective Courses (choose one of the following):</b>		
MATH 410	Complex Analysis	
MATH 425	Dynamical Systems	
MATH 492	Special Topics in Mathematics	
Total Credits		45

## Statistics Emphasis

### MATHEMATICS Major

Code	Title	Credits
<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 and Matrix Theory	
MATH 323	Analysis	
MATH 329	Applied Regression Analysis	
MATH 360	Theory of Probability	
MATH 355	Applied Mathematical Optimization	
MATH 361	Mathematical Statistics	
<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 Minors

- Actuarial Science Minor (p. 261)
- Mathematics Minor: Students must complete requirements in one of the following areas of emphasis:
  - Mathematics Emphasis (p. 261)
  - Statistics Emphasis (p. 262)

## Actuarial Science Minor

Code	Title	Credits
<b>Supporting Courses:</b>		<b>26</b>
ACCTG 201	Principles of Financial Accounting	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
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>		<b>9</b>
FIN 343	Corporation Finance	
MATH 360	Theory of Probability	
MATH 361	Mathematical Statistics	
Total Credits		<b>35</b>

## Mathematics Emphasis

### MATHEMATICS Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>16</b>
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>		<b>10-12</b>
MATH 320	Linear Algebra and Matrix Theory	
<b>Elective Courses (choose at least 2 courses of the following):</b>		
MATH 305	Ordinary Differential Equations	
MATH 314	Proofs in Number Theory and Topology	
MATH 323	Analysis	
MATH 328	Introduction to Algebraic Structures	
MATH 355	Applied Mathematical Optimization	
MATH 385	Foundations of Geometry	
MATH 410	Complex Analysis	
MATH 425	Dynamical Systems	
MATH 492	Special Topics in Mathematics	
Total Credits		<b>26-28</b>

## Statistics Emphasis

### MATHEMATICS Minor

Code	Title	Credits
<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>		10-12
MATH 320	Linear Algebra and Matrix Theory	
<b>Elective Courses (choose at least 2 courses from the following):</b>		
MATH 329	Applied Regression Analysis	
MATH 360	Theory of Probability	
MATH 361	Mathematical Statistics	
MATH 430	Design of Experiments	
MATH 431	Multivariate Statistical Analysis	

Total Credits

26-28

## Music

(Bachelor of Music or Bachelor of Arts)

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. 157) 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 are encouraged to select 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 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 minor, which provides breadth to a 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.

The University of Wisconsin-Green Bay is accredited by the National Association of Schools of Music.

## Area of Emphasis

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

- Music Education: Pre-K-12 Instrumental and General Music (p. 267)
- Music Education: Pre-K-12 Choral and General Music (p. 265)
- Instrumental Performance (p. 264)
- Vocal Performance (p. 269)

## Area of Emphasis

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

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. 270)
- Individual Studies (p. 273)
- Jazz Studies (p. 275)

## Area of Emphasis

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

- Music Performance (p. 276)
- Music Studies (p. 277)

**Michelle McQuade-Dewhirst**; Professor; Ph.D., University of Chicago

**Sarah A Meredith**; Professor; D.M.A., University of Iowa

**Kevin J Collins**; Associate Professor; M.M., University of Texas - Austin

**Adam W Gaines**; Associate Professor; D.A., Ball State University

**Eric C Hansen**; Associate Professor; M.M., University of Kentucky

**Randall A Meder**; Associate Professor; D.M.A., University of Illinois at Urbana-Champaign, chair

**Michael Rector**; Associate Professor; D.M.A., Manhattan School of Music

**John G Salerno**; Associate Professor; D.A., University of Northern Colorado

**Courtney J Sherman**; Associate Professor; D.M.A., Arizona State University

**Christy Talbott**; Associate Professor; Ph.D., Ohio State University

**William Sallak**; Assistant Professor; D.M.A., Arizona State University

## Bachelor of Music

### Areas of Emphasis

- Music Education: Pre-K-12 Instrumental and General Music (p. 267)
- Music Education: Pre-K-12 Choral and General Music (p. 265)

- Instrumental Performance (p. 264)
- Vocal Performance (p. 269)

## Instrumental Performance

### Music Major (Bachelor of Music)

Code	Title	Credits
<b>Supporting Courses</b>		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	
<b>Keyboard Requirement:</b>		
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	
<b>First Semester Applied (2 credits):</b>		
MUS APP 101 or MUS APP 127	Keyboard Lessons 1 Instrumental Lessons 1	
<b>Second Semester Applied (2 credits):</b>		
MUS APP 102 or MUS APP 128	Keyboard Lessons 2 Instrumental Lessons 2	
<b>Third Semester Applied (2 credits):</b>		
MUS APP 201 or MUS APP 227	Keyboard Lessons 3 Instrumental Lessons 3	
<b>Fourth Semester Applied (2 credits):</b>		
MUS APP 202 or MUS APP 228	Keyboard Lessons 4 Instrumental Lessons 4	
<b>Major Ensemble (complete 4 credits):</b>		
MUS ENS 241	Bands and Orchestra	
<b>Upper-Level Courses</b>		45
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 or MUS APP 327	Keyboard Lessons 5 Instrumental Lessons 5	
<b>Sixth Semester Applied (3 credits):</b> <small>Must perform full recital</small>		
MUS APP 302 or MUS APP 328	Keyboard Lessons 6 Instrumental Lessons 6	



**Seventh Semester Applied (3 credits):**

MUS APP 401	Keyboard Lessons 7
or MUS APP 427	Instrumental Lessons 7

**Eighth Semester Applied (3 credits):** Must perform full recital

MUS APP 402	Keyboard Lessons 8
or MUS APP 428	Instrumental Lessons 8

**Major Ensemble (complete 4 credits):**

MUS ENS 441	Bands and Orchestra
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**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 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

**Music Electives (choose 6 credits):**

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

### Music Major (Bachelor of Music)

Code	Title	Credits
<b>Supporting Courses</b>		<b>31-34</b>
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 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV Advanced Keyboard Musicianship
<b>Applied Lessons (8 credits required):</b>	
MUS APP 105	Voice Lessons 1
MUS APP 106	Voice Lessons 2
MUS APP 205	Voice Lessons 3
MUS APP 206	Voice Lessons 4
<b>Major Ensemble (complete 4 credits):</b>	
MUS ENS 261	University Singers
MUS ENS 262	Concert Choir
<b>Improvisation-choose one:</b>	
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
<b>Upper-Level Courses</b>	
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 305	Diction for Singers I
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
<b>Applied Lessons (4 credits required):</b>	
MUS APP 305	Voice Lessons 5
MUS APP 306	Voice Lessons 6 <sup>Must Perform Half Recital</sup>
<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 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera Workshop
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 Workshop
MUS ENS 388	Hand Drumming Ensemble
<b>Major Ensemble (complete 2 credits):</b>	
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
<b>Upper-Level History/Theory Elective</b>	
MUSIC 423	Seminar in Music Literature
or MUSIC 453	Materials and Design

Total Credits

67-70

## Music Education: Pre-K-12 Instrumental and General Music

### Music Major (Bachelor of Music)

Code	Title	Credits
<b>Supporting Courses</b>		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	
<b>First Semester Applied (complete 2 credits):</b>		
MUS APP 101 or MUS APP 127	Keyboard Lessons 1 Instrumental Lessons 1	
<b>Second Semester Applied (complete 2 credits):</b>		
MUS APP 102 or MUS APP 128	Keyboard Lessons 2 Instrumental Lessons 2	
<b>Third Semester Applied (complete 2 credits):</b>		
MUS APP 201 or MUS APP 227	Keyboard Lessons 3 Instrumental Lessons 3	
<b>Fourth Semester Applied (complete 2 credits):</b>		
MUS APP 202	Keyboard Lessons 4	

or MUS APP 228	Instrumental Lessons 4
<b>Major Ensemble (complete a total of 4 credits):</b>	
MUS ENS 241	Bands and Orchestra
<b>Improvisation-choose one:</b>	
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
<b>Upper-Level Courses</b>	<b>36</b>
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
<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 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera Workshop
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 Workshop
MUS ENS 388	Hand Drumming Ensemble
<b>Major Ensemble (complete 2 credits):</b>	
MUS ENS 441	Bands and Orchestra
<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

### Music Major (Bachelor of Music)

Code	Title	Credits
<b>Supporting Courses</b>		<b>28</b>
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	
<b>Applied Lessons (8 credits required):</b>		
MUS APP 105	Voice Lessons 1	
MUS APP 106	Voice Lessons 2	
MUS APP 205	Voice Lessons 3	
MUS APP 206	Voice Lessons 4	
<b>Major Ensemble (complete 4 credits):</b>		
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
<b>Foreign Language Requirement</b>		
Vocal Performance student must complete 3 semesters of any combination of Italian, French and German language courses		
<b>Upper-Level Courses</b>		<b>47</b>
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	University Singers
MUS ENS 462	Concert Choir
<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 Workshop
MUS ENS 313	Keyboard Accompanying
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 366	Opera Workshop
<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

### Area of Emphasis

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

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 another major or minor and general education.

- Composition (p. 270)
- Individual Studies (p. 273)
- Jazz Studies (p. 275)

## Composition

### Music Major (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 another major or minor and general education.

Code	Title	Credits
<b>Supporting Courses</b>		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	Bands and Orchestra	
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
<b>Upper-Level Courses</b>		24
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	
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 Workshop
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 Workshop
MUS ENS 388	Hand Drumming Ensemble
MUS ENS 441	Bands and Orchestra
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
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
MUSIC 499	Travel Course



## Individual Studies

### Music Major (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 another major or minor and general education.

Code	Title	Credits
<b>Supporting Courses</b>		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	
<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	Bands and Orchestra	
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
<b>Upper-Level Courses</b>		26
MUSIC 353	Music History I	
MUSIC 354	Music History II	
MUSIC 480	Capstone Project	
<b>Music Theory and History (3 credits):</b>		
MUSIC 423 or MUSIC 453	Seminar in Music Literature Materials and Design	
<b>Minor Ensemble (complete 2 credits):</b>		
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 Workshop
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	Bands and Orchestra
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
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

## Music Major (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 another major or minor and general education.

Code	Title	Credits
<b>Supporting Courses</b>		30-31
Keyboard Requirement:		
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	Bands and Orchestra	
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
<b>Jazz Ensemble (1 credit):</b>		
MUS ENS 143	Jazz Ensemble	
MUS ENS 165	Vocal Jazz Ensemble	
<b>Upper-Level Courses</b>		25
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	Bands and Orchestra
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
<b>Jazz Ensemble (2 credits):</b>	
MUS ENS 343	Jazz Ensemble
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

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Total Credits 55-56

## Music Minor

### Area of Emphasis

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

- Music Performance (p. 276)
- Music Studies (p. 277)

## Music Performance Emphasis

### Music Minor

Code	Title	Credits
<b>Performance Courses</b>		14
<b>First Semester Applied (2 credits):</b>		
MUS APP 101	Keyboard Lessons 1	
MUS APP 105	Voice Lessons 1	
MUS APP 127	Instrumental Lessons 1	
<b>Second Semester Applied (2 credits):</b>		
MUS APP 102	Keyboard Lessons 2	
MUS APP 106	Voice Lessons 2	
MUS APP 128	Instrumental Lessons 2	
<b>Third Semester Applied (2 credits):</b>		
MUS APP 201	Keyboard Lessons 3	
MUS APP 205	Voice Lessons 3	
MUS APP 227	Instrumental Lessons 3	

<b>Fourth Semester Applied (2 credits):</b>		
MUS APP 202	Keyboard Lessons 4	
MUS APP 206	Voice Lessons 4	
MUS APP 228	Instrumental Lessons 4	
<b>Lower Level Major Ensemble (4 credits):</b>		
MUS ENS 241	Bands and Orchestra	
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
<b>Upper Level Music Ensemble (2 credits):</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 348	Collegium Musicum	
MUS ENS 350	New Music Ensemble	
MUS ENS 354	Guitar Ensemble	
MUS ENS 363	Chamber Singers	
MUS ENS 365	Vocal Jazz Ensemble	
MUS ENS 366	Opera Workshop	
MUS ENS 388	Hand Drumming Ensemble	
MUS ENS 441	Bands and Orchestra	
MUS ENS 461	University Singers	
MUS ENS 462	Concert Choir	
<b>Supporting Courses (Complete 3 credits):</b>		<b>3</b>
MUSIC 103	Music Technology Tools	
MUSIC 121	Survey of Western Music	
MUSIC 151	Music Theory I	
MUSIC 224	Popular Music Since 1955	
MUSIC/WOST 272	Women in the Performing Arts	
<b>Upper Level Courses (Complete 3 credits):</b>		<b>3</b>
MUSIC 301	Music Technology Systems	
MUSIC 305	Diction for Singers I	
MUSIC 306	Diction for Singers II	
MUSIC 333	Basic Conducting	
MUSIC 353	Music History I	
MUSIC 354	Music History II	
MUSIC 362	World Music	
MUSIC 363	Jazz History	
MUSIC/THEATRE 364	Musical Theatre History	

Total Credits

20

## Music Studies Emphasis

### Music Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>18-19</b>
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
<b>Keyboard Requirement: Complete One Set</b>	
<b>Set One</b>	
MUS APP 11	Keyboard Musicianship I
MUS APP 21	Keyboard Musicianship II
<b>Set Two</b>	
MUS APP 13	Advanced Keyboard Musicianship
<b>First Semester Applied (2 credits):</b>	
MUS APP 101	Keyboard Lessons 1
MUS APP 105	Voice Lessons 1
MUS APP 127	Instrumental Lessons 1
<b>Second Semester Applied (2 credits):</b>	
MUS APP 102	Keyboard Lessons 2
MUS APP 106	Voice Lessons 2
MUS APP 128	Instrumental Lessons 2
<b>Major Ensemble (2 credits):</b>	
MUS ENS 241	Bands and Orchestra
MUS ENS 261	University Singers
MUS ENS 262	Concert Choir
<b>Upper-Level Courses</b>	
<b>Electives (choose from the following):</b> <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 Workshop
MUS ENS 388	Hand Drumming Ensemble
MUS ENS 441	Bands and Orchestra
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir

6

Total Credits

24-25

<sup>1</sup> Students must complete a minimum of one credit of 300 or 400-level Ensemble Course

## Nursing

(Bachelor of Science in Nursing)

### Overview of the RN-BSN Program

The RN-BSN completion program 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 (ADN) 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.

## Online or On Campus- One Destination

- **Online Courses Offered through the BSN@HOME Collaborative** (for nurses residing in- or out-of-the-state of Wisconsin);
- **On-Campus 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, online via UWGB, UW Colleges, or through UW Independent Learning correspondence courses.

The online **BSN@HOME Collaborative** 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. Eligible students must have a current RN license from any state in the U.S. A practicum is arranged near the student’s home. All courses are available via the internet.

## Nurse 1-2-1

The **NURSE 1-2-1** Program is offered through the combined resources of the nursing programs at UW-Green Bay and Northeast Wisconsin Technical College (NWTC). The program provides an opportunity for high school graduates to earn a four-year Bachelor of Science Degree in Nursing (BSN) taking courses in Year 1 of the program at UW-Green Bay; Years 2 and 3 at NWTC to complete an Associate Degree in Nursing (ADN); and UW-Green Bay for Year 4 to complete the Bachelor of Science in Nursing (BSN) degree.

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/rn-bsn> and see what we have to offer. We are also happy to answer your questions through phone or e-mail.

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/>

The RN-BSN completion program 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.

## Areas of Emphasis

- RN-BSN Completion (p. 281)
- Accelerated RN-BSN Completion program integrated with graduate MSN program (p. 280)

**Susan M Gallagher-Lepak**; Professor; Ph.D., University of Wisconsin - Madison\*

**Janet E Reilly**; Associate Professor; D.N.P., Case Western Reserve University\*

**Brenda L Tyczkowski**; Associate Professor; D.N.P., University of Kansas\*

**Christine L Vandenhouten**; Associate Professor; Ph.D., Marquette University, chair\*

**Myunghee Jun**; Assistant Professor; Ph.D., Seoul National University

**Rebecca D Hovarter**; Lecturer; DNP, University of Minnesota

## RN-BSN Completion

### Areas of Emphasis

- RN-BSN Completion (p. 281)
- Accelerated RN-BSN Completion with graduate MSN Leadership program (p. 280)

## Accelerated RN-BSN

### NURSING Major

Code	Title	Credits
<b>General Education</b>		<b>18</b>
	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 407	Foundations of Professional Nursing Practice	
NURSING 441	Chronic Care Management	
NURSING 446	Research and Evidence-Based Practice <sup>4</sup>	
or NURSING 734	Evaluation and Evidence-Based Practice	
NURSING 447	Leadership and Management <sup>4</sup>	
or NURSING 737	Leadership in Complex Systems	
NURSING 453	Information Management and Healthcare Technology <sup>4</sup>	
or NURSING 760	Informatics for Nursing Leaders	
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)	
Total Credits		60

- <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.
- <sup>4</sup> Students must be granted permission to enroll in Graduate level coursework. For more information, please contact the Nursing department or refer to the Graduate catalog (<http://catalog.uwgb.edu/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated>)

## RN-BSN

### NURSING Major

Code	Title	Credits
<b>General Education</b>		18
Fine Arts		
Humanities		
Global Culture		
Ethnic Studies Perspective		
Social Sciences <sup>1</sup>		
Natural Sciences <sup>1</sup>		
<b>Nursing Support</b>		12
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</b> <sup>1</sup>		
<b>Upper-Level Nursing</b>		30
<b>Required</b>		
NURSING 407	Foundations of Professional Nursing Practice	
NURSING 441	Chronic Care Management	
NURSING 446	Research and Evidence-Based Practice	
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)	
Total Credits		60

- <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.

## Organizational Leadership

(Bachelor of Arts or Bachelor of Applied Studies)

Organizational leadership crosses disciplinary, organizational, community, and cultural boundaries and teaches students how to contribute as citizens in a complex, multi-cultural world. Graduates are well-positioned to embark on new careers or advance in their current work or graduate studies in multiple fields. The Organizational Leadership upper-level core courses (18 credits) will introduce students to the major theories and models of leadership with a focus on how we can use these theories and models to transform our leadership in practice and encourage students to develop fundamental leadership skills such as communication, human resources management, financial management, organizational applied research, and other specialized skills of your choosing.

A unique feature of the Organizational Leadership major is the choice of an emphasis which typically includes 4-5 courses in a student's desired area of focus. Areas of emphasis include Applied Communication, Business Administration, Early Childhood Education, Emergency Management, Environmental Policy and Planning, Healthcare Management, Public & Nonprofit Management, or a self-directed four-course emphasis (which must be approved by the Coordinator). In this way, students can develop important cross-cutting foundational leadership competencies while specializing in a career path through the choice of the emphasis.

The **Bachelor of Arts** degree (B.A.) is suitable for:

- Students who already have an Associate of Arts & Sciences degree
- Students who have taken a few college courses and wish to transfer in some credits
- Students who begin college and select the Organizational Leadership major as she or he starts a college career

The **Bachelor of Applied Studies** degree (B.A.S.) requires an Applied Associate Degree. Such students are promised 60 credits toward their U.W. Green Bay degree. 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 Organizational Leadership major and all other degree requirements.

## Area of Emphasis

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

- Applied Communication (p. 283)
- Business Administration (p. 283)
- Early Childhood Education (p. 284)
- Emergency Management (p. 285)
- Environmental Policy & Planning (<http://catalog.uwgb.edu/undergraduate/programs/organizational-leadership/ba/env-pp>)
- Healthcare Management (p. 286)
- Public and Nonprofit Management (<http://catalog.uwgb.edu/undergraduate/programs/organizational-leadership/ba/pnp-mgt>)
- Self-Directed (p. 287)
- Organizational Leadership minor (p. 288)

**Lora H Warner**; Associate Professor; Ph.D., Virginia Commonwealth University, chair

## Organizational Leadership Major

### Area of Emphasis

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

- Applied Communication (p. 283)
- Business Administration (p. 283)
- Early Childhood Education (p. 284)
- Emergency Management (p. 285)
- Environmental Policy & Planning (<http://catalog.uwgb.edu/undergraduate/programs/organizational-leadership/ba/env-pp>)
- Healthcare Management (p. 286)
- Public and Nonprofit Management (<http://catalog.uwgb.edu/undergraduate/programs/organizational-leadership/ba/pnp-mgt>)
- Self-Directed (p. 287)

## Applied Communication Emphasis

### ORGANIZATIONAL LEADERSHIP Major

Code	Title	Credits
<b>Supporting Courses</b>		12
ORG LEAD 198	Introduction to Leadership	
<b>Writing Course</b>		
ENG COMP 105 or COMM 185	English Composition II: Composition and Rhetoric Business and Media Writing	
<b>Communication Skills (choose 2 courses):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 185	Business and Media Writing	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		18
<b>Required Courses:</b>		
PU EN AF 344	Leadership in Organizations	
PU EN AF 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
<b>Choose one of the following:</b>		
ORG LEAD 348 or MGMT 389	Organizational Behavior Across Sectors Organizational Behavior	
<b>Applied Communication Electives:</b>		12
Choose 12 credits of 300/400-level COMM courses		
Total Credits		42

## Business Administration Emphasis

### ORGANIZATIONAL LEADERSHIP Major

Code	Title	Credits
<b>Supporting Courses</b>		12
BUS ADM 202	Business and Its Environment	
ORG LEAD 198	Introduction to Leadership	
<b>Writing Course</b>		
ENG COMP 105 or COMM 185	English Composition II: Composition and Rhetoric Business and Media Writing	
<b>Communication Skills (choose one course):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		18
<b>Required Courses:</b>		
PU EN AF 344	Leadership in Organizations	
PU EN AF 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	

<b>Choose one of the following:</b>		
ORG LEAD 348	Organizational Behavior Across Sectors	
or MGMT 389	Organizational Behavior	
<b>Business Administration Emphasis: (Choose 4 courses)</b>		12-13
BUS ADM 305	Legal Environment of Business	
BUS ADM 371	e-Entrepreneurship and Digital Management	
BUS ADM 380	Project Management	
BUS ADM 384	Supply Chain Management	
BUS ADM 481	Small Business Management & Family Entrepreneurship	
MGMT 489	Organizational Culture & Change	
MKTG 322	Introductory Marketing	
Total Credits		42-43

## Early Childhood Education Emphasis

### ORGANIZATIONAL LEADERSHIP Major

Code	Title	Credits
<b>Supporting Courses</b>		9
ORG LEAD 198	Introduction to Leadership	
<b>Writing Course</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	
or COMM 185	Business and Media Writing	
<b>Communication Skills (choose one course):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		18
<b>Required Courses:</b>		
PU EN AF 344	Leadership in Organizations	
PU EN AF 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
<b>Choose one of the following:</b>		
ORG LEAD 348	Organizational Behavior Across Sectors	
or MGMT 389	Organizational Behavior	
<b>Early Childhood Education Emphasis</b>		18
EDUC 363	Introduction to the Art and Science of Teaching in Early Childhood	
EDUC 425	The Early Years of Literacy and Language Development	
EDUC 444	Current Trends in Early Childhood Education	
PSYCH 331	Infancy and Early Childhood Development	
Elective (6 credits):		
any upper-level EDUC or HUM DEV course		
Total Credits		45

## Emergency Management Emphasis

### ORGANIZATIONAL LEADERSHIP Major

Code	Title	Credits
<b>Supporting Courses</b>		9
ORG LEAD 198	Introduction to Leadership	
<b>Writing Course</b>		
ENG COMP 105 or COMM 185	English Composition II: Composition and Rhetoric Business and Media Writing	
<b>Communication Skills (choose one course):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		18
<b>Required Courses:</b>		
PU EN AF 344	Leadership in Organizations	
PU EN AF 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
<b>Choose one of the following:</b>		
ORG LEAD 348 or MGMT 389	Organizational Behavior Across Sectors Organizational Behavior	
<b>Emergency Management Emphasis (choose 12 credits):</b>		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	
Total Credits		39

## Environmental Policy & Planning Emphasis

### Bachelor of Applied Studies (B.A.S.)

### ORGANIZATIONAL LEADERSHIP Major

Code	Title	Credits
<b>Supporting Courses:</b>		9
ORG LEAD 198	Introduction to Leadership	
PU EN AF 102	Environment and Society	
<b>Writing Course (choose one):</b>		
COMM 185 or ENG COMP 105	Business and Media Writing English Composition II: Composition and Rhetoric	
<b>Upper-Level Courses:</b>		24
ORG LEAD 400	Organizational Leadership Capstone	
<b>Critical Thinking (choose one course):</b>		
ECON 307	History of Economic Thought	
HUM DEV 424	The Development of Creative and Critical Thinking	
ORG LEAD 300	Integrative Leadership Seminar II	
PHILOS 301	Ethical Theory	

PHILOS 401	Plato and Aristotle	
<b>Environmental Policy and Planning Emphasis (Choose four courses):</b>		
PU EN AF 301	Environmental Politics and Policy	
PU EN AF 323	Sustainable Land Use	
PU EN AF 324	Transitioning to Sustainable Communities	
PU EN AF 408	Public Policy Analysis	
PU EN AF 428	Public and Nonprofit Program Evaluation	
PU EN AF 497	Internship	
<b>General Education Electives:</b>		
Choose upper-level courses from any Gen Ed category		
Total Credits		33

## Healthcare Management Emphasis

### ORGANIZATIONAL LEADERSHIP Major

Code	Title	Credits
<b>Supporting Courses</b>		9
ORG LEAD 198	Introduction to Leadership	
<b>Writing Course</b>		
ENG COMP 105 or COMM 185	English Composition II: Composition and Rhetoric Business and Media Writing	
<b>Communication Skills (choose one course):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		18
<b>Required Courses:</b>		
PU EN AF 344	Leadership in Organizations	
PU EN AF 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
<b>Choose one of the following:</b>		
ORG LEAD 348 or MGMT 389	Organizational Behavior Across Sectors Organizational Behavior	
<b>Healthcare Management Emphasis:</b>		12
HLTH MGT 301	Health Care Systems	
HLTH MGT 302	Healthcare Management	
HLTH MGT 401	Healthcare Economics & Policy	
HLTH MGT 402	Population Healthcare Management	
Total Credits		39

## Public and Nonprofit Management Emphasis

### Bachelor of Applied Studies (B.A.S.)

#### ORGANIZATIONAL LEADERSHIP Major

Code	Title	Credits
<b>Supporting Course:</b>		9
ORG LEAD 198	Introduction to Leadership	
PU EN AF 215	Introduction to Public Administration	

<b>Writing Course (choose one):</b>		
COMM 185	Business and Media Writing	
or ENG COMP 105	English Composition II: Composition and Rhetoric	
<b>Upper-Level Courses:</b>		24
ORG LEAD 400	Organizational Leadership Capstone	
<b>Critical Thinking (choose one course):</b>		
ECON 307	History of Economic Thought	
HUM DEV 424	The Development of Creative and Critical Thinking	
ORG LEAD 300	Integrative Leadership Seminar II	
PHILOS 301	Ethical Theory	
PHILOS 401	Plato and Aristotle	
<b>Public and Nonprofit Management Emphasis (choose 12 credits):</b>		
PU EN AF 315	Public and Non-Profit Management	
PU EN AF 326	Philanthropy: Civic Engagement through Giving	
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 425	Fundraising and Marketing for Nonprofits	
PU EN AF 428	Public and Nonprofit Program Evaluation	
PU EN AF 497	Internship	
<b>General Education Electives:</b>		
Choose upper-level courses from any Gen Ed category		
Total Credits		33

## Self-Directed Emphasis

### ORGANIZATIONAL LEADERSHIP Major

Code	Title	Credits
<b>Organizational Leadership Core</b>		
<b>Supporting Courses</b>		9
ORG LEAD 198	Introduction to Leadership	
<b>Writing Course</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	
or COMM 185	Business and Media Writing	
<b>Communication Skills (choose one course):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		18
<b>Required Courses:</b>		
PU EN AF 344	Leadership in Organizations	
PU EN AF 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
<b>Choose one of the following:</b>		
ORG LEAD 348	Organizational Behavior Across Sectors	
or MGMT 389	Organizational Behavior	
<b>Self-Directed Emphasis</b>		12

Choose 12 credits of 300 - 400 upper level courses approved by an adviser.

Total Credits 39

## Organizational Leadership Minor

Code	Title	Credits
<b>Supporting Courses:</b>		<b>6</b>
ORG LEAD 198	Introduction to Leadership	
<b>Choose one of the following:</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper Level Courses:</b>		<b>15</b>
PU EN AF 344	Leadership in Organizations	
PU EN AF 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 348	Organizational Behavior Across Sectors	
or MGMT 389	Organizational Behavior	

Total Credits 21

## Philosophy

(Bachelor of Arts)

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.

- Philosophy Major (p. 290)
- Philosophy Minor (p. 291)

The following is a curriculum guide for a four-year Philosophy degree program and is subject to change without notice. Students should consult a Philosophy program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.



- Philosophy Major Curriculum Guide (p. 289)

**Derek S Jeffreys**; Professor; Ph.D., University of Chicago

**David Louzecky**; Professor; Ph.D., University of Wisconsin-Madison

**Hye-Kyung Kim**; Associate Professor; Ph.D., Marquette University, chair

## Philosophy Curriculum Guide

An example: Four year plan for **Philosophy Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
PHILOS 101	Introduction to Philosophy	3
First Year Seminar		3
General Ed		3
General Ed		3
Elective		3
		Credits
		15
<b>Spring</b>		
PHILOS 213	Ancient Philosophy	3
PHILOS 214	Early Modern Philosophy	3
General Ed		3
General Ed		3
Elective		3
		Credits
		15
<b>Sophomore</b>		
<b>Fall</b>		
PHILOS 309	Religion and Medieval Philosophy	3
PHILOS 1XX or 2XX Philosophy course		3
General Ed		3
Elective		3
Elective		3
		Credits
		15
<b>Spring</b>		
PHILOS 301	Ethical Theory	3
PHILOS 308	Philosophy and the Sciences	3
General Ed		3
Elective		3
Elective		3
		Credits
		15
<b>Junior</b>		
<b>Fall</b>		
PHILOS 401	Plato and Aristotle	3
PHILOS Upper Level Elective		3
General Ed		3
Elective		3
Elective		3
		Credits
		15
<b>Spring</b>		
PHILOS 326	Philosophy, Politics and Law	3
Elective		3
Elective		3
Elective		3

Elective		3
	Credits	15
<b>Senior</b>		
<b>Fall</b>		
PHILOS 420	Metaphysics	3
General Ed		3
Elective		3
Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
PHILOS 403	Topics in Philosophy	3
General Ed		3
Elective		3
Elective		3
Elective		3
	Credits	15
	Total Credits	120

## Philosophy Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
PHILOS 213 or PHILOS 214	Ancient Philosophy 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	Is Morality for Sale?	
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	
<b>Total Credits</b>		<b>33</b>

## Philosophy Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
PHILOS 213 or PHILOS 214	Ancient Philosophy 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	Is Morality for Sale?	
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	
<b>Upper-Level Courses</b>		<b>12</b>
<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

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 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.

- Physics Minor (p. 292)

Faculty

**Heidi S FencI**; Professor; Ph.D., The Ohio State University

**Michael Hencheck**; Associate Professor; Ph.D., The Ohio State University, Chair

**Brian Welsch**; Assistant Professor; Ph.D., Montana State University

## Physics Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>18</b>
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>12</b>
PHYSICS 310	Modern Physics	
<b>Elective Courses (choose a minimum of 9 credits from the following):</b>		
CHEM 320	Thermodynamics and Kinetics	
CHEM 321	Structure of Matter	
CHEM 322	Thermodynamics and Kinetics Laboratory	
CHEM 323	Structure of Matter Laboratory	
ENV SCI 415	Solar and Alternate Energy Systems	
ET 318	Fluids II	
ET 324	Motors and Drives	
ET 348	Electromagnetic Fields and Applications	
MATH 410	Complex Analysis	
MATH 425	Dynamical Systems	
PHYSICS 404	Electricity and Magnetism	
PHYSICS 417	Nuclear Physics and Radiochemistry	
PHYSICS 420	Advanced Physics Laboratory	
Total Credits		<b>30</b>

## Political Science

(Bachelor of Arts)

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. Many students choose complimentary minors, such as 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.

- Political Science Major (p. 294)
- Political Science Minor (p. 295)

The following is only an example of a four-year Political Science degree program and is subject to change without notice. Students should consult a Political Science program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Political Science Majors with Example of a Public Administration Minor (p. 293)

**Ekaterina M Levintova**; Professor; Ph.D., Western Michigan University, chair

**Alise Coen**; Associate Professor; Ph.D., University of Delaware

**David J Helpap**; Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Alison K Staudinger**; Associate Professor; Ph.D., University of Maryland

**Aaron C Weinschenk**; Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Elizabeth E Wheat**; Associate Professor; Ph.D., Western Michigan University\*

## Political Science Curriculum Guide

An example: Four year plan for **Political Science Major; Minor in Public Administration**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
POL SCI 101	American Government and Politics	3
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		3
		Credits
		15
<b>Spring</b>		
POL SCI 100	Global Politics and Society	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
		Credits
		15
<b>Sophomore</b>		
<b>Fall</b>		
POL SCI 202	Introduction to Public Policy	3
POL SCI 340	Political Theory	3
BUS ADM 216 or COMM SCI 205 or MATH 260	Business Statistics or Social Science Statistics or Introductory Statistics	4
General Ed		3
General Ed		3
		Credits
		16
<b>Spring</b>		
POL SCI 351	Comparative Politics	3
PU EN AF 215	Introduction to Public Administration	3
General Ed		3
General Ed		3
General Ed		3
		Credits
		15
<b>Junior</b>		
<b>Fall</b>		
PU EN AF 315	Public and Non-Profit Management	3
POL SCI 318	Political Behavior	3
POL SCI 320	Constitutional Law	3

Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
POL SCI 316	Congress: Politics and Policy	3
POL SCI 370	Foreign and Defense Policies	3
POL SCI Upper Level Elective		3
Elective		3
General Ed		3
	Credits	15
<b>Senior</b>		
<b>Fall</b>		
PU EN AF 408	Public Policy Analysis	3
POL SCI Upper Level Elective (could include one counting toward Public Administration minor)		3
Elective		3
Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
POL SCI Upper Level Elective (could include one counting toward Public Administration minor)		3
Elective		3
Elective		3
Elective		3
Elective		3
	Credits	15
	<b>Total Credits</b>	<b>121</b>

## Political Science Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>13</b>
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	
<b>Upper-Level Courses</b>		<b>24</b>
<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	
<b>Choose 12 additional credits from the following list, not taken above:</b>		
DJS 325	Law and Society	
DJS/WOST 348	Gender and the Law	
GERMAN 358	German Politics and Society	

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

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
<b>Choose two of the following:</b>		
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	
<b>Upper-Level Courses</b>		<b>12</b>
<b>Choose four of the following:</b>		
DJS/WOST 348	Gender and the Law	
GERMAN 358	German Politics and Society	
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

## Psychology

(Bachelor of Science)

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 to that of society. 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; or (3) Culture and Gender Diversity. However, students are not required to have an emphasis and should speak with a Psychology advisor 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 advisor. Those students who elect to have an emphasis should still meet frequently with an advisor 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.

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 advisor.

This major requires completion of one of the following areas of emphasis:

- Brain, Behavior and Health Emphasis (p. 298)
- Development Emphasis (p. 300)
- General Psychology Emphasis (p. 301)<sup>1</sup>
- Mental Health Emphasis (p. 302)

<sup>1</sup> If students do not select an emphasis, they will complete the General Emphasis. The General Emphasis is only for students who do not have an additional area of emphasis. If a student selects Mental Health, Development, or Brain/Behavior/Health, they will not be in the General Emphasis. Students can select two areas of emphasis, but the General Emphasis cannot be one of them.

- Psychology Minor (p. 303)

The following is only an example of a four-year Psychology degree program and is subject to change without notice. Students should consult a Psychology program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.



- Psychology Major Curriculum Guide (p. 297)

**Stacie Christian**; Associate Lecturer; M.S., University of Wisconsin - Green Bay

**Albert Bugaj**; Professor; Ph.D., Purdue University

**Illene N Cupit**; Professor; Ph.D., Temple University

**Ryan C Martin**; Professor; Ph.D., University of Southern Mississippi, chair

**Dean D VonDras**; Professor; Ph.D., Washington University in St. Louis

**Georjeanna J Wilson-Doenges**; Professor; Ph.D., University of California - Irvine

**Kathleen C Burns**; Associate Professor; Ph.D., University of Massachusetts

**Jenell L Holstead**; Associate Professor; Ph.D., University of Indiana

**Sawa Senzaki**; Associate Professor; Ph.D., University of Alberta

**Christine A Smith**; Associate Professor; Ph.D., University of Pittsburgh

**Kristin M Vespia**; Associate Professor; Ph.D., University of Iowa

**Jason Cowell**; Assistant Professor; Ph.D., University of Minnesota

**Jana Fogaca**; Assistant Professor; Ph.D., West Virginia University

## Psychology Curriculum Guide

An example: Four year plan for **Psychology Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
PSYCH 102	Introduction to Psychology	3
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Spring</b>		
HUM BIOL 102	Introduction to Human Biology	3
Interdisciplinary Minor		3
General Ed		3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
COMM SCI 205	Social Science Statistics	4
PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course		3
Interdisciplinary Minor		3
General Ed		3
General Ed		3
		<b>Credits</b>
		<b>16</b>
<b>Spring</b>		
PSYCH 300	Research Methods in Psychology	4
PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course		3
Interdisciplinary Minor		3
General Ed		3

General Ed		3
	Credits	16
<b>Junior</b>		
<b>Fall</b>		
PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course		3
PSYCH 3XX/4XX Elective		3
Interdisciplinary Minor		3
Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course		3
PSYCH 3XX/4XX Elective		3
Interdisciplinary Minor		3
Elective		3
Elective		3
	Credits	15
<b>Senior</b>		
<b>Fall</b>		
PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course		3
PSYCH 495 or PSYCH 496 or PSYCH 497	Teaching Assistantship or Research Assistantship or Internship	3
Interdisciplinary Minor		3
Elective		3
Elective		3
	Credits	15
<b>Spring</b>		
PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course		3
PSYCH 495 or PSYCH 496 or PSYCH 497	Teaching Assistantship or Research Assistantship or Internship	3
Elective		3
Elective		3
Elective		3
	Credits	15
	Total Credits	122

## Psychology Major

This major requires completion of one of the following areas of emphasis:

- Brain, Behavior and Health Emphasis (p. 298)
- Development Emphasis (p. 300)
- General Psychology Emphasis (p. 301)<sup>1</sup>
- Mental Health Emphasis (p. 302)

<sup>1</sup> If students do not select an emphasis, they will complete the General Emphasis. The General Emphasis is only for students who do not have an additional area of emphasis. If a student selects Mental Health, Development, or Brain/Behavior/Health, they will not be in the General Emphasis. Students can select two areas of emphasis, but the General Emphasis cannot be one of them.

## Brain, Behavior and Health Emphasis

### PSYCHOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		13-14
PSYCH 102	Introduction to Psychology	
PSYCH 203	Introduction to Lifespan Development	

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
<b>Upper-Level Courses</b>	<b>28</b>
PSYCH 300	Research Methods in Psychology
<b>Core Courses</b>	
<b>Social/Personality (choose one of the following):</b>	
PSYCH 330	Social Psychology
PSYCH 429	Theories of Personality
<b>Culture/Gender (choose one of the following):</b>	
PSYCH 350	Cultural Psychology
PSYCH 401	Psychology of Women and Gender
<b>Clinical/Counseling (choose one of the following):</b>	
PSYCH 435	Abnormal Psychology
PSYCH 438	Counseling and Psychotherapy
<b>Brain, Behavior, and Health (choose four of the following):</b>	
PSYCH 308	Physiological Psychology
PSYCH 310	Drugs and Behavior
PSYCH 315	Social Cognitive Affective Neuroscience
PSYCH 417	Psychology of Cognitive Processes
PSYCH 450	Health Psychology
<b>Elective Course (choose 3 credits - any Psychology upper-level course in the areas above not already taken or one of the following):</b>	
PSYCH 302	Developmental Research Methods
PSYCH 321	Sport and Performance Psychology
PSYCH 331	Infancy and Early Childhood Development
PSYCH 332	Middle Childhood and Adolescent Development
PSYCH 343	Adult Development and Aging
PSYCH 344	Dying, Death, and Loss
PSYCH 345	Human Sexuality
PSYCH 380	Conservation Psychology
PSYCH 390	Environmental Psychology
PSYCH 415	Industrial and Organizational Psychology
PSYCH 420	Psychological Testing
PSYCH 424	Psychology of Emotion
PSYCH 440	Multicultural Counseling and Mental Health
PSYCH 443	Spirituality and Development
PSYCH 494	Capstone in Psychology
PSYCH 499	Travel Course
<b>One (or more) 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 497	Internship
PSYCH 498	Independent Study

# Development Emphasis

## PSYCHOLOGY Major

Code	Title	Credits
<b>Supporting Courses:</b>		13-14
PSYCH 102	Introduction to Psychology	
PSYCH 203	Introduction to Lifespan Development	
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	
<b>Upper-Level Courses:</b>		31
PSYCH 300	Research Methods in Psychology	
<b>Physiological/Cognitive (choose one of the following):</b>		
PSYCH 308	Physiological Psychology	
PSYCH 417	Psychology of Cognitive Processes	
<b>Social/Personality (choose one of the following):</b>		
PSYCH 330	Social Psychology	
PSYCH 429	Theories of Personality	
<b>Culture/Gender (choose one of the following):</b>		
PSYCH 350	Cultural Psychology	
PSYCH 401	Psychology of Women and Gender	
<b>Clinical/Counseling (choose one of the following):</b>		
PSYCH 435	Abnormal Psychology	
PSYCH 438	Counseling and Psychotherapy	
<b>Developmental (choose three of the following):</b>		
PSYCH 331	Infancy and Early Childhood Development	
PSYCH 332	Middle Childhood and Adolescent Development	
PSYCH 343	Adult Development and Aging	
PSYCH 344	Dying, Death, and Loss	
<b>Elective (choose 3 additional credits - any Psychology upper-level course in the areas above not already taken or one of the following):</b>		
PSYCH 302	Developmental Research Methods	
PSYCH 310	Drugs and Behavior	
PSYCH 315	Social Cognitive Affective Neuroscience	
PSYCH 321	Sport and Performance Psychology	
PSYCH 345	Human Sexuality	
PSYCH 380	Conservation Psychology	
PSYCH 390	Environmental Psychology	
PSYCH 415	Industrial and Organizational Psychology	
PSYCH 420	Psychological Testing	
PSYCH 424	Psychology of Emotion	
PSYCH 440	Multicultural Counseling and Mental Health	
PSYCH 443	Spirituality and Development	
PSYCH 450	Health Psychology	
PSYCH 494	Capstone in Psychology	
PSYCH 499	Travel Course	
<b>One (or more) 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 497	Internship
PSYCH 498	Independent Study

Total Credits

44-45

## General Psychology Emphasis

### PSYCHOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>13-14</b>
PSYCH 102	Introduction to Psychology	
PSYCH 203	Introduction to Lifespan Development	
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	
<b>Upper-Level Courses</b>		<b>28</b>
PSYCH 300	Research Methods in Psychology	
<b>Core Courses</b>		
<b>Physiological/Cognitive (choose one of the following):</b>		
PSYCH 308	Physiological Psychology	
PSYCH 417	Psychology of Cognitive Processes	
<b>Social/Personality (choose one of the following):</b>		
PSYCH 330	Social Psychology	
PSYCH 429	Theories of Personality	
<b>Culture/Gender (choose one of the following):</b>		
PSYCH 350	Cultural Psychology	
PSYCH 401	Psychology of Women and Gender	
<b>Clinical/Counseling (choose one of the following):</b>		
PSYCH 435	Abnormal Psychology	
PSYCH 438	Counseling and Psychotherapy	
<b>Elective Courses (choose 12 credits - any Psychology Upper-Level course in the areas above not already taken or any of the following):</b>		
PSYCH 302	Developmental Research Methods	
PSYCH 310	Drugs and Behavior	
PSYCH 315	Social Cognitive Affective Neuroscience	
PSYCH 321	Sport and Performance Psychology	
PSYCH 331	Infancy and Early Childhood Development	
PSYCH 332	Middle Childhood and Adolescent Development	
PSYCH 343	Adult Development and Aging	
PSYCH 344	Dying, Death, and Loss	
PSYCH 345	Human Sexuality	
PSYCH 380	Conservation Psychology	
PSYCH 390	Environmental Psychology	
PSYCH 415	Industrial and Organizational Psychology	
PSYCH 420	Psychological Testing	
PSYCH 424	Psychology of Emotion	
PSYCH 440	Multicultural Counseling and Mental Health	

PSYCH 443	Spirituality and Development
PSYCH 450	Health Psychology
PSYCH 494	Capstone in Psychology
PSYCH 499	Travel Course
<b>One (or more) 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 497	Internship
PSYCH 498	Independent Study

Total Credits

41-42

## Mental Health Emphasis

### PSYCHOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		13-14
PSYCH 102	Introduction to Psychology	
PSYCH 203	Introduction to Lifespan Development	
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	
<b>Upper-Level Courses</b>		28
PSYCH 300	Research Methods in Psychology	
<b>Core Courses</b>		
<b>Physiological/Cognitive (choose one of the following):</b>		
PSYCH 308	Physiological Psychology	
PSYCH 417	Psychology of Cognitive Processes	
<b>Social/Personality (choose one of the following):</b>		
PSYCH 330	Social Psychology	
PSYCH 429	Theories of Personality	
<b>Culture/Gender (choose one of the following):</b>		
PSYCH 350	Cultural Psychology	
PSYCH/WOST 401	Psychology of Women and Gender	
<b>Mental Health (all of the following):</b>		
PSYCH 420	Psychological Testing	
PSYCH 435	Abnormal Psychology	
PSYCH 438	Counseling and Psychotherapy	
PSYCH 440	Multicultural Counseling and Mental Health	
<b>Elective Course (choose 3 credits - Any upper-level Psychology course in the areas above not already taken or one of the following):</b>		
PSYCH 302	Developmental Research Methods	
PSYCH 310	Drugs and Behavior	
PSYCH 315	Social Cognitive Affective Neuroscience	
PSYCH 321	Sport and Performance Psychology	
PSYCH 331	Infancy and Early Childhood Development	
PSYCH 332	Middle Childhood and Adolescent Development	
PSYCH 343	Adult Development and Aging	
PSYCH 344	Dying, Death, and Loss	

PSYCH 345	Human Sexuality
PSYCH 380	Conservation Psychology
PSYCH 390	Environmental Psychology
PSYCH 415	Industrial and Organizational Psychology
PSYCH 424	Psychology of Emotion
PSYCH 443	Spirituality and Development
PSYCH 450	Health Psychology
PSYCH 494	Capstone in Psychology
PSYCH 499	Travel Course
<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 497	Internship
PSYCH 498	Independent Study

Total Credits

41-42

## Psychology Minor

Code	Title	Credits
<b>Supporting Courses</b>		10
PSYCH 102	Introduction to Psychology	
PSYCH 203	Introduction to Lifespan Development	
<b>Choose one:</b>		
BUS ADM 216	Business Statistics	
or COMM SCI 205	Social Science Statistics	
or MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		12-13
<b>Choose any four upper-level (300 or 400 level) psychology prefix courses</b>		

Total Credits

22-23

<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

(Bachelor of Science)

As a broad-based, interdisciplinary, social science major, Public Administration prepares students for challenging careers in **public and nonprofit organizations** and, if desired, further study in graduate programs. Students develop proficiency in organizational management and leadership, nonprofit management, fundraising, public policy analysis, human resources, program evaluation, policy development and implementation and budgeting.

With a broad skill-set, graduates work in public, nonprofit, and commercial organizations in positions as program directors, policy analysts, nonprofit executives, budget specialists, governmental affairs directors in commercial businesses, and municipal leaders. Many pursue graduate studies in public administration, law, political science, nonprofit management, public policy, and public affairs.

All Public Administration majors engage in high impact, problem-focused, applied learning. This major excels in internships: students can choose from a wide array of **strong internship placements** in city, county and state executive offices, non-profit organizations, and emergency management settings. Students are encouraged to gain experiences through independent study, community research projects, and an other individualized work with faculty.

Students majoring in Public Administration must choose an emphasis: **Public and Nonprofit Management** or **Emergency Management**. Students who want to focus specifically on the nonprofit sector should consider earning the free-standing **Nonprofit Management Certificate**. Students pursuing an Emergency Management emphasis can obtain a free-standing **Emergency Management Certificate**, which is offered in cooperation with campus Continuing Education and Community Engagement programs.

Please seek assistance from a faculty adviser in creating your own 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, Organizational Leadership or Urban Studies. A second major complements the Public Administration curriculum and makes students stronger candidates when seeking careers or entry into graduate programs.

A minor in Public Administration fits well with majors in Political Science, Economics, Communication, Environmental Policy and Planning, Urban Studies, Democracy and Justice Studies, Psychology, Social Work, and many more. Please 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 <http://www.uwgb.edu/international> (<http://www.uwgb.edu/international>)

## Area of Emphasis

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

- Emergency Management (p. 306)
- Public & Nonprofit Management (p. 307)
- Public Administration Minor (p. 308)

The following is only an example of a four-year Public Administration degree program and is subject to change without notice. Students should consult a Public Administration program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Public Administration Major Curriculum Guide (p. 304)

**Ray Hutchison**; Professor; Ph.D., University of Chicago

**John R Stoll**; Professor; Ph.D., University of Kentucky, chair\*

**Dana Atwood**; Associate Professor; Ph.D., Western Michigan University

**Alise Coen**; Associate Professor; Ph.D., University of Delaware

**Marcelo P Cruz**; Associate Professor; Ph.D., University of California - Los Angeles

**David J Helpap**; Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Thomas S Nesslein**; Associate Professor; Ph.D., University of Washington - Seattle

**Laurel E Phoenix**; Associate Professor; Ph.D., State University of New York - College of Environmental Science and Forestry\*

**Lora H Warner**; Associate Professor; Ph.D., Virginia Commonwealth University

**Aaron C Weinschenk**; Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Elizabeth E Wheat**; Associate Professor; Ph.D., Western Michigan University\*

## Public Administration Curriculum Guide

An example: Four year plan for **Public Administration Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
POL SCI 101	American Government and Politics	3
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		3
Credits		15



<b>Spring</b>		
PU EN AF 202	Introduction to Public Policy	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
		Credits
		15
<b>Sophomore</b>		
<b>Fall</b>		
PU EN AF 215	Introduction to Public Administration	3
BUS ADM 216 or COMM SCI 205 or MATH 260	Business Statistics or Social Science Statistics or Introductory Statistics	4
General Ed		3
General Ed		3
General Ed		3
		Credits
		16
<b>Spring</b>		
ECON 203	Micro Economic Analysis	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
		Credits
		15
<b>Junior</b>		
<b>Fall</b>		
PU EN AF 315	Public and Non-Profit Management	3
PU EN AF 344	Leadership in Organizations	3
Public Administration Upper Level Elective		3
General Ed		3
General Ed		3
		Credits
		15
<b>Spring</b>		
PU EN AF 415	Public and Nonprofit Budgeting	3
PU EN AF 428	Public and Nonprofit Program Evaluation	3
Public Administration Upper Level Elective		3
General Ed		3
General Ed		3
		Credits
		15
<b>Senior</b>		
<b>Fall</b>		
PU EN AF 408	Public Policy Analysis	3
PU EN AF 497	Internship	3
Public Administration Upper Level Elective		3
General Ed		3
General Ed		3
		Credits
		15
<b>Spring</b>		
PU EN AF 497	Internship	3
Public Administration Upper Level Elective		3
Public Administration Upper Level Elective		3
General Ed		3

## Public Administration Major

### Area of Emphasis

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

- Emergency Management (p. 306)
- Public & Nonprofit Management (p. 307)

## Emergency Management Emphasis

### PUBLIC ADMINISTRATION Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>13</b>
<b>Complete three of the following:</b>		
PU EN AF 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
PU EN AF 220	Economics, Politics, and Government Action	
PU EN AF 225	Introduction to the Nonprofit Sector	
POL SCI 101	American Government and Politics	
<b>Complete one Research/Statistics course:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
<b>Upper Level Courses</b>		
<b>Required:</b>		<b>18</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	
<b>Complete One Analytic Methods Course:</b>		
PU EN AF 453	Cost Benefit Analysis	
PU EN AF 350	GIS in Public and Environmental Policy	
POL SCI 318	Political Behavior	
<b>Electives:</b>		<b>15</b>
<b>Choose from the following courses:</b>		
PU EN AF 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 322	Environmental Planning	
PU EN AF 344	Leadership in Organizations	
PU EN AF 345	Human Resource and Risk 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 407	Service in the Public Sector	
PU EN AF 408	Public Policy Analysis	
PU EN AF 415	Public and Nonprofit Budgeting	

PU EN AF 428	Public and Nonprofit Program Evaluation
PU EN AF 431	Building Sustainable Landscapes
PU EN AF 494	Teaching Assistant
PU EN AF 497	Internship
PU EN AF 498	Independent Study
PU EN AF 499	Travel Course

Total Credits

46

## Public & Nonprofit Management

### PUBLIC ADMINISTRATION Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>13</b>
Complete three of the following		
POL SCI 101	American Government and Politics	
PU EN AF 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
PU EN AF 220	Economics, Politics, and Government Action	
PU EN AF 225	Introduction to the Nonprofit Sector	
Complete one of the following		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
<b>Upper Level Courses</b>		
<b>Required:</b>		<b>15</b>
PU EN AF 315	Public and Non-Profit Management	
PU EN AF 345	Human Resource and Risk Management	
PU EN AF 408	Public Policy Analysis	
PU EN AF 415	Public and Nonprofit Budgeting	
PU EN AF 428	Public and Nonprofit Program Evaluation	
<b>Upper Level Electives</b>		<b>18</b>
<b>Complete one of the following:</b>		
POL SCI 318	Political Behavior	
PU EN AF 453	Cost Benefit Analysis	
PU EN AF 350	GIS in Public and Environmental Policy	
<b>Choose from the following courses:</b>		
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 344	Leadership in Organizations	
PU EN AF 326	Philanthropy: Civic Engagement through Giving	
PU EN AF 378	Environmental Law	
PU EN AF 380	Global Environmental Politics and Policy	
PU EN AF 406	State and Local Government	
PU EN AF 407	Service in the Public Sector	
PU EN AF 425	Fundraising and Marketing for Nonprofits	
PU EN AF 478	Honors in the Major	
PU EN AF 497	Internship <sup>1</sup>	
PU EN AF 498	Independent Study <sup>1</sup>	
PU EN AF 499	Travel Course <sup>1</sup>	

POL SCI 305	Urban Politics and Policy
POL SCI 316	Congress: Politics and Policy
POL SCI 370	Foreign and Defense Policies
ORG LEAD 348	Organizational Behavior Across Sectors

Total Credits 46

<sup>1</sup> Each of these courses can count once for 3 credits each as major electives.

## Public Administration Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
<b>Required (choose 3 courses):</b>		
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	
PU EN AF 225	Introduction to the Nonprofit Sector	
<b>Upper-Level Courses</b>		<b>15</b>
<b>Required (choose 3 courses):</b>		
PU EN AF 315	Public and Non-Profit 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	
<b>Electives (choose 2 courses):</b>		
POL SCI 305	Urban Politics and Policy	
PU EN AF 301	Environmental Politics and Policy	
PU EN AF 306/POL SCI 306	Regulatory Policy and Administration	
PU EN AF 314/POL SCI 314	Administrative Law	
PU EN AF 315	Public and Non-Profit Management	
PU EN AF 345	Human Resource and Risk Management	
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> PU EN AF 497 can only be completed for 3 credits to satisfy the upper level elective requirement. A 2.75 GPA is required for internship participation.

<sup>1</sup> A 2.75 cumulative GPA is required for internships. Only 3 credits of internship can count toward the minor.

## Social Work

(Bachelor of Social Work)

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 Child Welfare Emphasis (p. 309)
- Social Work General Emphasis (p. 311)
- Social Work Substance Abuse Emphasis (p. 313)

**Tohoro F Akakpo**; Associate Professor; Ph.D., Michigan State University\*

**Joan M Groessl**; Associate Professor; Ph.D., Marian University\*

**Doreen K Higgins**; Associate Professor; Ph.D., University of Kansas\*

**Jolanda M Sallmann**; Associate Professor; M.A., University of Wisconsin - Milwaukee, chair\*

**Gail E Trimberger**; Associate Professor; MSW, University of Wisconsin - Madison\*

**Stephanie Rhee**; Assistant Professor

**Margaret Kubek**; Lecturer; M.S., University of Wisconsin - Milwaukee

**Nina Powell**; Lecturer; M.S.W., University of Wisconsin - Green Bay

**Jennifer Schanen**; Lecturer; M.S.W., University of Wisconsin - Green Bay

## Social Work Major

- Social Work Child Welfare Emphasis (p. 309)
- Social Work General Emphasis (p. 311)
- Social Work Substance Abuse Emphasis (p. 313)

## Child Welfare Emphasis

## SOCIAL WORK Major

Code	Title	Credits
<b>Supporting Courses</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric (Satisfied for students with an ACT English score of 32 or higher)	34-37
PSYCH 203	Introduction to Lifespan Development	
SOC WORK 275	Foundations of Social Welfare Policy	
<b>Statistics (choose one course):</b>		
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/WOST 206 Fertility, Reproduction, and Family Planning <sup>1</sup>

HUM BIOL/WOST 324 The Biology of Women <sup>1</sup>

HUM DEV/WOST 336 Gender Development Across the Lifespan <sup>1</sup>

PSYCH 331 Infancy and Early Childhood Development

PSYCH 332 Middle Childhood and Adolescent Development

PSYCH 343 Adult Development and Aging

PSYCH 350 Cultural Psychology

PSYCH/WOST 401 Psychology of Women and Gender <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/WOST 348 Gender and the Law <sup>1</sup>

DJS/ECON 371 Gender and Economic Justice <sup>1</sup>

FNS 226 Introduction to First Nations Studies: Social Justice

FNS/WOST 360 Women and Gender in First Nations Communities <sup>1</sup>

PSYCH 390 Environmental Psychology

SOC WORK 499 Travel Course

SOCIOL 310/UR RE ST 310 Urban Sociology

UR RE ST 205 Urban Social Problems

UR RE ST 305/POL SCI 305 Urban Politics and Policy

UR RE ST 312/POL SCI 312 Community Politics

UR RE ST 341/GEOG 341 Urban Geography

UR RE ST 342/ECON 342 Community Economic Development

**Social Theory (choose one course):**

DJS 204 Freedom and Social Control

DJS/WOST 241 Introduction to Women's & Gender Studies <sup>1</sup>

DJS 325 Law and Society

DJS 362 Power and Change in America

DJS/WOST 437 Feminist Theory <sup>1</sup>

FNS/HUM STUD 385 First Nations Intellectual Traditions

FNS 392 First Nations Justice and Tribal Governments

PSYCH 330 Social Psychology

SOCIOL 101 Introduction to Sociology

**Women's Studies (choose one course):**

One Women's and Gender Studies course required. Courses listed above or any course with a WOST prefix may be used to satisfy this requirement.

**Biological Life Sciences (choose one course):**

Any course meeting the "Biological Sciences" general education requirements, including any courses listed above, may be used to satisfy this requirement. <sup>4</sup>

**Ethnic Studies (choose 1 course)**

Any course meeting the "Ethnic Studies Perspective" general education requirements, including any courses listed above, may be used to satisfy this requirement. <sup>5</sup>

**Upper-Level Courses**

SOC WORK 300 Professionalism and Teamwork in Social Work

SOC WORK 301	Research Methods for Generalist Social Work Practice
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 & Integrative Seminar <sup>3</sup>
SOC WORK 403	Field Practicum II & Integrative Seminar <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
<b>Required Courses for the Emphasis <sup>2</sup></b>	
<b>12</b>	
PSYCH 331	Infancy and Early Childhood Development
PSYCH 332	Middle Childhood and Adolescent Development
SOC WORK 351	Overview of the Child Welfare System
SOC WORK 451	Child Welfare Practice

- <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.
- <sup>4</sup> See General Education Program - Biological Sciences (p. 56)
- <sup>5</sup> See General Education - Ethnic Studies Perspective.
- <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.

## General Emphasis

### SOCIAL WORK Major

Code	Title	Credits
<b>Supporting Courses</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric (Satisfied for students with an ACT English score of 32 or higher)	24-34
PSYCH 203	Introduction to Lifespan Development	
SOC WORK 275	Foundations of Social Welfare Policy	
<b>Statistics (choose one course):</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/WOST 206	Fertility, Reproduction, and Family Planning	
HUM BIOL/WOST 324	The Biology of Women	
HUM DEV/WOST 336	Gender Development Across the Lifespan	
PSYCH 331	Infancy and Early Childhood Development	

PSYCH 332	Middle Childhood and Adolescent Development
PSYCH 343	Adult Development and Aging
PSYCH 350	Cultural Psychology
PSYCH/WOST 401	Psychology of Women and Gender
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/WOST 348	Gender and the Law
DJS/ECON 371	Gender and Economic Justice
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/UR RE ST 310	Urban Sociology
UR RE ST 205	Urban Social Problems
UR RE ST 305/POL SCI 305	Urban Politics and Policy
UR RE ST 312/POL SCI 312	Community Politics
UR RE ST 341/GEOG 341	Urban Geography
UR RE ST 342/GEOG 342	Community Economic Development

**Social Theory (choose one course):**

DJS 204	Freedom and Social Control
DJS/WOST 241	Introduction to Women's & Gender Studies
DJS 325	Law and Society
DJS 362	Power and Change in America
DJS/WOST 437	Feminist Theory
FNS/HUM STUD 385	First Nations Intellectual Traditions
FNS 392	First Nations Justice and Tribal Governments
PSYCH 330	Social Psychology
SOCIOL 101	Introduction to Sociology

**Women's Studies (choose one course):**

One Women's and Gender Studies course required. Courses listed above or any course with a WOST prefix may be used to satisfy this requirement.

**Ethnic Studies (choose 1 course):**

Any course meeting the "Ethnic Studies Perspective" general education requirements, including any courses listed above, may be used to satisfy this requirement. <sup>5</sup>

**Biological Life Sciences (choose one course):**

Any course meeting the "Biological Sciences" general education requirements, including any courses listed above, may be used to satisfy this requirement. <sup>4</sup>

**Upper-Level Courses**

41

SOC WORK 300	Professionalism and Teamwork in Social Work
SOC WORK 301	Research Methods for Generalist Social Work Practice
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 & Integrative Seminar <sup>3</sup>
SOC WORK 403	Field Practicum II & Integrative Seminar <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

65-75

- 1 May be used to satisfy the Women's Studies requirement.
- 2 These courses cannot be used as a Human Behavior Course if in the Child Welfare Emphasis.
- 3 To qualify for the Child Welfare Emphasis, these courses must involve practicum placement in an agency that serves children and families.
- 4 See General Education Program - Biological Sciences (p. 56)
- 5 See General Education Program - Ethnic Studies Perspectives.

## Substance Abuse Emphasis

### SOCIAL WORK Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>34-37</b>
ENG COMP 105	English Composition II: Composition and Rhetoric (Satisfied for students with an ACT English score of 32 or higher)	
PSYCH 203	Introduction to Lifespan Development	
SOC WORK 275	Foundations of Social Welfare Policy	
<b>Statistics (choose one course):</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/WOST 206	Fertility, Reproduction, and Family Planning <sup>1</sup>	
HUM BIOL/WOST 324	The Biology of Women <sup>1</sup>	
HUM DEV/WOST 336	Gender Development Across the Lifespan <sup>1</sup>	
PSYCH 331	Infancy and Early Childhood Development	
PSYCH 332	Middle Childhood and Adolescent Development	
PSYCH 343	Adult Development and Aging	
PSYCH 350	Cultural Psychology	
PSYCH/WOST 401	Psychology of Women and Gender <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/WOST 348	Gender and the Law <sup>1</sup>	
DJS/ECON 371	Gender and Economic Justice	
FNS 226	Introduction to First Nations Studies: Social Justice	
FNS/WOST 360	Women and Gender in First Nations Communities <sup>1</sup>	
PSYCH 390	Environmental Psychology	
SOC WORK 499	Travel Course	
SOCIOL 310/UR RE ST 310	Urban Sociology	

UR RE ST 205	Urban Social Problems
UR RE ST 305/POL SCI 305	Urban Politics and Policy
UR RE ST 312/POL SCI 312	Community Politics
UR RE ST 341/GEOG 341	Urban Geography
UR RE ST 342/ECON 342	Community Economic Development
<b>Social Theory (choose one course):</b>	
DJS 204	Freedom and Social Control
DJS/WOST 241	Introduction to Women's & Gender Studies <sup>1</sup>
DJS 325	Law and Society
DJS 362	Power and Change in America
DJS/WOST 437	Feminist Theory <sup>1</sup>
FNS/HUM STUD 385	First Nations Intellectual Traditions
FNS 392	First Nations Justice and Tribal Governments
PSYCH 330	Social Psychology
SOCIOL 101	Introduction to Sociology
<b>Women's Studies (choose one course):</b>	
One Women's and Gender Studies course required. Courses listed above or any course with a WOST prefix may be used to satisfy this requirement.	
<b>Biological Life Sciences (choose one course):</b>	
Any course meeting the "Biological Sciences" general education requirements, including any courses listed above, may be used to satisfy this requirement. <sup>2</sup>	
<b>Ethnic Studies (choose 1 course):</b>	
Any course meeting the "Ethnic Studies Perspective" general education requirements, including any courses listed above, may be used to satisfy this requirement. <sup>3</sup>	
<b>Upper-Level Courses</b>	
SOC WORK 300	Professionalism and Teamwork in Social Work
SOC WORK 301	Research Methods for Generalist Social Work Practice
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 & Integrative Seminar
SOC WORK 403	Field Practicum II & Integrative Seminar
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
<b>Required Courses for the Emphasis</b>	
PSYCH 310	Drugs and Behavior
PSYCH 438	Counseling and Psychotherapy
SOC WORK 340	Strengths-Based Group Facilitation
SOC WORK 342	Psychopharmacology

38

12

<sup>1</sup> May be used to satisfy the Women's Studies requirement.

<sup>2</sup> see General Education Program - Biological Sciences (p. 56)

<sup>3</sup> See General Education Program - Ethnic Studies Perspective.

# Sociology

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 collective behavior and social movements; deviant behavior, crime and punishment; gender and human sexuality; race and ethnicity, community and urban society; and social class and status.

Anthropology is the comparative study of human diversity through time and across the world. Its scope spans the humanities, the social sciences, and the biological, physical, and evolutionary sciences. As a social science, anthropology aims at uncovering the patterns of past and present societies; from a humanistic perspective, .seeks to understand the ways cultural meaning and political power have shaped human experience.

Students in the Sociology & Anthropology program learn a variety of research methods and social theories 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 & Anthropology will provide additional breadth of perspective for students with majors in Democracy and Justice Studies, Environmental Planning and Policy, Public Administration, Urban Studies, and Business Administration. It also provides preparation for students going on to graduate work in programs such as sociology, social work, urban studies, and other social science programs.

- Sociology & Anthropology Minor (p. 315)

**Ray Hutchison**; Professor; Ph.D., University of Chicago, chair

**Harvey J Kaye**; Professor; Ph.D., Louisiana State University

**Dana Atwood**; Associate Professor; Ph.D., Western Michigan University

**Andrew W Austin**; Associate Professor; Ph.D., University of Tennessee

## Sociology Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>10</b>
ANTHRO 100	Varieties of World Culture	
SOCIOL 101	Introduction to Sociology	
Take one of the following statistics courses		
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
BUS ADM 216	Business Statistics	
<b>Upper-Level Courses</b>		<b>12</b>
Required Core Course		
COMM SCI 301	Foundations for Social Research	
SOCIOL 307	Social Theory	
<b>Choose two of the following Elective courses:</b>		
ANTHRO 304	Family, Kin, and Community	
ANTHRO 306	Environmental Anthropology	
ANTHRO 314	Cultures of the World	
ANTHRO 320	Myth, Ritual, Symbol and Religion	
ANTHRO 340	Medical Anthropology	
ANTHRO 348	Economic Anthropology	
ANTHRO 498	Independent Study	
DJS 362	Power and Change in America	
SOCIOL 303	Race and Ethnic Relations	
SOCIOL 304	Deviant Behavior	
SOCIOL 310/UR RE ST 310	Urban Sociology	
UR RE ST 314	Suburbs	
SOCIOL 315	Street Gangs in America	
SOCIOL 320	Sociology of Religion	
SOCIOL 321	Topics in Sociology	
SOCIOL 335	Social Psychology	
SOCIOL 355	Environmental Sociology	

SOCIOL 375	Sociology of Sexual and Intimate Relations
SOCIOL 404	Criminology
SOCIOL 498	Independent Study

Total Credits

22

## Spanish and Latin American Studies

(Bachelor of Arts)

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.

Many students majoring in Spanish and Latin American Studies will also choose a complimentary minor. Students may choose Humanities; students interested in the arts or the performing arts may choose Design Arts or Arts Management. Depending on their preferences and goals, students may find other minors 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 major requires completion of one of the following areas of emphasis:

- General Emphasis (p. 318)
- Emphasis for Students Seeking Teaching Certification (p. 317)

This minor requires completion of one of the following areas of emphasis:

- Spanish and Latin American Studies Emphasis (p. 321)
- Spanish and Latin American Studies Emphasis for Students Seeking Teaching Certification (p. 320)

The following is a curriculum guide for a four-year Spanish degree program and is subject to change without notice. Students should consult a Spanish program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Spanish Major Curriculum Guide (p. 319)

**Jennifer Flatt**; Professor; Ph.D., Loyola University

**Cristina M Ortiz**; Professor; Ph.D., University of Cincinnati, chair

**Hernan Fernandez-Meardi**; Associate Professor; Ph.D., Universite de Montreal (Canada)

**Lorena Lecanda**; Assistant Professor; Ph.D., Ohio State University

## Spanish and Latin American Studies

This major requires completion of one of the following areas of emphasis:

- Spanish and Latin American Studies Emphasis (p. 318)
- Spanish and Latin American Studies Emphasis for Students Seeking Teaching Certification (p. 317)

## Education Emphasis

### SPANISH AND LATIN AMERICAN STUDIES Major

**This emphasis also requires:**

- Admission to the Education Program.
- Completion of the minor in Secondary Education.
- Oral and written proficiency exams successfully completed before student can be approved for student teaching (ACTFL intermediate high level) (<https://dpi.wi.gov/tepd/licensing/testing-requirements>).
- Student is required to spend an appropriate period of time in a country where Spanish is spoken or participate in an approved immersion program.

Code	Title	Credits
<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
<hr/>	
Total Credits	33

<sup>1</sup> Some upper-level courses are repeatable for credit when topic varies.

## General Emphasis

### SPANISH AND LATIN AMERICAN STUDIES Major

Code	Title	Credits
<b>Supporting Courses</b>		6
SPANISH 225	Composition and Conversation I	
SPANISH 226	Composition and Conversation II	
<b>Upper-Level Courses</b>		24
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	
<hr/>		
Total Credits		30

<sup>1</sup> Some upper-level courses are repeatable for credit when topic varies.

# Spanish and Latin American Studies Minor

This minor requires completion of one of the following areas of emphasis:

- General Emphasis (p. 321)
- Emphasis for Students Seeking Teaching Certification (p. 320)

## Spanish and Latin American Studies Curriculum Guide

An example: Four year plan for **Spanish Major; Minor in Humanistic Studies**

120 credits necessary to graduate. Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
HUM STUD 101 or HUM STUD 103 or HUM STUD 201	Foundations of Western Culture I or World Civilizations I or Introduction to the Humanities	3
First Year Seminar		3
General Ed		3
General Ed		3
Elective		3
	Credits	15
<b>Spring</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	3
HUM STUD 102 or HUM STUD 104	Foundations of Western Culture II or World Civilizations II	3
SPANISH 202	Intermediate Spanish Language II	3
General Ed		3
Elective		3
	Credits	15
<b>Sophomore</b>		
<b>Fall</b>		
SPANISH 225	Composition and Conversation I	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
	Credits	15
<b>Spring</b>		
SPANISH 226	Composition and Conversation II	3
SPANISH 359 or SPANISH 361	The Cultures of the Americas or The Cultures of Spain	3
Humanistic Studies Perspectives Course		3
General Ed		3
Elective		3
	Credits	15
<b>Junior</b>		
<b>Fall</b>		
SPANISH 328	Introduction to Cultural Studies in Spanish (or Elective)	3

SPANISH 329	Representative Spanish and Latin American Authors	3
Humanistic Studies Perspectives Course		3
General Ed		3
General Ed		3
		Credits
		15
<b>Spring</b>		
SPANISH 328	Introduction to Cultural Studies in Spanish (or Elective)	3
Humanistic Studies Upper Level Elective		3
Humanistic Studies or FNS Upper Level Elective		3
General Ed		3
Elective		3
		Credits
		15
<b>Senior</b>		
<b>Fall</b>		
SPANISH 345	Advanced Spanish Grammar	3
SPANISH 358 or SPANISH 360	Latin America Today or Spain Today	3
SPANISH 372	Spanish Phonetics	3
HUM STUD 480	Humanities Seminar	3
Elective		3
		Credits
		15
<b>Spring</b>		
SPANISH 438	Major Spanish and Latin American Writer(s)	3
Spanish Upper Level Elective		3
Spanish Upper Level Elective		3
General Ed		3
Elective		3
		Credits
		15
		Total Credits
		120

## Education Emphasis

### SPANISH AND LATIN AMERICAN STUDIES Minor

#### This 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.

Code	Title	Credits
<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>18</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	
<b>Choose 3 credits of the following courses:</b>		
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.

## General Emphasis

### SPANISH AND LATIN AMERICAN STUDIES Minor

Code	Title	Credits
<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>12</b>
SPANISH 328	Introduction to Cultural Studies in Spanish	
SPANISH 329	Representative Spanish and Latin American Authors	
<b>Choose 3 credits of the following courses:</b>		
SPANISH 358	Latin America Today	
SPANISH 359	The Cultures of the Americas	
SPANISH 360	Spain Today	
SPANISH 361	The Cultures of Spain	
<b>Choose 3 credits of the following courses:</b>		
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.

## Theatre and Dance

(Bachelor of Arts)

Students pursuing the bachelor's degree in Theatre will choose one of four areas of emphasis:

- Design/Technical Theatre
- Musical Theatre
- Performance
- 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://web.kennedy-center.org/education/kcactf/Home>), a national organization in support of excellence in university theatre.

Our facilities in Theatre Hall include the 450-seat proscenium University Theatre, Theatre 110 - Experimental Theatre & design studio, acting/ rehearsal studio, dance studio with a new sprung floor, a CAD & Sound Design lab with plotter, and well equipped scene and costume shops. Two of our Mainstage productions each year are performed in our 90-seat Jean Weidner Theatre in The Weidner Center for the Performing Arts. We periodically produce musicals and theatre for young audiences in the 2,000-seat Cofrin Family Hall of the Weidner Center.

Students receive training from working professionals and guest artists in a welcoming environment with small class sizes that assure personal attention. Opportunities afforded by the Weidner Center on campus include master classes, discounted tickets, and internship and work opportunities. Alternate Theatre, the student theatre organization, sponsors free workshops and affordable trips to regional theatres. Scholarships for incoming and returning Theatre and Dance students require application and audition or interview.

UW-Green Bay Theatre graduates pursue jobs in the entertainment industry and related fields. Students benefit greatly from internship opportunities prior to graduation and advanced course work in audition and portfolio preparation prepares them for the competitive challenges ahead.

### **UW-Green Bay Theatre & Dance Mission**

The UW-Green Bay Theatre and Dance program is a community of professional artists, educators and students that provides professional training in the related performing arts of Theatre, Dance and Design in the context of a broad, liberal arts education. Our program offers high impact learning practices that cultivate creativity, critical thinking, communication skills, and collaboration within and outside the program and delivers a rigorous academic and problem focused environment that seeks to produce work that **challenges the mind, engages the heart and delights the senses.**

### **Core Values**

#### **Collaboration**

Working together, we value the contribution of the individual to the collective vision of the team and strive for a cooperative and collegial realization of our artistic goals.

#### **Professional Practice**

We seek excellence in all our endeavors, training students to take their place as professionals. Faculty strives to remain up to date on current technologies and practices.

#### **Community**

We work to create engaging partnerships with our community, providing support and exchanging ideas as well as information, with our colleagues, our audience and the world at large. Students are taught to see the value of becoming engaged members of their community.

#### **Diversity**

We recognize that everyone has a unique point of view and we embrace the differences that enhance our society and our work.

#### **Discovery**

As an art form, theatre seeks to explore and comprehend the human condition. We encourage and support creativity, curiosity, intellectual and aesthetic development, invention and innovation in the pursuit of understanding.

#### **Academic and Creative Freedom**

We believe that freedom of inquiry is essential to academic and creative pursuits and our program supports intellectual and creative activities without restriction.

#### **Student Opportunities**

In all areas of emphasis, we strive to provide all students with opportunities to experience live theatre and to put classroom learning into practical application.

#### **Working Alumni**

The application of theory to professional practice is one of the main goals of the UW-Green Bay Theatre and Dance Program. Graduates of our program apply their training to careers in the world of live performance, entertainment technology, film, television, and other media as well as education, arts management, scholarship and are business. UW Green Bay Theatre and Dance graduates have successfully found work with organizations that include - Steppenwolf Theatre Company, Goodman Theatre, Chicago Shakespeare Theater, Lookingglass Theatre, 5<sup>th</sup> Avenue Theatre, Seattle Repertory Theatre, Guthrie Theatre, Alley Theatre, Oregon Shakespeare Festival Theatre, Utah Shakespeare Festival, Cirque du Soleil, Peninsula Players Theatre, Door Shakespeare and Dreamworks. Our graduates are on Broadway, in national and international production and concert tours, and educational institutions around the country, providing a far-reaching network of industry professionals. UW Green Bay Theatre and Dance graduates have also had great success in creative entrepreneurship, taking their talents in new directions.

## Area of Emphasis

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

- Design/Technical Theatre (p. 329)
- Musical Theatre (p. 330)
- Performance (p. 331)
- Theatre Studies (p. 332)
  
- Dance Minor (p. 323)
- Theatre Studies Minor (p. 333)

**Jeffrey P Entwistle**; Professor; M.F.A., Michigan State University, chair

**Kaoime E Malloy**; Professor; M.F.A., University of Iowa

**Laura E Riddle**; Professor; M.F.A., De Paul University, Goodman School of Drama

**Thomas Campbell**; Associate Professor; Ph.D., Southern Illinois University

**John E Mariano**; Associate Professor; M.F.A., Ohio University

**Rebecca Stone-Thornberry**; Associate Professor; Ph.D., University of Colorado

**Denise A Carlson-Gardner**; Lecturer; B.F.A., University of Wisconsin - Stevens Point

The following are curriculum guides for a four-year Theatre degree program and is subject to change without notice. Students should consult a Theatre program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Theatre Major with Emphasis in Design/Technical; Minor in Design Arts (p. 324)
- Theatre Major with Emphasis in Performance; Minor in Humanistic Studies (p. 325)
- Theatre Major with Emphasis in Theatre Studies; Minor in Humanistic Studies (p. 327)

## Dance Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>8</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>Electives (choose 3 credits):</b>		
THEATRE 131	Acting I	
THEATRE 220	Stage Management	
THEATRE 228	Jazz Dance II	
THEATRE 261	Tap Dance II	
<b>Upper-Level Courses</b>		<b>10</b>
THEATRE 340	Dance History	
THEATRE 372	American Musical Theatre Dance	
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		18

## Theatre Curriculum Guides

The following are curriculum guides for a four-year Theatre degree program and is subject to change without notice. Students should consult a Theatre program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Theatre Major with Emphasis in Design/Technical; Minor in Design Arts (p. 324)
- Theatre Major with Emphasis in Performance; Minor in Humanities (p. 325)
- Theatre Major with Emphasis in Theatre Studies; Minor in Humanities (p. 327)

## Curriculum Guide: Theatre Major with Emphasis in Design/Technical

An example: Four year plan for **Theatre Major with an emphasis in Design/Technical; Minor in Design Arts**  
120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
HUM BIOL 102	Introduction to Human Biology	3
THEATRE 220	Stage Management	3
THEATRE 338	Production Practicum: Scene Shop	1
THEATRE 221	Stagecraft	4
First Year Seminar		3
		Credits
		14
<b>Spring</b>		
ART 105	Introductory Drawing	3
HUM STUD 101 or HUM STUD 103 or HUM STUD 201	Foundations of Western Culture I or World Civilizations I or Introduction to the Humanities	3
THEATRE 222	Costume Technology	4
THEATRE 323	Stage Lighting	3
THEATRE 338	Production Practicum: Scene Shop	1
		Credits
		14
<b>Sophomore</b>		
<b>Fall</b>		
ART 107	Two-Dimensional Design	3
THEATRE 131	Acting I	3
THEATRE 223	Computer Applications for Theatre	3
THEATRE 309	Theatre History I: Greek to Elizabethan	3
THEATRE 338	Production Practicum: Scene Shop	1
General Ed		3
		Credits
		16

<b>Spring</b>		
DESIGN 131	Introduction to Design and Culture	3
THEATRE 224	Introduction to Theatre Design	3
THEATRE 310	Theatre History II: 17th Century to Realism	3
THEATRE 335	Production Practicum: Crews	1
THEATRE 339	Production Practicum: Costume Shop	1
General Ed		3
General Ed		3
	Credits	17
<b>Junior</b>		
<b>Fall</b>		
DESIGN 231	Graphic Design Studio I	3
THEATRE 311	Theatre History III: 20th Century and Contemporary	3
THEATRE 335	Production Practicum: Crews (Or any other Production Practicum)	1
THEATRE 351	Directing I	3
General Ed		3
General Ed		3
	Credits	16
<b>Spring</b>		
THEATRE 231	Acting II	3
THEATRE 311	Theatre History III: 20th Century and Contemporary	3
THEATRE 322	Costume Design	3
THEATRE 339	Production Practicum: Costume Shop	1
Design Arts Upper Level Elective		3
General Ed		3
	Credits	16
<b>Senior</b>		
<b>Fall</b>		
DESIGN 332	Graphic Design Studio II	3
THEATRE 321	Scene Design	4
THEATRE 426	Sound for Theatre	3
Performance Elective		
General Ed		3
	Credits	13
<b>Spring</b>		
THEATRE 325	Stage Makeup	3
THEATRE 480	Theatre Capstone Project	1-3
Design Arts Upper Level Elective		3
Theatre Upper Level Elective		3
General Ed		3
	Credits	13-15
	Total Credits	119-121

## Curriculum Guide: Theatre Major with Emphasis in Performance

An example: Four year plan for **Theatre Major with Emphasis in Performance; Minor in Humanistic Studies**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
HUM BIOL 102	Introduction to Human Biology	3
THEATRE 128	Jazz Dance I	1
THEATRE 131	Acting I	3
THEATRE 233	Voice for the Actor I	3
THEATRE 338	Production Practicum: Scene Shop	1
First Year Seminar		3
	Credits	14
<b>Spring</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	3
THEATRE 161	Tap Dance I	1
THEATRE 222	Costume Technology	4
THEATRE 231	Acting II	3
THEATRE 338	Production Practicum: Scene Shop	1
General Ed		3
	Credits	15
<b>Sophomore</b>		
<b>Fall</b>		
HUM STUD 101	Foundations of Western Culture I	3
HUM STUD 201	Introduction to the Humanities	3
THEATRE 137	Ballet I	1
THEATRE 221	Stagecraft	4
THEATRE 338	Production Practicum: Scene Shop	1
General Ed		3
	Credits	15
<b>Spring</b>		
HUM STUD 102	Foundations of Western Culture II	3
THEATRE 145	Modern Dance I	1
THEATRE 325	Stage Makeup	3
THEATRE 331	Acting III	3
THEATRE 339	Production Practicum: Costume Shop	1
General Ed		3
General Ed		3
	Credits	17
<b>Junior</b>		
<b>Fall</b>		
THEATRE 309	Theatre History I: Greek to Elizabethan	3
THEATRE 336 or THEATRE 335	Production Practicum: Performance or Production Practicum: Crews	1
THEATRE 351	Directing I	3
Theatre Upper Level Elective		3
Humanistic Studies Perspective Course		3
General Ed		3
	Credits	16
<b>Spring</b>		
THEATRE 310	Theatre History II: 17th Century to Realism	3
THEATRE 331	Acting III	3

THEATRE 336	Production Practicum: Performance (Other Production Practicum Courses are also an option)	1
THEATRE 352	Directing II	3
Dance Elective		1
Humanistic Studies Perspective Course		3
General Ed		3
Credits		17
<b>Senior</b>		
<b>Fall</b>		
THEATRE 305	Audition Techniques for the Actor	3
THEATRE 336	Production Practicum: Performance	1
Dance Elective		1
Humanistic Studies Upper Level Elective		3
General Ed		3
General Ed		3
Credits		14
<b>Spring</b>		
THEATRE 311	Theatre History III: 20th Century and Contemporary	3
THEATRE 333	Voice for the Actor II	3
THEATRE 336	Production Practicum: Performance	1
THEATRE 480	Theatre Capstone Project	1-3
Dance Elective		1
Theatre Upper Level Elective		3
General Ed		3
Credits		15-17
Total Credits		123-125

## Curriculum Guide: Theatre Major with Emphasis in Theatre Studies

An example: Four year plan for **Theatre Major with an emphasis in Theatre Studies; Minor in Humanistic Studies**  
120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
HUM BIOL 102	Introduction to Human Biology	3
THEATRE 131	Acting I	3
THEATRE 222	Costume Technology	4
THEATRE 338	Production Practicum: Scene Shop	1
First Year Seminar		3
Credits		14
<b>Spring</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	3
THEATRE 128	Jazz Dance I	1
THEATRE 231	Acting II	3
THEATRE 339	Production Practicum: Costume Shop	1
HUM STUD 101	Foundations of Western Culture I	3

General Ed		3
	Credits	14
<b>Sophomore</b>		
<b>Fall</b>		
THEATRE 161	Tap Dance I	1
THEATRE 220	Stage Management	3
THEATRE 221	Stagecraft	4
THEATRE 338	Production Practicum: Scene Shop	1
General Ed		3
General Ed		3
	Credits	15
<b>Spring</b>		
THEATRE 224	Introduction to Theatre Design	3
THEATRE 339	Production Practicum: Costume Shop	1
HUM STUD 102	Foundations of Western Culture II	3
Theatre Elective		3
General Ed		3
General Ed		3
	Credits	16
<b>Junior</b>		
<b>Fall</b>		
THEATRE 309	Theatre History I:Greek to Elizabethan	3
THEATRE 351	Directing I	3
Humanistic Studies Perspective Course		3
General Ed		3
General Ed		3
	Credits	15
<b>Spring</b>		
THEATRE 310	Theatre History II: 17th Century to Realism	3
THEATRE 336	Production Practicum: Performance	1
Theatre Upper Level Elective		3
Humanistic Studies Perspectives Course		3
General Ed		3
Elective		3
	Credits	16
<b>Senior</b>		
<b>Fall</b>		
THEATRE 311	Theatre History III: 20th Century and Contemporary	3
THEATRE 335	Production Practicum: Crews	1
Theatre Upper Level Elective		3
Humanistic Studies Upper Level Elective		3
General Ed		3
General Ed		3
	Credits	16
<b>Spring</b>		
HUM STUD 480	Humanities Seminar	3
THEATRE 335	Production Practicum: Crews	1
THEATRE 480	Theatre Capstone Project	1-3
Theatre Upper Level Elective		3
General Ed		3



General Ed

3

Credits

14-16

Total Credits

120-122

## Theatre Major

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

- Design/Technical Theatre (p. 329)
- Musical Theatre (p. 330)
- Performance (p. 331)
- Theatre Studies (p. 332)

## Design/Technical Theatre Emphasis

### THEATRE Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>25</b>
<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 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	
<b>Upper-Level Courses</b>		<b>31</b>
<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 (minimum 1 credit, may be repeated)
THEATRE 339	Production Practicum: Costume Shop (minimum 1 credit, 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
THEATRE 356	Production Practicum: Properties and Scene Painting
THEATRE 357	Production Practicum: Wardrobe and Makeup Crew
THEATRE 358	Performance Practicum: Musical
THEATRE 359	Production Practicum: Theatre Management
<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
Total Credits	

56

## Musical Theatre Emphasis

### THEATRE Major

Code	Title	Credits
<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 or MUS ENS 262	University Singers Concert Choir	
<b>Music Ensemble (choose 1 course):</b>		
MUS ENS 163 or MUS ENS 165 or MUS ENS 166 or MUS ENS 261 or MUS ENS 262	Chamber Singers Vocal Jazz Ensemble Opera Workshop University Singers Concert Choir	
<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	Introduction to Applied Musical Theatre Voice	

THEATRE 231	Acting II
THEATRE 233	Voice for the Actor I
THEATRE 290	Intermediate Applied Musical Theatre Voice (2 cr.)
<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 or THEATRE 141	Ballet I Period Dance Styles
<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 390	Advanced Applied Musical Theatre Voice (4 cr.)
<b>Dance</b>	
THEATRE 328	Jazz Dance III
THEATRE 361	Tap Dance III
THEATRE 440	Choreography
THEATRE 372	American Musical Theatre Dance
<b>Theatre History/Literature</b>	
THEATRE 309 or THEATRE 310	Theatre History I: Greek to Elizabethan Theatre History II: 17th Century to Realism
THEATRE 311	Theatre History III: 20th Century and Contemporary
THEATRE/MUSIC 364	Musical Theatre History
<b>Shop Practicum</b>	
<b>Select four credits from the following:</b>	
THEATRE 338	Production Practicum: Scene Shop (minimum 1 credit, may be repeated)
THEATRE 339	Production Practicum: Costume Shop (minimum 1 credit, may be repeated)
Total Credits	64

## Performance Emphasis

### THEATRE Major

Code	Title	Credits
<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 145	Modern Dance I	
THEATRE 161	Tap Dance I	
THEATRE 228	Jazz Dance II	
THEATRE 261	Tap Dance II	
<b>Upper-Level Courses</b>		<b>30</b>
<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 (minimum 1 credit, may be repeated)	
THEATRE 339	Production Practicum: Costume Shop (minimum 1 credit, 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	
THEATRE 356	Production Practicum: Properties and Scene Painting	
THEATRE 357	Production Practicum: Wardrobe and Makeup Crew	
THEATRE 358	Performance Practicum: Musical	
THEATRE 359	Production Practicum: Theatre Management	
<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		<b>54</b>

## Theatre Studies Emphasis

### THEATRE Major

Code	Title	Credits
<b>Supporting Courses</b>		
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	
		<b>23</b>

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>		<b>27</b>
<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 (minimum 1 credit, may be repeated)	
THEATRE 339	Production Practicum: Costume Shop (minimum 1 credit, 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	
THEATRE 356	Production Practicum: Properties and Scene Painting	
THEATRE 357	Production Practicum: Wardrobe and Makeup Crew	
THEATRE 358	Performance Practicum: Musical	
THEATRE 359	Production Practicum: Theatre Management	
<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. 323)
- Theatre Studies Minor (p. 333)

## Theatre Studies Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>11</b>
<b>Acting and Technical</b>		
THEATRE 131	Acting I	
THEATRE 221	Stagecraft	
THEATRE 222	Costume Technology	
<b>Upper-Level Courses</b>		<b>13</b>

**Required**

THEATRE 351	Directing I
THEATRE 338	Production Practicum: Scene Shop
THEATRE 339	Production Practicum: Costume Shop

**Practicum Electives (choose 2 additional credits from the following):**

THEATRE 335	Production Practicum: Crews
THEATRE 336	Production Practicum: Performance
THEATRE 338	Production Practicum: Scene Shop
THEATRE 339	Production Practicum: Costume Shop

**Electives (choose 6 credits):**

Select from any 300- or 400-level THEATRE courses

Total Credits

24

## Urban Studies

(Bachelor of Arts)

Urban 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 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 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 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 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 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 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 Studies Major (p. 336)
- Urban Studies Minor (p. 337)

**Ray Hutchison**; Professor; Ph.D., University of Chicago, chair

**Marcelo P Cruz**; Associate Professor; Ph.D., University of California - Los Angeles

**David J Helpap**; Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Thomas S Nessler**; Associate Professor; Ph.D., University of Washington - Seattle

**Aaron C Weinschenk**; Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

# Urban Studies Curriculum Guide

An example: Four year plan for **Urban Studies Major**

120 credits necessary to graduate.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
COMM 133	Fundamentals of Public Address	3
ENG COMP 105	English Composition II: Composition and Rhetoric	3
UR RE ST 100	Introduction to Urban Studies	3
First Year Seminar		3
General Ed		3
		Credits
		15
<b>Spring</b>		
POL SCI 312	Community Politics	3
MATH 260 or COMM SCI 205 or BUS ADM 216	Introductory Statistics or Social Science Statistics or Business Statistics	4
General Ed		3
General Ed		3
Elective		3
		Credits
		16
<b>Sophomore</b>		
<b>Fall</b>		
GEOG 250	Introduction to Geographic Information Systems (GIS)	2
SOCIOL 310	Urban Sociology	3
General Ed		3
UR RE ST Upper Level Elective		3
General Ed		3
		Credits
		14
<b>Spring</b>		
UR RE ST 341	Urban Geography	3
UR RE ST Upper Level Elective		3
UR RE ST Upper Level Elective		3
General Ed		3
General Ed		3
		Credits
		15
<b>Junior</b>		
<b>Fall</b>		
UR RE ST Upper Level Elective		3
General Ed		3
General Ed		3
Elective		3
Elective		3
		Credits
		15
<b>Spring</b>		
UR RE ST Upper Level Elective		3
Elective		3
General Ed		3
General Ed		3
Elective		3
		Credits
		15

<b>Senior</b>		
<b>Fall</b>		
UR RE ST 431	Seminar in Urban and Regional Studies	3
Elective		3
Elective		3
Elective		3
Elective		3
		<b>Credits</b>
		15
<b>Spring</b>		
Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
		<b>Credits</b>
		15
		<b>Total Credits</b>
		120

## Urban Studies Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>7</b>
UR RE ST 100	Introduction to Urban Studies	
COMM SCI 205 or MATH 260 or BUS ADM 216	Social Science Statistics Introductory Statistics Business Statistics	
<b>Upper-Level Core Courses</b>		<b>12</b>
POL SCI 305	Urban Politics and Policy	
UR RE ST 310/SOCIOL 310	Urban Sociology	
UR RE ST 313	The City Through Time and Space	
UR RE ST 341/GEOG 341	Urban Geography	
<b>Upper Level Electives</b>		<b>12</b>
Complete four of the following courses:		
POL SCI 312	Community Politics	
PU EN AF 324	Transitioning to Sustainable Communities	
PU EN AF 360	Immigration and Immigration Policy	
PU EN AF 406	State and Local Government	
PU EN AF 408	Public Policy Analysis	
SOCIOL 315	Street Gangs in America	
UR RE ST 309/ECON 309	Urban and Regional Economics	
UR RE ST 314	Suburbs	
UR RE ST 323	Asian American Communities in the United States	
UR RE ST 324	Latino Communities in the United States	
UR RE ST 351	Transportation and the City	
UR RE ST 412	Urban Planning	
UR RE ST 461	Special Topics in Urban and Regional Studies	
UR RE ST 484	Senior Honors Project	
UR RE ST 497	Internship	
UR RE ST 498	Independent Study	
UR RE ST 499	Travel Course	
<b>Total Credits</b>		<b>31</b>



## Urban Studies Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>7</b>
UR RE ST 100	Introduction to Urban Studies	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>15</b>
<b>Choose two of the following core courses:</b>		
UR RE ST 310/SOCIOL 310	Urban Sociology	
UR RE ST 312/POL SCI 312	Community Politics	
UR RE ST 313	The City Through Time and Space	
UR RE ST 341/GEOG 341	Urban Geography	
<b>Choose three of the following electives:</b>		
SOCIOL 315	Street Gangs in America	
UR RE ST 305/POL SCI 305	Urban Politics and Policy	
UR RE ST 309/ECON 309	Urban and Regional Economics	
UR RE ST 313	The City Through Time and Space	
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/ECON 340	Economics of Land Use	
UR RE ST 342/ECON 342	Community Economic Development	
UR RE ST 351	Transportation and the City	
UR RE ST 412	Urban Planning	
Total Credits		22

## Water Science

(Bachelor of Science)

### Overview of the Program

The UW-Green Bay Water Science program will be an integrated program designed to provide students with the tools necessary to solve the water related challenges of today and tomorrow. Students may complete program requirements in four years. The curriculum will be interdisciplinary, with a core set of courses drawn from geoscience, chemistry, environmental science, biology, physics, math and statistics, and public and environmental affairs. In addition, a diverse set of elective courses will allow students to focus on subdisciplines in water science that can meet their career needs and interests. The major requirements will be comprised of 71 credits, which will include 33 credits of supporting courses, 25 credits of upper level core courses, and 13 credits of upper level electives. The anticipated comprehensive major (71 credits) will have a principal focus on water's role in natural processes in Earth's systems. These skills include a solid understanding of the chemistry, surface water hydrology, groundwater, and biology of freshwater systems. UW-Green Bay Water Science majors will have opportunities to work as research assistants on faculty projects, develop internships, or to conduct their own independent projects. UW-Green Bay faculty members are very active in research on water and wastewater treatment, runoff pollution, stream hydrology, groundwater quality, limnology, and aquatic ecology.

### Student Learning Outcomes and Program Objectives

1. Students will be able to describe the role water plays in the lithosphere, hydrosphere, cryosphere, atmosphere, and biosphere, with emphasis on interactions between these reservoirs.
2. Students will apply the scientific method to investigations of hydrologic processes, Earth systems, and interactions among the various physical and biological realms utilizing standard scientific field and laboratory methods.
3. Students will demonstrate an understanding of the hydrology of streams and lake systems and the role water has in landscape-forming processes that act on the Earth's surface.
4. Students will be able to describe the processes of and importance of groundwater flow and aquifer systems.
5. Students will be able to compare chemical interactions that occur in various hydrologic settings and their importance to water resources, geological and biological systems, and water/wastewater treatment.
6. Students will be able to describe the role water plays in atmospheric systems and the climate system.
7. Students will be able to describe the interactions between water systems and ecosystems.
8. Students will be able to describe the challenges of maintaining surface and ground water quality.

9. Students will apply their knowledge base and research skills to current issues pertaining to water resources, management, and remediation, with emphasis on related economic, social, and public policy dimensions.
10. Students will analyze, interpret, and report on laboratory and field findings using appropriate statistical techniques and computer applications.

Code	Title	Credits
<b>Supporting Courses</b>		<b>33</b>
WATER 201	Introduction to Water Science	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution	
GEOSCI 202	Physical Geology	
GEOSCI 222	Ocean of Air: Weather and Climate	
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	
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I Principles of Physics I	
<b>Upper-Level Required Courses</b>		<b>24</b>
ENV SCI/ET 305	Environmental Systems	
ENV SCI 335/ET 331	Water and Waste Water Treatment	
ENV SCI 337	Environmental GIS	
ENV SCI/ET 330	Hydrology	
GEOSCI/ET/ENV SCI 432	Hydrogeology	
WATER/ET 444	Geochemistry of Natural Waters	
ENV SCI 401 or ENV SCI 403	Stream Ecology Limnology	
ENV SCI/ET 433 or PU EN AF 351	Ground Water: Resources and Regulations Water Resources Policy and Management	
<b>Upper-Level Elective Courses: (Choose from the following)</b>		<b>13</b>
BIOLOGY 322	Environmental Microbiology	
BIOLOGY 341	Ichthyology	
CHEM 311	Analytical Chemistry	
CHEM 413	Instrumental Analysis	
ECON 305/PU EN AF 305	Natural Resources Economic Policy	
ENV SCI/ET 320	The Soil Environment	
ENV SCI/ET 323	Pollution Prevention	
ENV SCI 338	Environmental Modeling	
ENV SCI 401	Stream Ecology	
ENV SCI 403	Limnology	
ENV SCI/ET 424	Hazardous and Toxic Materials	
ENV SCI 425	Global Climate Change	
ENV SCI/ET 433	Ground Water: Resources and Regulations	
ENV SCI 491	Senior Thesis/Research in Environmental Science	
ENV SCI 492	Practicum in Environmental Science	
GEOSCI 325	Regional Climatology	
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	
WATER 321	Stable Isotopes in the Environment (Senior Thesis/Research in Water Science)	
WATER 491	Senior Thesis/Research in Water Science	
WATER 497	Internship	
WATER 498	Independent Study	

Freshwater University <sup>1</sup>

Total Credits	70
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<sup>1</sup> may use up to 8 credits of Specialty and Field Immersion Courses offered by Freshwater University

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
WATER 201	Introduction to Water Science	3
	Credits	3
<b>Spring</b>		
add classes		
	Credits	0
<b>Sophomore</b>		
<b>Fall</b>		
add classes		
	Credits	0
<b>Spring</b>		
add classes		
	Credits	0
<b>Junior</b>		
<b>Fall</b>		
add classes		
	Credits	0
<b>Spring</b>		
add classes		
	Credits	0
<b>Senior</b>		
<b>Fall</b>		
add classes		
	Credits	0
<b>Spring</b>		
add classes		
	Credits	0
	Total Credits	3

**John A Luczaj**; Professor; Ph.D., Johns Hopkins University, chair\*

## Women's and Gender Studies

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 their chosen 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. 340)

**Illene N Cupit**; Professor; Ph.D., Temple University

**Heidi S Fencil**; Professor; Ph.D., The Ohio State University\*

**Alison A Gates**; Professor; M.F.A., University of Washington

**Rebecca A Meacham**; Professor; Ph.D., University of Cincinnati

**Sarah A Meredith**; Professor; D.M.A., University of Iowa

**Laura E Riddle**; Professor; M.F.A., De Paul University, Goodman School of Drama

**Andrew W Austin**; Associate Professor; Ph.D., University of Tennessee

**Kathleen C Burns**; Associate Professor; Ph.D., University of Massachusetts

**Bryan James Carr**; Associate Professor; Ph.D., University of Oklahoma

**Stefan T Hall**; Associate Professor; Ph.D., Saint Louis University

**Doreen K Higgins**; Associate Professor; Ph.D., University of Kansas\*

**Daniel J Meinhardt**; Associate Professor; Ph.D., University of Kansas\*

**Lisa M Poupart**; Associate Professor; Ph.D., Arizona State University

**Kimberley A Reilly**; Associate Professor; Ph.D., University of Chicago

**Jolanda M Sallmann**; Associate Professor; M.A., University of Wisconsin - Milwaukee\*

**Christine A Smith**; Associate Professor; Ph.D., University of Pittsburgh, chair

**Alison K Staudinger**; Associate Professor; Ph.D., University of Maryland

**Jessica VanSlooten**; Associate Professor; Ph.D., Auburn University

**Kristin M Vespia**; Associate Professor; Ph.D., University of Iowa

**Le Zhu**; Associate Professor; Ph.D., Cornell University

## Women's and Gender Studies Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>3</b>
DJS/WOST 241	Introduction to Women's & Gender Studies	
<b>Upper-Level Courses</b>		<b>15</b>
<b>Choose 2 of the following courses to satisfy Core Course requirements:</b>		
DJS/WOST 437	Feminist Theory	
HISTORY/WOST 380	U.S. Women's History	
HUM DEV/WOST 336	Gender Development Across the Lifespan	
PSYCH 401	Psychology of Women and Gender	
<b>Choose 3 courses from the list below or the remaining unused courses from the list above: <sup>1</sup></b>		
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/ART 379	Women, Art and Image	
WOST/PSYCH 401	Psychology of Women and Gender	
WOST 497	Internship	
WOST 498	Independent Study	
Total Credits		<b>18</b>

<sup>1</sup> If DJS 437 or WOST 437, HISTORY 380 or WOST 380, HUM DEV 336 or WOST 336 or PSYCH 401 are selected and used to satisfy the two core course requirement, only the the two courses left can be used to satisfy two of the elective course requirements. Example student completes 437 and 380, they can then use 336 for their elective.

# Writing and Applied Arts

(Bachelor of Fine Arts)

## Overview

Series like *Game of Thrones* and *Harry Potter* spend decades on bestseller lists. Movies inspired by comic books break box office records. Markets are exploding for literary fiction, sci-fi and fantasy, poetry, screenplays, game narratives, graphic memoirs, podcasts, and YA fiction. To meet industry demand for exceptional writing skills infused with creativity, UW-Green Bay offers the first and only degree of its kind in the UW-System: The Bachelor of Fine Arts in Writing and Applied Arts.

## Craft-Focused Workshops, Community-Facing Opportunities

The B.F.A. in Writing and Applied Arts is a craft-focused, community-facing program offering a range of writing workshops, including novel writing, novel revision, romance writing, poetry, screenwriting, creative nonfiction, memoir, and flash fiction. Small class sizes (10 to 25 students) place student work at the center of discussion. Students can write and revise a novel, poetry manuscript, or memoir with mentored feedback for class credit. In addition, through its focus on Applied Arts, the BFA in Writing and Applied Arts offers opportunities for students to discover and tell our region's untold stories—connecting a student's love of reading and writing to real-world problem-solving, advocacy, and change.

## The Business of Writing

According to the U.S. Bureau of Labor Statistics, employment of writers is projected to rise 8 to 14% over the next seven years in fields like technical writing, public relations, nonprofit fundraising, social media, library sciences, and community relations. Markets are growing for books in all formats and platforms. As emerging professionals, B.F.A. students develop expertise transferrable to any workplace. They also gain skills in communication, audience awareness, listening, empathy, communicating complex ideas and critical thinking — skills ranked in the top 10 most sought-after qualities by job recruiters. In the final year of the B.F.A. in Writing and Applied Arts, students engage in at least nine credit hours of hands-on expertise in areas such as small press publishing, copywriting, grant writing, podcasting, project development, journal editing, digital and social media, and marketing.

## Choose One of Three Emphases

Students choose one of three interdisciplinary emphases:

- **Community-Outreach Emphasis.** Students in the Community-Outreach Emphasis bring writing to broader communities by organizing regional events, developing community workshops, and advocating to tell untold stories.
- **Editing and Publishing Emphasis.** Students in the Editing and Publishing Emphasis learn the business of storytelling in preparation to become copyeditors, content developers, comic book publishers, and promotional and marketing professionals.
- **Digital and Public Humanities Emphasis.** Students in the Digital and Public Humanities Emphasis gain hands-on experience digitizing, researching, and making texts available and accessible in preparation for careers in podcasting, digital storytelling, graphic book designers, library science, museum curation, or further scholarly research.

## Program Outcomes for B.F.A. Students

- Students will create, draft, and revise original works in multiple genres and forms.
- Students will analyze the techniques, construction, and production of various written expressions.
- Students will critique works by peers and published authors alike in various classroom settings, including the writing workshop.
- Students will situate their work and the works of other writers within multiple larger audiences of readers, writers, the publishing industry, and other relevant markets.
- Students will identify sources of funding for arts and humanities projects, including their own individual projects.
- Students will interpret, research, and evaluate works of literature and related media by placing them in historical, philosophical, psychological, intertextual, and other contexts appropriate to the discipline.
- Students will articulate their aesthetic choices using appropriate artistic and professional terms.
- Students will develop proficiency in producing, copyediting, selecting content for, and disseminating various kinds of projects in an effort to engage communities within and outside of UWGB.
- Students will use reading, writing, editing, and producing literary texts or related media as an opportunity to deepen their insight into their own experiences and as vehicles for personal intellectual and imaginative growth.

Code	Title	Credits
<b>Supporting Courses:</b>		
<b>Required:</b>		
ENGLISH 200	Arts Entrepreneurship	18
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 226	Grammar	

ENGLISH 290	Literary Studies	
<b>Arts in Society (choose one course):</b>		
ARTS MGT 257	Arts in the Community	
DESIGN 131	Introduction to Design and Culture	
HUM STUD 200	Introduction to Digital and Public Humanities	
<b>Lower-level Literature (choose one course):</b>		
ENGLISH 206/WOST 205	Women in Literature	
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	
ENGLISH 219	World Literatures II	
<b>Upper-Level Courses:</b>		30-32
<b>Required:</b>		
ENGLISH 301	Intermediate Creative Writing	
<b>Writing workshops (choose three courses):</b>		
ENGLISH 302	Short Fiction Writing Workshop	
ENGLISH 303	Advanced Poetry Writing Workshop	
ENGLISH 304	Creative Nonfiction Writing	
ENGLISH 305	Novel Writing Workshop	
ENGLISH 306	Novel Revision Workshop	
ENGLISH 312	Topics in Creative Writing	
<b>Historical Literary Context (choose one course):</b>		
ENGLISH 326	Topics in Publishing	
ENGLISH 340	History of the English Language	
<b>Upper-level Literature (choose two courses):<sup>1</sup></b>		
ENGLISH 315	The British Novel	
ENGLISH 320	Major Drama	
ENGLISH 322	Major Poetry	
ENGLISH 323	Topics in Literary Criticism	
ENGLISH 326	Topics in Publishing	
ENGLISH 331	Major American Prose Fiction	
ENGLISH 335	Literary Eras	
ENGLISH/FNS 336	American Ethnic Literature	
ENGLISH/WOST 338	World Literatures	
ENGLISH 340	History of the English Language	
ENGLISH 344	African American Literature	
ENGLISH 364	Literary Topics	
ENGLISH 431	Shakespeare	
ENGLISH 436	Major Author(s)	
<b>Publication practicum (choose one):</b>		
ENGLISH 324	Sheepshead Review Practicum	
ENGLISH 424	Book Editing Practicum	
<b>Two Internships or community-based learning in Applied Arts area of emphasis:</b>		
Community Outreach		
Editing and Publishing		
Digital and Public Humanities		

Total Credits

48-50

<sup>1</sup> Historical Literary Context courses not used to fulfill that requirement may be used as a Literature elective.

insert Plan of Study Grid

let me know which faculty to include in this list - I will update the faculty db within CourseLeaf to pull them in

## 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.

### D

- Data Analytics (p. 343)

### E

- Emergency Management (p. 344)
- Entrepreneurship (p. 344)
- Environmental Sustainability and Business (p. 344)

### L

- Lesbian, Gay, Bisexual, Transgender, and Queer Studies (p. 345)

### M

- Management in Health Systems (p. 346)

### N

- Nonprofit Management (p. 347)

### P

- Physical Education (p. 348)
- Professional Accounting (p. 348)

### S

- Spanish/English Translation and Interpretation (p. 349)
- Supply Chain Management (p. 350)

### T

- Teaching English as a Second Language (p. 350)

## Data Analytics

This certificate enables you to develop skills for exploring and analyzing large or complex data sets. The curriculum builds on the basic analytic concepts and techniques required of data science professionals. Students completing this certificate will be well positioned to advise organizations on major decisions that can be informed by massive intertwined data sets.

### Certificate Program

Code	Title	Credits
<b>Required Courses:</b>		12
INFO SCI 302	Introduction to Data Science	
INFO SCI 411	Statistical Techniques and Decision Modeling	
INFO SCI 412	Data Mining and Predictive Analytics	
COMP SCI 451	Database Systems and Big Data Processing	

# Emergency Management

## Certificate Program

**Faculty, Public and Environmental Affairs** – Marcelo Cruz, David Helpap, Ray Hutchison, Thomas Nesslein, Laurel E. Phoenix, John Stoll, Lora Warner, Aaron Weinschenk, Elizabeth Wheat

**Website:** [www.uwgb.edu/pea/](http://www.uwgb.edu/pea/)

There is a nationwide effort within the Emergency Management industry today toward requiring bachelor's degrees for professionals working in the field. This translates into more jobs in the future requiring advanced knowledge, critical thinking skills, and academic preparation – in short, a college degree. A degree from the University of Wisconsin-Green Bay with this added certificate will give you the edge you need to compete and succeed.

The risk of hazardous events is increasing dramatically as a consequence of our growing ability to alter our environment.

- Tornados, floods, fires, disease and other natural hazards endanger people and property each year.
- Homeland security is now a major focus for our federal, state and local governments. The events of September 11, 2001 brought home the acute necessity of planning for the social and economic impact of man-made disasters in the form of potential terrorist attacks.
- Technological hazards are on the increase. Complex industrial processes using hazardous materials are becoming more common in the workplace.

Experts project that emergencies causing catastrophic loss of life, property and resources will occur more frequently in the future. Devastation and losses from a disaster can be lessened when businesses, emergency personnel and governments put organized, developed plans in place. Such planning requires skills in budgeting, administration, management and emergency operation procedures.

## Certificate Program

Code	Title	Credits
<b>Complete Required Upper Level Courses</b>		
PU EN AF 335	Principles and Practices of Emergency Management	3
PU EN AF 336	Strategic Emergency Preparedness, Planning and Implementation	3
PU EN AF 337	Disaster Response Operations and Management	3
PU EN AF 338	Disaster Recovery	3
PU EN AF 339	Political and Policy Dimensions of Emergency Management	3
Total Credits		15

# Entrepreneurship

## Certificate Program

**Faculty** – Vallari Chandna, Business Administration, and Ryan Kauth, Business Administration

A certificate in Entrepreneurship is available to students in all academic programs. It consists of a four-course structure. Entrepreneurship skills keep organizations viable through innovation, and are greatly valued in the workplace. Students learn about problem solving, resourcefulness, and entrepreneurial tools, as well as develop independent, creative and critical thinking skills. The final component of the certificate program is an intensive scalable business startup and pitch experience (BUS ADM 485) where students will start a real business. Students may need to declare for an Entrepreneurship Certificate prior to course registration.

Code	Title	Credits
<b>Required Courses</b>		
BUS ADM 371	e-Entrepreneurship and Digital Management	12
BUS ADM 373	Entrepreneurial Finance	
BUS ADM 481	Small Business Management & Family Entrepreneurship	
BUS ADM 485	New Venture Acceleration	
Total Credits		12

# Environmental Sustainability and Business

## Certificate Program

**Faculty, Business Administration** – Vallari Chandna, Amulya Gurtu, David Radosevich

**Faculty, Environmental Science** – Greg Davis, Mathew Dornbush, Kevin Fermanich, Ryan Holzem, John Katers, Patricia Terry, Michael Zorn



**Faculty, Nursing** – Susan Gallagher-Lepak, Christine Vandenhouten  
**Faculty, Public and Environmental Affairs** – Scott Furlong, David Helpap, 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

Code	Title	Credits
<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 384	Supply Chain Management	
ECON 453	Cost Benefit Analysis	
MGMT 389	Organizational Behavior	
MKTG 322	Introductory Marketing	
<b>Public Policy Element (choose one course):</b>		
ECON 305	Natural Resources Economic Policy	
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>		
ENV SCI 490/PU EN AF 490	EMBI Co-Op/Experience	
Total Credits		16

## Lesbian, Gay, Bisexual, Transgender, and Queer Studies Certificate Program

The Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ) Studies Certificate Program, housed administratively in the Women and Gender Studies Program, is a campus-wide program open to students in any major. Consistent with UWGB's problem-focused, interdisciplinary traditions, course work is available across a broad range of fields, including, but not limited to Women's and Gender Studies, Democracy and Justice Studies, Human Development, History, English, and Humanities. The certificate also includes additional training in diversity and the development of a participant-directed, high impact practice such as an internship, research project or other practicum.

The LGBTQ Studies Certificate Program provides participants with a background in the history and lived experiences of Gender, Sexuality, and Romantic Minorities (GSRMs). The Certificate is participant-driven, allowing those enrolled to select courses and experiences directed by areas of interest (e.g., persons interested in the helping professions may seek a relevant internship in Human Development, Social Work, or Psychology; literary fans could study GSRMs through English electives and stage a reading of Oscar Wilde; the possibilities are endless). As such, the Certificate allows participants to work with an Advisor to cater the Certificate to their interests. For some, this could involve completing coursework across a number of different program areas; others will find that clustering coursework within a narrow field is most appropriate.

The certificate is available to current students majoring in any field and members of the community who wish to think informatively and critically about the lives and contributions of LGBTQ people, to respect the dignity of LGBTQ people, and to understand and interact with a culture that contributes

to the diversity of our world. A defining feature of this Certificate is completion of a participant-directed high impact practice, some examples include activities such as a(n):

- independent study: Queer Theory symposium
- honors project: stage a public reading of a play by Oscar Wilde
- internship: volunteer at a local organization working with at-risk LGBTQ youth; develop and promote LGBTQ-themed programs for the Student Union
- research assistantship: assisting a faculty member on relationship study with same-sex couples; oral history of LGBTQ elders

Participants completing an LGBTQ Studies Certificate should demonstrate knowledge of the following concepts and issues:

1. The socio-cultural and historical construction of gender and sexual identities.
2. Intersectionality of gender and sexuality with race/ethnicity, religion, class, and nationality.
3. How to effectively challenge bigotry, inequality, and systems of oppression, including those based on gender and sexuality.
4. Major issues pertaining to the lives of LGBTQ people, historically and in contemporary societies (e.g. representations of LGBTQ individuals; the impact of queer culture on the dominant culture; violence; relationships between LGBTQ individuals/communities and institutions such as the medical and mental health professions, the law, religion, the media, education, and the military; family; and the LGBTQ Community and work.

Students must complete Ally Training I and II prior to declaring the certificate.

Code	Title	Credits
<b>Required Courses</b>		<b>6</b>
DJS/WOST 241	Introduction to Women's & Gender Studies	
3 credit student-directed high impact practice <sup>1</sup>		
<b>Elective options <sup>2</sup></b>		<b>9</b>
DJS/WOST 348	Gender and the Law	
HISTORY/WOST 370	History of Sexuality in the U.S.	
HUM DEV 314	Family Policy	
HUM DEV/WOST 336	Gender Development Across the Lifespan	
SOCIOL 375	Sociology of Sexual and Intimate Relations	
WOST 201	Introduction to LGBTQ Studies	
Total Credits		15

<sup>1</sup> e.g., internship, independent study, TA, RA, etc.

<sup>2</sup> Students may work with their certificate advisor to substitute other courses relevant to their content area and area of interest.

## Management in Health Systems

### Certificate Program

**Description of the Certificate:** This 15 credit certificate is for professionals working, or desiring to work, in the healthcare field. This is designed to serve professionals without any post-secondary education and/or experience in healthcare management. It will provide an overview of the various aspects of healthcare management including: operational management skills and knowledge, budgeting and finance, healthcare economics and population management. As the needs of professional healthcare managers and administrators continue to increase, a Management in Health Systems Certificate will provide the skills to meet the changing needs of today's healthcare industry.

**Format:** The Management in Health Systems certificate is offered in an online format, which allows students to balance their work and/or family obligations while advancing their education and career.

**Course Credits:** Five 3-credit, undergraduate courses are required for the Management in Health Systems certificate. These five courses are also included in UW-Green Bay's Organizational Leadership major with the Management in Health Systems area of emphasis. Courses completed toward the certificate will apply toward the Organizational Leadership major with the Management in Health Systems emphasis for degree-seeking students who choose this major.

Upon successful completion of the Management in Health Systems Certificate, students will receive a digital badge as a form of credentialing.

**Rationale for the Certificate:** Healthcare is the nation's fastest growing field and is projected to consistently grow statewide and nationally over the next 10 years. The Bureau of Labor Statistics forecasts 1.9% annual growth in the healthcare sector through 2024, more than twice the projected rate for almost every other industry. As hospitals and healthcare organizations continue to grow, there is an increased demand for managers to possess the necessary skills to take on leadership responsibilities that include business, technology and healthcare concepts. Creating an online healthcare management emphasis/certificate will help meet the workforce shortage and challenge of matching available talent with staffing needs, particularly in the

leadership and management areas. The online format provides flexibility which will allow students to balance their work and/or family obligations while advancing their education and career.

**Pre-requisite:**

- High School Diploma or equivalent

**Expectations:**

- All candidates must have high school level analytical ability
- Proficient in reading, writing and math
- Proficient in computer skills and technology
- Experience with Microsoft Word, ability to write reports
- Take online exams using a laptop/PC

Code	Title	Credits
<b>Required Courses:</b>		
ORG LEAD 347	Budgeting and Financial Management	3
HLTH MGT 301	Health Care Systems	3
HLTH MGT 302	Healthcare Management	3
HLTH MGT 401	Healthcare Economics & Policy	3
HLTH MGT 402	Population Healthcare Management	3
Total Credits		15

## Nonprofit Management

### Certificate Program

**Faculty, Public and Environmental Affairs** – Marcelo Cruz, David Helpap, Ray Hutchison, Kerry Kuenzi, Thomas Nessler, Laurel Phoenix, John Stoll, Lora Warner, Aaron Weinschenk, Elizabeth Wheat

**Lecturer - Pat Hicks**

**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, offers a broad-based certificate to demonstrate that students have achieved an understanding of the management principles for nonprofit organizations. Regardless of one's chosen major or degree, many graduates will find themselves working in 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 supporting courses that complement academic plans of students in the Organizational Leadership degree program who have chosen to pursue a Public/Nonprofit emphasis. This certificate program is also attractive to students who have chosen other majors, such as Arts Management, Psychology, Political Science, Democracy & Justice Studies, Public Administration, Social Work or others 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. The department has a wide array of strong internship partnerships with community agencies.

### Requirements for the Certificate

Code	Title	Credits
<b>Recommended supporting courses</b>		
PU EN AF 215	Introduction to Public Administration	
PU EN AF 225	Introduction to the Nonprofit Sector	
<b>Required Courses</b>		18
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 497	Internship (minimum of three credits)	
Complete one of the following		

PU EN AF 344	Leadership in Organizations
PU EN AF 345	Human Resource and Risk Management

Total Credits

18

## Physical Education

### Including Coaching Certification

Faculty - Mark Keihn

Lecturers, certification program – Callie Bartel, Brandon Schlotthauer, 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

Code	Title	Credits
<b>First Aid/CPR Requirement</b>		0-3
HUM BIOL 116	First Aid and Emergency Care Procedures	
Or faculty approved external certification		
<b>Required Courses</b>		16
HUM BIOL 102	Introduction to Human Biology	
or BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
HUM BIOL 208	Scientific Conditioning of the Athlete	
or HUM BIOL 333	Principles of Sports Physiology	
HUM BIOL 210	Prevention and Treatment of Athletic Injuries	
EDUC 416	Principles of Coaching	
EDUC 417	Philosophy of Athletics and Coaching	
EDUC 418	Organization and Administration of Athletics	
EDUC 419	Field Experience in Coaching	
Total Credits		16-19

## Professional Accounting

### Certificate Program

**Associate Professors** – Gaurav Bansal, James Loebel (chair), David Radosevich, Sampath Ranganathan, Matthew Raunio, Karl Schindl, Mussie Teclazion

**Assistant Professors**– Vallari Chandna, Heather Clarke, Amulya Gurtu, Vivek Madupu, Dianne Murphy, Wei Jiao, Wenkai Zhou

**Lecturers** – Patricia Albers, Matthew Geimer, Heather Kaminski, Ryan Kauth

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-hour 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

Code	Title	Credits
<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>
MGMT 472	Leadership Development	
MGMT 482	Strategic Management	
MGMT 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.

## Spanish/English Translation and Interpretation

This undergraduate Certificate in Spanish/English Translation and Interpretation provides UW-Green Bay students with a broad exposure to the theory and practice of the growing field of translation studies. Students can complement any major or minor with this Certificate. The Certificate does not substitute for or counts as a major or minor. However, Spanish courses completed towards the Certificate can also count towards a major or minor in Spanish.

To be eligible for the Certificate, students must be candidates for a B.A. or a B.S. degree at UW-Green Bay or have already completed such a degree at UW-Green Bay or elsewhere. Students must be declared Spanish majors and possess advanced linguistic proficiency in both English and Spanish.

## Certificate Program

Code	Title	Credits
<b>Required Courses:</b>		<b>15</b>
SPANISH 345	Advanced Spanish Grammar <sup>1</sup>	
SPANISH 372	Spanish Phonetics <sup>1</sup>	
SPANISH 383	Spanish in the Professions <sup>1</sup>	
SPANISH 454	Translation and Interpretation <sup>2</sup>	
SPANISH 465	Special Topics (Translation and Interpretation) <sup>1</sup>	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Course must be completed with a final grade of B or better for use in completing this certificate

<sup>2</sup> Practicum must be passed with a final grade of A for use in completing this certificate

# Supply Chain Management

## Certificate Program

Certificate in Supply Chain Management (SCM) is a 15 credit certificate for professionals working or desiring to work in the supply chain management function. This is designed to serve professionals with or without formal education and/or experience in SCM. It will provide an overview of the various aspects of SCM, improve the understanding of various principles and its applications in global supply chain management. This certificate will also provide exposure to logistics, transportation, packaging, operations planning, inventory management, lean and six-sigma and enterprise resource planning (ERP) among others.

Code	Title	Credits
BUS ADM 334	Logistics Management	3
BUS ADM 380	Project Management	3
BUS ADM 381	Operations Management	3
BUS ADM 383	Enterprise Resource Planning	3
BUS ADM 384	Supply Chain Management	3
Total Credits		15

# Teaching English as a Second Language

## Certificate Program

The certificate of completion in Teaching English as a Second Language (TESL) is offered under the auspices of the Humanities program 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

Code	Title	Credits
<b>Required Courses</b>		15
EDUC 315	Teaching English as a Second Language	
HUM STUD 160	Introduction to Language	
HUM STUD 319	Second Language Acquisition & Assessment	
HUM STUD 321	Sociolinguistics	
HUM STUD 497	Internship	
<b>Choose one elective from the following:</b>		3
COMM 322	Modern Linguistics	
ENGLISH 340	History of the English Language	
HUM STUD 318	Topics in Linguistics/TESL	
HUM STUD 320	Language and Identity	
Total Credits		18

# 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 ([advising@uwgb.edu](mailto:advising@uwgb.edu)) at 920-465-2362.

## D

- Dietetics (p. 351)

## E

- Engineering (p. 352)

## H

- Health Sciences (p. 353)

## L

- Law (p. 354)

## M

- Military Science (p. 354)

## N

- Nursing (p. 354)

## P

- Pharmacy (p. 355)

## V

- Veterinary Medicine (p. 355)

## 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 (p. 217).

## Engineering

UW-Green Bay provides a degree in mechanical engineering, three engineering technology majors, and solid preparation and numerous opportunities for those interested in beginning work toward other engineering degrees. 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 System institutions grant engineering degrees 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-Milwaukee - degrees in civil/environmental engineering and mechanics, electrical, industrial and manufacturing, materials and mechanical engineering.
- UW-Platteville – degrees in civil, electrical, environmental, mechanical, industrial, software engineering, general engineering and engineering physics.
- UW-Stevens Point - degree in paper science and chemical engineering
- UW-Stout - degrees in computer, mechanical, manufacturing, and plastics engineering

Advisers from engineering schools annually visit UW-Green Bay to answer questions and advise prospective students.

### Suggested courses for students planning to complete engineering degrees at another institution:

Code	Title	Credits
<b>Suggested Courses</b>		
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	English Composition I: College Writing	3
ENGR 213	Mechanics I	3
ENGR 214	Mechanics II	3
ENGR 301	Engineering Materials	2
MATH 202	Calculus and Analytic Geometry I	4
MATH 203	Calculus and Analytic Geometry II	4
MATH 209	Multivariate Calculus	4
PHYSICS 201	Principles of Physics I	5



## 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** – SFC Nathan Preder - Military Science Instructor  
E-mail: [predern@uwgb.edu](mailto:predern@uwgb.edu); Phone: (920) 691-6562

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 UW-Green Bay and 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.

## Nursing

UW-Green Bay offers a number of paths to a nursing career.

### Nurse 1-2-1 (Collaboration between UW-Green Bay and NWTC)

Earn a four year nursing degree through the combined resources of Northeast Wisconsin Technical College (NWTC) and the University of Wisconsin-Green Bay (UW-Green Bay). Students attend year 1 at UW-Green Bay, years 2 and 3 at NWTC, and obtain an Associate's Degree in Nursing. In the final year, year 4, students attend UW-Green Bay and obtain a Bachelor of Science in Nursing. For more information about this program, visit the Nurse 1-2-1 website at <http://www.uwgb.edu/nursing/>

### RN to BSN Program

This program is designed for Registered Nurses (RN) who hold an Associate Degree in Nursing to complete a Bachelor of Science in Nursing (BSN). To participate in this program, students must have a current RN license in any state or be in an Associate Degree in Nursing Program, and meet grade point average requirements. The RN to BSN program also provides opportunities for students to take courses online or in-person. For more information about this program, visit the RN to BSN Program website (<http://www.uwgb.edu/nursing>). You may also contact the RN to BSN office at [nursing@uwgb.edu](mailto:nursing@uwgb.edu) or 920-465-2826.

### General Courses and Transfer

Students can begin their general studies with one or two years at UW-Green Bay and transfer 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. Other nursing programs include UW System nursing programs at Oshkosh, Milwaukee, Madison, and Eau Claire, or various private institutions in Wisconsin. Locally, for example, nursing 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).

## 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 ([advising@uwgb.edu](mailto:advising@uwgb.edu)).

## Undergraduate Course Descriptions

### Accounting (ACCTG)

#### Courses

##### **ACCTG 201. Principles of Financial 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 202. Principles of Managerial Accounting. 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 201 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

**ACCTG 299. 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.

**ACCTG 301. Intermediate Accounting I. 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 201 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 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 201 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 202 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. Intermediate Accounting II. 3 Credits.**

Specialized financial accounting topics, including earnings per share, revenue recognition, accounting changes, cash flow statement preparation, tax allocation, accounting for leases and pensions; FASB Accounting Standard Updates 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 Accounting. 3 Credits.**

Accounting for long-term investments; business combinations; preparation of consolidated financial statements; inter-company profit issues; inter-company debt issues; earnings-per-share calculations; accounting for foreign operations and partnerships.

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 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 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. Accounting 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 202 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 201 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. Cost Accounting. 4 Credits.**

Expands and broadens the cost accounting concepts and methods presented in ACCTG 302. The class includes accounting for Process and ABC product costing systems, standard costing, variance analysis, Balanced Scorecard and strategy measurement, inventory costing and management, cost allocations, quality, target costs and transfer pricing.

P: Acctg 202 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: Math 260 or Bus Adm 216 or Comm Sci 205.

Fall and 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. Course is repeatable for credit.

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. Course is repeatable for credit.

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 150. Food Culture & Identity. 3 Credits.**

Food is the very core of life and one of the most culturally prescribed areas of human experience. This course will study the role of food in human history, and the biocultural construction of what is classified as food. We will examine the meaning of food across cultures with particular attention to how cultural and ethnic (e.g. Asian American, Native American) identities are associated with particular types of food. Rituals, religions and family celebrations, and secular holidays all include the deliberate preparation, serving and sharing of food (or abstinence from food). We will explore food consumption and health, the gendered dimension of food, and the social hierarchies and power relations associated with the commodification of food. Class projects are designed to connect the student to various community and ethnic groups through the study of farmer's markets, food banks, stores and restaurants. We will think about food in new and provocative ways and in the process practically apply theoretical concepts.

**ANTHRO 250. Women in Cross-Cultural Perspectives. 3 Credits.**

Study of women in a variety of cultures around the world, both past and present. Includes consideration of the sexual division of labor, marriage systems, child rearing, relationships between men and women, systems of myth and ideology concerning women's roles, and the effects of socio-economic development and rapid social change. Not recommended for first-semester students.

**ANTHRO 291. Selected Topics in Anthropology. 3 Credits.**

A specific topic in an instructor's area of special competence. When offered, the particular topic is indicated in the campus timetable. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: Previous Anthropology course or cons. instr.

**ANTHRO 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. Course is repeatable for credit.

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.

**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 306. Environmental Anthropology. 3 Credits.**

This course focuses on the complex relations between people and their environment. Environmental anthropology has become more important since the 1990s due to issues like climate change. The course addresses the ways a population affects the environment and how these relations influence the social, economic, and political life of a culture. The topics covered in this class are particularly relevant in an era bombarded with concerns about environmental degradation. Environmental anthropology, utilizing research methodology of the discipline, uses a multidisciplinary and cross-cultural approach in a search for sustainable solutions to problems.

P: Anthro 100 or consent of instructor

Fall and Spring.

**ANTHRO 314. Cultures of the World. 3 Credits.**

Ethnographic survey of the world's peoples and their cultures. Major regions of the world considered in an attempt to outline the variety, richness, significance and persistence of cultural traditions.

P: Junior standing or consent of instructor.

**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.

P: jr st and Anthro 100.

Fall Only.

**ANTHRO 348. Economic Anthropology. 3 Credits.**

Economic Anthropology explores human engagement in systems of production, distribution, and consumption of goods. This course surveys the ways in which economic activities are enmeshed in local cultural rituals and obligations and form the basis of global economic exchanges. Students will examine a variety of past and contemporary economies at the local (subcultures including minority groups within the United States) as well as global level.

**ANTHRO 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. Course is repeatable for credit.

P: so st; and Anthro 100, 210 or 215.

Fall and Spring.

## 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. Course is repeatable for credit.

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. Three Dimensional Design. 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.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**ART 202. 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 203. Contemporary Art. 3 Credits.**

Investigation of art works and concepts from 1960 to the present.

P: ART 202 or permission of instructor

Fall Only.

**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 235. Introduction to Woodworking and Furniture Design. 3 Credits.**

Students explore a variety of woodworking processes, from use of hand tools to basic use of machines. Focus is placed on the student's ability to build technical skills and on aesthetic approaches to using wooden materials.

P: None. REC: ART 105, 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. 1-6 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.

**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 Only.

**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; REC: Art 210

Spring.

**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 335. Intermediate Woodworking & Furniture Design. 3 Credits.**

This course is designed to provide an in-depth concentration on wooden materials and technique through creating functional furniture projects. Historical and contemporary issues in furniture design are discussed through lectures, slide presentations and critiques, and students are introduced to a wide variety of functional forms. Students explore structural system and appropriate joinery in furniture design. Preliminary drawings, both small and full scale, are required.

P: ART 235

Spring.

**ART 343. Photography II. 3 Credits.**

Black-and-white photography, printing practices, and analysis of student work. Cameras available for checkout through the instructor at no cost or students may use their own 35mm film camera or medium format film camera with the ability to function in all manual mode.

P: Art 107 and Art 243

Fall and Spring.

**ART 344. Photography III. 3 Credits.**

Creative applications of digital photography including advanced understanding of digital cameras, photoshop, large format printing and photographic documentation. Cameras available for checkout for at no cost through the instructor or students may use their own digital SLR with the ability to function in full manual mode.

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.**

Outsider Art, Folk Art, Fads, 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, Design Arts, Arts Management or Theatre major

Fall 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 381. Art of the First Nations. 3 Credits.**

An upper-level survey of the arts of the First Nations peoples of North America. The historical and cultural contexts in which Native American arts were, and are, produced will be examined. Modern and contemporary arts will be incorporated throughout the semester.

P: junior standing

Fall Odd.

**ART 382. Precolumbian Art of Mesoamerica. 3 Credits.**

An upper-level survey of the Precolumbian art of Mexico and Central America. The course will examine the art and culture of the major civilizations in the region including the Olmec, Zapotec, Teotihuacan, Maya, Toltec, Mexica (Aztec), and the West Coast chiefdoms. While form and technique will be covered, the principal emphasis will be upon understanding the differing contexts (both religious and secular) in which art was created in this region.

P: Junior standing REC: Art 102

Spring Even.

**ART 383. African Art. 3 Credits.**

This class offers a general survey of the traditional & non-traditional arts of sub-Saharan Africa with an emphasis on the Western and Central regions. The religious, social, historical, and performative contexts in which African arts were, and are, produced will be examined. The course will emphasize the historic development of regional art styles on the continent, the role of gender in performance and artistic production, as well as the legacy of European colonialism.

P: Junior standing

Fall Even.

**ART 384. Asian Art. 3 Credits.**

Survey of art and architecture of India, Southeast Asia, China, Korea, and Japan. Each country has a distinctive characteristic in art forms, materials, styles and purposes in creating art. Students will become familiar with major monuments of Asian countries in historical contexts, and develop their skills in analyzing differences in religion, culture, and aesthetics in each country. Students will acquire basic knowledge on artists, key vocabularies, styles of traditional arts, and religious and iconographic concepts of Asian arts.

P: Junior standing

Spring Odd.

**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. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

P: Art 302 OR Art 304 or permission of instructor

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. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

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. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

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. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

P: Art 331.

Fall and Spring.

**ART 435. Advanced Woodworking & Furniture Design. 3 Credits.**

After exploring the boundaries of woodworking at the intermediate levels, students in this course develop a portfolio-quality body of work through intensive technical and aesthetic approaches to ceramics. Students develop skills for writing artist statement and proposals, as well as presenting their own work in a professional fashion.

P: ART 235, 335

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. Cameras available for checkout for at no cost through the instructor or students may use their own camera of any format appropriate to the direction of their portfolio. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

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. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

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. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

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. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

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 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. Course is repeatable for credit.

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. Course is repeatable for credit.

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.

Spring.

**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 or permission by instructor. REC: Arts Mgt 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 357. Gallery & Museum Studies. 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 and historical artifacts. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

P: ARTS MGT major or minor. REC: Arts Mgt 257

Fall and 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 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.

**ARTS MGT 480. Arts Management Seminar. 1 Credit.**

Exploration of issues pertinent to arts management using research, case studies and practical applications. Course is repeatable for credit; may be taken 6 times for a total of 6 credits.

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. Course is repeatable for credit. 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.

**ARTS MGT 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. Course is repeatable for credit.

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 (BIOLOGY)

### Courses

**BIOLOGY 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman

Fall Even.

**BIOLOGY 200. Principles of Biology Discussion: Cellular and Molecular Processes. 1 Credit.**

This discussion course is designed to supplement the concepts presented in BIOLOGY 201. Activities will focus on deeper exploration of the biology of organisms at the molecular and cellular level and will emphasize skills necessary for success in the introductory biology sequence.

P: Concurrent enrollment in BIOLOGY 201

Fall and Spring.

**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: CHEM 207 or conc enr AND ACT Science Score of 24 or greater, OR grade of C or better in HUM BIO 102, OR grade of C or better in BIOLOGY 203 AND BIOLOGY 202 (or concurrent enrollment) or concurrent enrollment in BIOLOGY 200 and consent of instructor.

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: CHEM 207 or conc enr AND ACT Science Score of 24 or greater, OR grade of C or better in HUM BIO 102, OR grade of C or better in BIOLOGY 203 & BIOLOGY 201 (or concurrent enrollment) or concurrent enrollment in BIOLOGY 200 and consent of instructor.

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. Course is repeatable for credit.

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. 1-6 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.

**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 Chem 207 or concurrent enrollment

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 Chem 207 or concurrent enrollment

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 201 with at least a C grade; AND Chem 108 or 212 with at least a C grade; AND Biology 303 or Hum Biol 310

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 Chem 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 Biodiversity. 4 Credits.**

An introduction to the diversity of vascular plants, with an emphasis on flowering plants. Lectures cover both organismal and phylogenetic/evolutionary perspectives on plant systematics, including the use of genetic and genomic data for understanding plant evolution. The laboratory presents a survey of vascular plant diversity, covering structural characteristics of major plant families and the identification of seed plants of Wisconsin to the species level.

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 Even.

**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 201/202 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. 4 Credits.**

Broad taxonomic survey of fungi. Morphology, reproduction, physiology, genetics, evolution, and ecology. Role in nutrient cycling, plant disease, human welfare and biotechnology. Techniques in collection, identification, pure culture isolation, and nucleic acid applications.

P: Biology 201/202 with at least a C grade or transfer cse Biology 003.

Fall Odd.

**BIOLOGY 317. Structure of Seed Plants. 3 Credits.**

Anatomy of seed plants, with special emphasis upon tissue differentiation and structure.

P: Biology 201/202 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. 4 Credits.**

Identification and natural history of plants indigenous to the Great Lakes region. Students will become proficient at using keys to identify unknown plants to the species level, be able to identify at sight the woody plants of northeastern Wisconsin, be able to recognize major plant communities of Wisconsin, and gain an understanding of basic organismal botany. An all-day field trip during one weekend day in mid-September is required.

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 Even.

**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: Biology 201/202 with at least a C AND Chem 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: Env Sci 302

Spring Even.

**BIOLOGY 342. Ornithology. 4 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. 4 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 Biology 203/204 with at least a C grade

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 355. Entomology. 4 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 Odd.

**BIOLOGY 357. Marine Biology. 4 Credits.**

The Ocean covers about 71% of the Earth's surface and so is obviously a huge part of the functioning biosphere. Life emerged in the Ocean but since we are terrestrial beings, Ocean life remains less well known than terrestrial life. This course serves as an overview of marine biodiversity and marine ecosystems in which the concepts learned in general biology courses can be applied to marine life. We will cover the abiotic functioning of the Ocean in order to understand the unique challenges that marine organisms face, and we will focus on an understanding of the diverse array of marine organisms, how they interact ecologically, and how humans are affecting marine ecosystems worldwide.

Fall Even.

**BIOLOGY 401. Fish and Wildlife Population Dynamics. 4 Credits.**

The course will introduce students to principles of population ecology and how such principles relate to basic models of wildlife and fish population dynamics. This course will also give students practical experience manipulating population dynamics models using computer applications.

P: BIOLOGY 203. REC: ENV SCI 302

Spring Odd.

**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 Chem 207 or conc enr

Fall Only.

**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; and Chem 207 or conc enr

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 and invertebrate 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 449. Wetland Ecology. 3 Credits.**

This course explores the ecology and conservation of wetlands, including biological, physical, chemical and hydrological attributes of wetland ecosystems. The curriculum will survey major wetland types in both freshwater and marine environments, the general biogeochemical dynamics of wetland ecosystems, and the ecological diversity of wetland vegetation and fauna. Field trips and in-class exercises will provide training in the identification of wetland types and features, including biological and physical characteristics of wetlands in the western Great Lakes. A field project will focus on wetland delineation and assessment of wetland quality, including analysis of restoration methods and conservation management.

P: ENV SCI 302

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 an interdisciplinary 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, including the socioeconomic impacts of new advances in biology. During a significant part of the course, students will read and discuss current articles from the primary scientific literature. Teams of students will lead class discussions about cutting-edge discoveries and new concepts conveyed in the selected articles.

Presentations will fulfill the communication objective for a capstone experience in the UW-Green Bay General Education curriculum. The class discussions will address the interdisciplinary implications of new biology discoveries and their relevance to current socioeconomic problems. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.

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. Course is repeatable for credit; may be taken 10 times for a total of 10 credits.

P: Chem 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. Course is repeatable for credit.

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. Course is repeatable for credit.

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 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**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 and Spring.



**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 with at least a C grade or WPT-MFND score >465 and WPT-AALG score >525

Fall and Spring.

**BUS ADM 230. Introduction to Management Information Systems. 3 Credits.**

This course 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 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. 1-6 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.

**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: Sophomore status

Fall and Spring.

**BUS ADM 306. Business Law. 3 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 state law regulation of the corporation and other business associations, sales, agency, debtor and creditor relations, negotiable instruments and property law.

P: Bus Adm 305 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Spring.

**BUS ADM 334. Logistics Management. 3 Credits.**

This is a course on logistics management which falls within the broad discipline of supply chain management (SCM). This will allow students to deepen their knowledge and understanding on various components of logistics management; its role across other functions in an enterprise; and its importance in the context of present global business environment. The primary objective of the logistics management is to provide support in storage and distribution of goods and services, from an enterprise to customers as well as any returns from customers to an enterprise with or without channel partners. The goal of this course is to build on the learnings from the course "Introduction to Supply Chain Management" and provide an in-depth understanding of the roles of logistics function, concepts and principles used in addressing the needs of an enterprise, while minimizing the costs and environmental impacts.

P: Bus Adm 384 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall Only.

**BUS ADM 371. e-Entrepreneurship and Digital Management. 3 Credits.**

This course provides an overview of how to create new business, capture new markets, and operate businesses virtually in today's digital era. In addition to topics related to e-marketing, idea generation, online peer networks, innovation, social media, feasibility, and e-business models, the course delves into managing people and businesses in the digital era by discussing topics such as online leadership, managing virtual teams, digital knowledge management, and online communication.

P: Sophomore status; Bus Adm major or minor or Acctg major or minor or Entrepreneurship Certificate or ONLINE Majors of: Integrative Leadership/ Organizational Leadership (BA & BAS) with a Business Administration emphasis or Business Administration minor

Fall and Spring.

**BUS ADM 373. Entrepreneurial Finance. 3 Credits.**

This course introduces the undergraduate student to the entrepreneurial finance topics of self-funding, friendly funding, seed funding, microlending and microlenders, debt financing, equity financing and other nonbank financing sources, sources and uses of funds, startup financial statement development and projections, debt and equity term sheets, valuations, and starting the bookkeeping process.

P: Junior status; Bus Adm 371; satisfaction of mathematical competency requirement; Bus Adm major or minor or Acctg major or minor or Entrepreneurship Certificate.

Fall Only.

**BUS ADM 378. Leadership Transformation. 3 Credits.**

This course focuses on leadership transformation for increased effectiveness by engaging in specific skills and critical thinking necessary for authentic leadership in today's business climate.

P: None.

**BUS ADM 380. Project Management. 3 Credits.**

Project management is an essential component in Supply Chain Management, Operations Management, Analytics, and Management Information Systems. It is equally useful in other disciplines. This course covers the project management methodology recommended by the Project Management Institute, USA (PMI) and prepares students for successfully managing projects or new initiatives in organizations from inception to completion in a consistent and structured manner. This course provides the use of standardized terms and exposes students to the knowledge area, process groups and processes defined in the Project Management Book of Knowledge (PMBOK®) and used in project management worldwide. It prepares students for clearly defining the scope of a project, including the budgeting and cost management, human resource planning, communication planning, stakeholder analyses and submission of the final product/service to operations that are associated with a project.

Fall and Spring.

**BUS ADM 381. Operations Management. 3 Credits.**

The first part of the operations management course will provide features of production/service systems, methods of modeling and the control system for operations/service. Topics include aggregate planning, forecasting techniques, work-force and operations scheduling, and material requirement planning. The second part will cover the models and techniques for managing inventory systems, the deterministic and stochastic inventory models, and lot sizing in continuous and periodic review systems.

P: Bus Adm 384 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Spring.

**BUS ADM 383. Enterprise Resource Planning. 3 Credits.**

The Enterprise Resource Planning (ERP) course provides details on the need and the use of an ERP system in supply chain management (SCM) in industries. It provides the basic structure of an ERP system in an organization. It is a hands-on course to be taught in a computer lab to train students on the use of an ERP system. This course will provide training on various aspects of SCM functions such as how to: (1) create/modify/delete an item-master, a vendor-master, a purchase order and a contract; (2) request an advance from accounts; (3) check inventory of raw material, work-in-progress (WIP), and finished goods; and (4) look for demands.

P: BUS ADM 384 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall Only.

**BUS ADM 384. Supply Chain Management. 3 Credits.**

This course allows students to understand the components of Supply Chain Management (SCM), and its role within and across the function in an enterprise. The objectives of supply chain management are to create value, build a competitive infrastructure, leverage worldwide logistics, synchronize demand and supply, and to measure performance. SCM 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 an overview of the supply chain management function and associated concepts. The course provides an understanding of the activities involved in this function. This course also provides a basic understanding of the analytical tools and applications used in SCM. The course introduces some challenges in managing global supply chains. The course provides an opportunity to work in teams, explore a real-life situation related to concepts taught in the course, and to do a research project.

P: Sophomore status

Fall and Spring.

**BUS ADM 435. Foundations of Strategic Information Management. 3 Credits.**

Information Technology (IT) is an integral part of all organizations and plays a vital role in all functional areas such as marketing, accounting, finance, human resources, operations, and supply chain. It also serves in enabling key applications such as business intelligence, data analytics, security, internal controls, and new-product planning among others. Owing to the dynamic nature of IT, it is imperative that organizations continuously reevaluate their strategic alliance with IT. Thus a well-designed, and strategically managed IT has the potential to dramatically improve a business's competitive advantage. The course discusses the significant managerial aspects of IT's increasing impact on today's organizations, along with IT trends and their business implications, security, privacy and ethical issues.

P: Bus Adm 230 or Business Analysis Emphasis

Spring.

**BUS ADM 436. Analysis & Design of Business Information Systems. 3 Credits.**

The competence in business information systems analysis and design (SA&D) is critical to not only information technology professionals but also to business managers since the fit between information technology and organizational business needs is argued to be a key determinant of firm performance. Students will learn system analysis and design concepts and technologies required to develop business information systems. The emphasis is on system life cycle concepts ranging from a system's planning to its discontinuance. The course will also attempt to evaluate the ethical issues involved as well as the business reasons why some IT projects succeed while others fail.

P: BUS ADM 435 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall Only.

**BUS ADM 452. Business Analytics. 3 Credits.**

This course focuses on concepts pertaining to business analytics and its application in the business environment using various techniques. Upon completion of this course, the student will gain the knowledge of data summarization and visualization, descriptive and predictive data analytics and decision making along with a variety of analytics terminologies. The course covers various topics such as data description, data visualization, regression models, data mining, optimization models and simulations. Students also will be expected to learn how to apply analytic methods to real business data through performing hands-on examples and projects over the course of semester and using statistical packages (e.g., R, Tableau, XLMiner).

P: Bus Adm 216 or Math 260; and Bus Adm 230 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. Small Business Management & Family Entrepreneurship. 3 Credits.**

This course focuses on topics in small business management, family business, and family entrepreneurship. These include: buying (into), growing, and selling or exiting a small business and family business; self-employment, employees, and contractors; microbusiness topics; hiring, training, and employee development in small and family businesses; finance and accounting functions in small and family businesses; intellectual property and forms of business ownership; family entrepreneurship strategies; and franchising strategies.

P: Junior status and an overall minimum GPA of 2.0; Bus Adm major or minor or Acctg major or minor or Entrepreneurship Certificate or ONLINE Majors of: Integrative Leadership/Organizational Leadership (BA & BAS) with a Business Administration emphasis

Fall and Spring.

**BUS ADM 485. New Venture Acceleration. 3 Credits.**

In this course, students will be developing real high growth-oriented businesses based on an identified opportunity in the market. Topics include high growth-oriented firms and technology-based firms, business model design, customer development and acquisition, value proposition development, minimum viable product development, and skills to present well to equity investors.

P: Junior status; Bus Adm 371 and Bus Adm 373; Bus Adm major or minor or Acctg major or minor or Entrepreneurship Certificate.

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. Course is repeatable for credit.

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. Course is repeatable for credit.

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 104. Survey of General Chemistry. 4 Credits.**

A one-semester introductory course in college Chemistry including an introduction to organic chemistry.

**CHEM 105. Survey of Organic and Biochemistry. 3 Credits.**

A foundational course in the chemical makeup and metabolic processes of living organisms. Consists of lectures and may also include discussions and demonstrations.

**CHEM 106. Survey of General Chemistry Lab. 1 Credit.**

Laboratory to accompany CHEM 104.

**CHEM 107. Survey of Organic and Biochemistry Lab. 1 Credit.**

Laboratory to accompany CHEM 105.

**CHEM 108. Survey of General, Organic and Biochemistry. 3 Credits.**

Chemistry and measurements; states of matter and changes of state; atoms and elements; ionic and molecular compounds; chemical reactions; solutions; acids, bases and pH; organic nomenclature; introduction to organic functional groups, physical properties and reactions; carbohydrate structure and function; amino acids and protein structure and function; lipid structure and function; nucleic acid structure and function.

P: Math 101 or Math Placement of Math 104 or greater, and Chem 109 or conc enr.

Spring.

**CHEM 109. Survey of General, Organic, and Biochemistry Laboratory. 1 Credit.**

Laboratory Course that accompanies Chem 108.

P: Chem 108 or concurrent enrollment

Spring.

**CHEM 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**CHEM 201. Math for Chemistry Discussion: Principles of Chemistry I. 1 Credit.**

This discussion course is designed to supplement the concepts presented in CHEM 211/213. Activities will focus on early exposure to math concepts in time for use in CHEM 211/213, deeper explorations of the mathematics and chemistry concepts addressed in these courses, and mathematics and chemistry skills necessary for success in CHEM 211/213.

P: Concurrent enrollment in CHEM 211/213.

Fall Only.

**CHEM 202. Math for Chemistry Discussion: Principles of Chemistry II. 1 Credit.**

This discussion course is designed to supplement the concepts presented in CHEM 212/214. Activities will focus on early exposure to math concepts in time for use in CHEM 212/214, deeper explorations of the mathematics and chemistry concepts addressed in these courses, and mathematics and chemistry skills necessary for success in CHEM 212/214.

P: Concurrent enrollment in CHEM 212/214.

Spring.

**CHEM 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.

**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 greater or eq or concurrent enrollment in MATH 104 & 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. 1-6 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.

**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 Chem 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 Chem 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 306. Organic Chemistry Lab I & II. 2 Credits.**

Basic laboratory techniques for organic chemistry including commonly used synthetic methods, purification and characterization of reaction products.

**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 Chem 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; and Chem 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 and Spring.

**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; Chem 207 with a C or better

Fall 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 423. Polymer Chemistry Laboratory. 1 Credit.**

Laboratory course to accompany CHEM 420

P: CHEM 420 or conc. enr.

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.**

Course is repeatable for credit; may be taken 10 times for a total of 10 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. Course is repeatable for credit.

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. Course is repeatable for credit.

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.

## Chinese (CHINESE)

### Courses

**CHINESE 101. Introduction to the Chinese Language I. 4 Credits.**

Elementary modern Mandarin, for students with no previous training in the language.

**CHINESE 102. Introduction to the Chinese Language II. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing Chinese.

P: none;. REC: 1 yr of high school Chinese or 1 semester of college Chinese.

Spring.

## 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 and Spring.

**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.**

First Year Seminar, topics vary.

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 and Spring.

**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 and Spring.

**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. 1-6 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.

**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 Only.

**COMM 304. Sports, Media, and Society. 3 Credits.**

Sports are a massive part of our personal, social, and professional lives. This course navigates the often complex web of connections, issues, and relationships that characterize our relationship with sports, with a particular focus on communication and media-based issues. We will discuss the nature of fandom, the mythology of sports and how media professionals cover these issues. The course will also take a deeper look at special topics in sports, including the performance of race and gender in sports, the connection between sports and nationalism, and how we use sports as communication shorthand. This course is intended to develop your media literacy and critical thinking skills, as well as a keen appreciation of the aspects of sports that, while not often discussed in the mainstream, are vital to any professional involvement in sports education.

P: At least 15 credits in COMP SCI, INFO SCI or COMM

Fall Only.

**COMM 305. 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 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

Spring.

**COMM 307. Video Production. 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: 15 credits of Comp Sci, Info Sci or Comm

Fall and 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 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 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 370. Health Communication Campaigns and Strategies. 3 Credits.**

We will focus on communication research and theory as it relates to health communication campaigns. This is a useful class for students who are interested in understanding how communication campaigns are planned, implemented, and evaluated. This course is targeted at students that want to study a growing area in applied communication studies, or who are considering a career in the health care field. This course focuses on the important role communication plays in the delivery of effective health campaign messages.

P: at least 15 credits of core supporting courses in Communication

Fall Only.

**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 378. Advanced Video Production. 3 Credits.**

This course focuses on advanced video production and editing techniques, with a specific focus on documentary storytelling and hands-on video experience outside of a studio setting. Students should complete COMM 307 before enrolling in this course.

P: at least 15 credits of supporting core courses in Communication

Fall and 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

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, COMM 305

Spring.

**COMM 390. Sports Writing, Promotion, and Public Relations. 3 Credits.**

This course is one of the practical components of the Sports Communication emphasis in the UWGB Communication department and is aimed at helping you develop hands-on skills in the promotion, media, and public relations branches of sports communication. In this class you will learn about the unique challenges of strategic communication in sport, from the organizational requirements of different sports communication outlets to the demands of marketing and public relations in the field as well as how to write interviews and other stories for sports media. You will also develop examples of different forms of strategic sports communication to add to your portfolio or demo reel.

P: 15 credits of Comp Sci, Info Sci or Comm

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, COMM 302

Spring.

**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, COMM 302

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.

Fall and 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 470. Health Communication and the Internet. 3 Credits.**

This course examines how Internet technology has impacted the healthcare system and personal health management. We will focus on how people are using (and misusing) the Internet for their health needs and the resulting impact this is having on communication. More specifically, we will examine online health information sources, online health information-seeking practices, provider-patient communication, personal health management, health care consumerism, computer-mediated social support, telemedicine, privacy management, online personal health records, and the impact of social media on health information and communication.

P: at least 15 credits of core supporting courses in Communication

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, COMM 302

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, COMM 302

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, COMM 305

Fall and 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. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

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. Course is repeatable for credit; may be taken 12 times for a total of 12 credits.

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. Course is repeatable for credit.

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. Course is repeatable for credit.

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 97. Math Preparation for Social Science Statistics. 1 Credit.**

This course will cover the math preparation you will need to be successful in Comm Sci 205 (e.g., order of operations, fractions, lines). We will pace the course so that we practice the math concepts that match up to each week's statistical concepts. Offered on a pass/no credit, non-degree credit basis only.

P: Concurrent enrollment in Comm Sci 205

Fall and Spring.

**COMM SCI 145. 21st Century Citizen. 2 Credits.**

In this course students will develop their capacities to become true stakeholders in their education and in their communities. We will explore the diverse contexts impacting learning and engaged citizenship, examine relevant social problems from an interdisciplinary perspective, and identify a problem to address via a large-scale service project in our spring GPS class. Along the way, students will build leadership and communication skills, self-awareness, and the habits of mind required to get the most from your college experience.

P: Participation in the GPS (Gateways to Phoenix Success) Program

Fall Only.

**COMM SCI 146. GPS Spring Seminar. 1 Credit.**

This course will serve as a capstone to the GPS program first year experience, and will challenge students to apply the knowledge and skills they've gained thus far in GPS to address a real-world problem. Students will develop and implement a service learning project with their class over the course of the semester, and will continue the work to build knowledge and skills critical to personal and career success.

P: Participation in the GPS program

Spring.

**COMM SCI 148. GNSS Support Protocol. 1 Credit.**

One-credit course that will give incoming veterans an introduction to what to expect in the college environment, information about how to connect with university resources and local VA services, and to develop skills to be successful in their academic work at the university.

Fall Only.

**COMM SCI 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**COMM SCI 205. Social Science Statistics. 4 Credits.**

An introduction to descriptive and inferential statistics using social science examples. Data analysis and interpretation including computerized statistical software in a lab setting.

P: Comm Sci 97; or Concurrent or prior enrollment in Comm Sci 97 or WPT:MFND test score  $\geq 416$ ; or Post-baccalaureate status

Fall and Spring.

**COMM SCI 299. 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.

**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. 3 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 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.

P: COMP SCI 201 or COMP SCI 256 with at least a C grade

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 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.

P: Math 104 with at least a C grade or WPT-MFND score  $>465$  and WPT-AALG score  $>525$  and WPT-TAG score  $>525$

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: None

Fall and Spring.

**COMP SCI 292. 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.

P: COMP SCI 201 and COMP SCI 256 with at least a C grade in both.

Fall Only.

**COMP SCI 299. 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.

**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 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 AND COMP SCI 316 with at least a C grade in both.

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 with at least a C grade. REC: COMP SCI 371

Fall 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 COMP SCI 256 with at least a C grade in both.

Fall Only.

**COMP SCI 357. Theory of Programming Languages. 3 Credits.**

Comparison of several common languages and discussion of advantages and disadvantages of compiling and interpreting. Discussion of language design and syntax, data types, variables, constants, binding and scope of a variable and data handling procedure.

P: COMP SCI 316 with at least a C grade.

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 256 with at least a C grade.

Spring.

**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.

P: COMP SCI 256 with at least a C grade.

Fall Only.

**COMP SCI 371. Advanced Object-Oriented Design. 4 Credits.**

Advanced object oriented design techniques in C++, including: objects, 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.

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 201 and COMP SCI 221 with at least a C grade for both. REC: COMP SCI 316  
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, COMP SCI 316, MATH 202 with at least a C grade in all three.  
Spring.

**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 with at least a C grade  
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 with at least a C grade. REC: COMP SCI 371  
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 with at least a C grade. REC: COMP SCI 351 and MATH 202  
Fall Only.

**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 256 with at least a C grade.  
Spring Odd.

**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. 3 Credits.**

A project course in which a student does reading in computer science journals and produces a major research paper.  
P: COMP SCI 358 and COMP SCI 361 with at least a C grade in both.  
Fall Only.

**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. Course is repeatable for credit.  
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. Course is repeatable for credit.  
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 team-taught 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, as well as the opportunity to apply these theories and examples in a high-impact experience.  
Fall and Spring.

**DJS 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.  
Reserved for New Incoming Freshman  
Fall and Spring.

**DJS 200. Mentoring for Equity and Inclusion. 3 Credits.**

Students will serve as mentors for Green Bay high school students participating in the Federal TRIO Upward Bound program. Mentors will help promote the development of skills critical to academic success, will encourage students to aspire to college, will help overcome barriers to college attainment, and will act as a role model and resource for the underrepresented students served by TRIO programs. A critical component of mentoring will involve learning about the barriers that have historically limited access to college, including low income, racism, and sexism. Mentors will work with local TRIO students at least four hours per week for twelve weeks and will provide mentoring as well as tutoring support.  
Fall and Spring.

**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 221. American Law in Historical Perspective. 3 Credits.**

Americans hold equality to be one of the central principles of our democracy. Our Declaration of Independence articulates the ideal that “all men are created equal.” And our courts are intended to embody the principle that justice is blind—all are to be equal before the law. At the same time, our nation has embraced profound legal inequalities from the moment of its inception—most conspicuously in the law of slavery, but also in the legal regimes that governed the status of women, immigrants, wage earners, Native Americans, and others. This course examines the ideal of legal equality in historical perspective, beginning with the colonial era and ending in the present day. We will investigate transformations in the legal meaning of privacy, citizenship, and civil rights over time, and consider the terms in which we uphold “equality” in our own historical moment.  
Spring Odd.

**DJS 241. Introduction to Women's & Gender Studies. 3 Credits.**

Interdisciplinary introduction to the study of gender, including identity, expression, and sexuality; the influence of gender on social institutions and structures; and an intersectional examination of women, men, and LGBTQ+ lives in the United States historically and today.  
Fall and Spring.

**DJS 299. 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.

**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 101  
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.**

This course examines the development of constitutional law across a variety of issue areas in the United States Supreme Court, focusing on civil liberties and civil rights. It is taught using the case law method, which consists of reading judicial opinions. In addition to learning about our individual freedoms and rights, we will identify, analyze, and evaluate the legal questions and legal arguments raised in Supreme Court cases.

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 101

Spring.

**DJS 348. Gender and the Law. 3 Credits.**

The changing legal status of women and LGBTQ+ people in relationship to other social forces; major historical landmarks in the development of their legal rights and current status in 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 OR History 205 OR History 206 OR DJS 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.

Spring.

**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. REC: Anthro 100 or Sociol 101

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. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

REC: DJS 101

Fall and Spring.

**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 400. Mentoring for Equity and Inclusion. 3 Credits.**

Students will serve as mentors for Green Bay high school students participating in the Federal TRIO Upward Bound program. Mentors will help promote the development of skills critical to academic success, will encourage students to aspire to college, will help overcome barriers to college attainment, and will act as a role model and resource for the underrepresented students served by TRIO programs. A critical component of mentoring will involve learning about the barriers that have historically limited access to college, including low income, racism, and sexism. Mentors will work with local TRIO students at least four hours per week for twelve weeks and will provide mentoring as well as tutoring support. 400 Level students will complete an additional substantive project.

P: DJS 101

Fall and Spring.

**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. This capstone includes high impact experiences such as community-based learning, collaborative assignments, or undergraduate research. Course is not repeatable for credit.

P: DJS 361 and Eng Comp 105

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. Course is repeatable for credit.

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. Course is repeatable for credit.

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 231. 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, Art 107 and Design 131 with at least a C grade; REC: Art 105 or Art 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 231 with at least a C grade

Fall and Spring.

**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 advanced communications projects such as web design and epublication, filmmaking and storytelling. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 credits.

P: Design 332 with at least a C grade or with consent of instructor.

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.

Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

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

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

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

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. Course is repeatable for credit. 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 102. Economics of the Modern World. 3 Credits.**

An introduction to the study of economics that examines economic systems, global interdependence, and provides an orientation to economic concepts. Among the topics included are competitiveness of markets, measures of economic output, structure of the U.S. financial system, and global trade, as well as types of failure within economic systems, social equity and economic justice. Emphasis is placed upon problems, current issues, and the rationale for economic policy.

Fall and Spring.

### **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 210. Quantitative Methods for Economists. 3 Credits.**

Economics is a social science that utilizes quantitative techniques to both express abstract concepts and to bring such concepts to real life through application. Logically consistent models are constructed using mathematical tools. This course is introductory. Its purpose is to introduce students to the application of quantitative methods in economics and to develop their skills in the usage of such methods. Topics will range from basic mathematical principles to specific sub-components of more advanced mathematics courses, topics having application to economic optimization problems, calculation of total values, marginal analysis, and present/future values for economic decision making.

P: University Math competency

Fall Only.

### **ECON 299. 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.

### **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.**

Examines 1) the economic rationale for policy, 2) the various types of policy approaches used, and 3) alternative policy options for managing the development and sustainable use of natural resources (broadly defined to include environmental resources). Particular attention is paid to the longer time horizon required for sustainability and maintenance of quality ecosystems, a necessary condition, or precursor, to having a dynamic and vibrant economic system over time.

P: ECON 102 or ECON 202 or 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 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 Econometrics. 3 Credits.**

An introduction to econometric techniques in the analysis of economic phenomena that incorporates the use of mathematical and statistical tools.

P: Econ 202 or ECON 203; ECON 210 or MATH 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 102 or ECON 202 (strongly preferred) or ECON 203

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 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 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 480. Capstone: Seminar in Economic Literature and Issues. 3 Credits.**

The purpose of this seminar is to examine a range of theoretical and empirical contributions to the economic literature, both classic contributions as well as major contemporary contributions.

P: Senior standing

Spring.

**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 Econ 203

Fall Only.

**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. Course is repeatable for credit.

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. Course is repeatable for credit.

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.**

First Year Seminar, topics vary.

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

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 208. Concepts, Issues, and Field Experience in Education. 3 Credits.**

This course teaches the practical skills and dispositions needed to effectively work with children, teachers, staff and administrators in a K-12 setting. Through extensive field work, students learn the necessary behaviors needed to develop successful relationships with 6th through 12th graders, and experience early classroom involvement and individual interactions. This course is designed to introduce new and informed ways of thinking about teaching and learning. The class requires 35 hours of service in area public schools, reliable transportation needed.

P: Caregiver background check and TB test required

Fall and Spring.

**EDUC 209. Phuture Phoenix Service Learning. 1-3 Credits.**

This course teaches the practical skills and dispositions needed to effectively work with children, teachers, staff and administration in a K-12 setting. Through extensive field work, students learn the necessary behaviors needed to develop successful relationships with 6th through 12th graders, and experience early classroom involvement and individual interactions. This course is designed as a continuation of EDUC 208; Phuture Phoenix Field Experience and will expand the student's way of thinking about teaching and learning. Students will participate in 1, 2 or 3 components of the overall experience which will define the credit hours earned. Course is repeatable for credit; may be taken 6 times for a total of 6 credits.

P: EDUC 208, Phuture Phoenix Field Experience and instructor approval; Caregiver background check and TB test required

Fall and Spring.

**EDUC 280. Instructional Technologies: Evaluation, Production and Application. 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.

P: adm to teacher educ or candidate status.

Fall and Spring.

**EDUC 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.

**EDUC 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: Full admission to the Education program, concurrent enrollment with EDUC 324

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.**

Course is repeatable for credit if topics differ.

**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. Course is repeatable for credit.

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. 1-6 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.

**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 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 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: Admission to teacher education and EDUC 361; Concurrent enrollment with EDUC 309 and EDUC 421

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: Admission to teacher education and EDUC 361; Concurrent enrollment with EDUC 307 and EDUC 421

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 REC: concurrent enrollment in EDUC 351

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 REC: concurrent enrollment with EDUC 351

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 REC: concurrent enrollment with EDUC 351

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 REC: concurrent enrollment with EDUC 351

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 REC: concurrent enrollment with EDUC 351

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 361

Spring Odd.

**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: Admission to Education minor or Candidacy Status

Spring.

**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; EDUC 361 or EDUC 363; concurrent enrollment with EDUC 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, the role of science standard in instruction.

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. This course requires field work.

P: Admission to Education or candidacy status required; TB test and criminal background check

Fall Only.

**EDUC 334. Teaching General Music in the Elementary and Middle Schools. 3 Credits.**

Philosophical and learning theories of music education. Children's developmental and music needs; curriculum development; traditional and contemporary methods and selection of appropriate literature is emphasized.

P: adm to teacher educ and Educ 361 and Music 254

Fall Even.

**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.

P: adm to teacher educ or candidate and conc enrl Educ 290.

Fall and Spring.

**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.

P: adm to teacher educ REC: concurrent enrollment in Educ 310, 311, 312, 313, 314, 316 or 317

Fall and Spring.

**EDUC 352. Social and Family Influences on 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

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. The course combines both theory and practice in the art and science of teaching. Field Experience may be required.

P: Adm to teacher educ; grade of B or better in EDUC 280, 290 and 340

Fall and Spring.

**EDUC 363. Introduction to the Art and Science of Teaching in Early Childhood. 3 Credits.**

As part of a series of formalized educational experiences, this course establishes the foundation for understanding the profession of teaching and the nature of learning, with a special focus on early childhood education (ECE). The course will exam topics specific to the NAEYC Standards for Early Childhood, including the role of schools in society, developmental theories, curriculum, diversity, and teacher professionalism. This course requires a field placement.

P: Accepted to the Bachelor of Applied Studies program with an ECE emphasis

Fall Only.

**EDUC 405. Student Teaching. 6-12 Credits.**

Supervised student teaching or internships in a PK-12 classroom at a level corresponding to the license. Offered on a pass/no credit basis only. Additional special course fee required for students exercising options for extra administrative and travel costs. Course is repeatable for credit.

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.

Fall Only.

**EDUC 418. Organization and Administration of Athletics. 2 Credits.**

This course is designed to encompass the various phases of organizing and administering of an athletics program with application to interscholastic, collegiate and nonacademic environments such as sports clubs and public athletics. This course will focus on real-world leadership issues such as hiring coaches; budget development; retaining officials; recruiting workers for athletics contests; booster club coordination; and supervision of coaches and athletics.

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.

P: EDUC 416

Spring.

**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. Field experience required.

P: Admission to teacher education and EDUC 361; Concurrent enrollment with EDUC 307 and EDUC 309

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 425. The Early Years of Literacy and Language Development. 3 Credits.**

This course will provide a critical examination of how to help children read and write, particularly in ELL contexts. During this course, students will have opportunities to examine a variety of issues related to teaching literacy to young children, including oral/written language development, emergent literacy/biliteracy, reading fluency, reading comprehension, phonics and vocabulary development, early writing acquisition, differentiation of instruction, children's literature, assessment in early literacy, effective reading/writing strategies, parental involvement, and reading-writing connections. Also, different theories and philosophies regarding children's language/literacy development will be addressed. Developmentally appropriate practices will be also integrated throughout the course.

P: Admitted to the BAS-ILS with ECE emphasis program

Fall Only.

**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

Fall Only.

**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. Field Hours are required for this course.

P: Admission to teacher Education or candidacy status required; TB test and criminal background check req

Spring.

**EDUC 444. Current Trends in Early Childhood Education. 3 Credits.**

This course provides an opportunity to explore the critical trends and issues being debated within the field of Early Childhood Education. Further, this course will examine current trends, historical origins, recurring issues, research findings, and resulting program developments in the field of Early Childhood Education. The topics will be examined through historical and contemporary theory and practices with emphases on themes linked to policy and advocacy. This course examines trends, issues from multiple perspectives, and serves as an impetus to students' understanding of the current tensions in the field. Finally, this course will provide students with a deeper understanding of current trends and will also develop the skills needed to critique ideas and issues surrounding early education.

P: Admission to the BAS ILS degree program, with emphasis in early education

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 childhood minor.

**EDUC 446. Trends in Bilingual Education. 3 Credits.**

Designed for pre-service teachers and practicing educators, this course is a comprehensive approach to the current trends in Bilingual Education (Spanish/English) that bridges pedagogical theory and practice. Students will be introduced to essential concepts and theories, including effective teaching methodologies, curriculum design and assessment tools. This course will help students develop a sociocultural perspective about the contexts and realities of bilingual learners.

Spring.

**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 495. Special Topics. 1-4 Credits.**

Course is repeatable for credit if topics differ.

**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. Course is repeatable for credit

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. Course is repeatable for credit

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 198. First Year Seminar. 3 Credits.**

This course will introduce students to the field of mechanical engineering, and the relationships between science, mathematics, and communication for the analysis, design, and manufacture of mechanical products and systems. It will also include ethics and professionalism in engineering.  
Spring.

### **ENGR 204. Programming for Engineers. 2 Credits.**

This course introduces students to the fundamental principles of programming for solving engineering problems and familiarizes students with the process of computational thinking and translation of real life engineering to computational problems. Programming languages covered include MATLAB, Python and C.

P: ENGR 198 with at least a C , MATH 202 with at least a C, and declared Mechanical Engineering major  
Fall Only.

### **ENGR 208. Fundamentals of Electric Circuits. 3 Credits.**

This course provides an introduction to DC and AC electrical circuit analysis, electronic devices and circuits, transducers, electric machines, and power transmission.

P: MATH 203, PHYSICS 201, ENGR 198 all with a C or higher declared major in Mechanical Engineering  
Spring.

### **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 with a C or higher and declared major in either Mechanical Engineering or Mechanical Engineering Technology  
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 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: ENGR 214 or concurrent enrollment and ET 101 with a C or higher; Major in Mechanical Engineering Tech  
Spring.

### **ENGR 221. Mechanics of Materials Lab. 1 Credit.**

This lab teaches students an applied analysis of the distribution of forces in static structures; analysis of axial, torsional, and bending stresses; and loading analysis of systems.

P: ENGR 220 or concurrent enrollment  
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 311  
Spring.

### **ENGR 301. Engineering Materials. 2 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.

P: ET 206 with a C or higher OR CHEM 212 with a C or higher  
Fall Only.

### **ENGR 312. Engineering Measurements. 2 Credits.**

This course teaches students instrumentation and techniques for measurement of mechanical phenomena. It includes generalized measurement systems, characteristics of dynamic signals, calibration, recording systems, error and statistical analysis.

P: ENGR 208 and PHYSICS 202, both with at least a C and MATH 260 with at least a C  
Fall Only.

**ENGR 322. Engineering Measurements Lab. 1 Credit.**

This course introduces students to the laboratory analysis of Engineering Measurements including instrumentation and measurement systems, calibration, error and statistical methods applied to engineering processes.

P: ENGR 312 with at least a C or concurrent enrollment  
Fall Only.

**ENGR 324. Engineering Thermodynamics. 3 Credits.**

This course teaches student engineering applications of thermodynamics including the first and second laws, behavior of condensable and non-condensable substances, analysis of open and closed systems, equations of state, and power and refrigeration cycles.

P: MATH 203 with at least a C, ET 206 or CHEM 211, 212, 213, and 214 with at least a C; declared major in Mechanical Engineering or Mechanical Engineering Technology  
Spring.

**ENGR 326. Numerical Methods. 3 Credits.**

This courses teaches students applied numerical analysis for linear and non-linear engineering problems; systems of linear equations, non-linear equations, eigen value problems, and optimization techniques; approximate numerical integration and differentiation; developing numerical methods; and solving for initial and boundary value problems.

P: MATH 305 with a C or higher or concurrent enrollment and ENGR 204 with a C or higher  
Spring.

**ENGR 336. Fluids. 3 Credits.**

This course provides an introduction to fluid properties, fluid statics, and fluid dynamics; potential flow; dimensional analysis; closed conduits and external flow; boundary-layer theory; compressible flows; and turbomachinery.

P: ENGR 214, MATH 305, and PHYSICS 202 all with a C or higher  
Fall Only.

**ENGR 337. Fluids Lab. 1 Credit.**

This laboratory course introduces students to the experimental analysis of Fluid Dynamics concepts including measurement of fluid properties, applications of Bernoulli's equation, and fluid power systems.

P: ENGR 336 with a C or higher or concurrent enrollment  
Fall Only.

**ENGR 340. Analysis of Dynamic Systems. 3 Credits.**

This course introduces students to mathematical modeling and analysis of dynamic systems with mechanical, thermal, and fluid elements. Topics include time and frequency domain solutions, linearization techniques, state space modeling and solutions.

P: ENGR 214 with a C or higher and MATH 305 with a C or higher  
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 430. Heat Transfer. 3 Credits.**

This course teaches students fundamental concepts of steady-state and transient conduction, convection, and radiation. It also includes an introduction to heat exchanger principles and applications.

P: ENGR 324 and MATH 305, both with a C or higher  
Fall Only.

**ENGR 431. Thermal Lab. 1 Credit.**

This laboratory course includes experimental analysis of Fluid Dynamics concepts including measurement of fluid properties, applications of Bernoulli's equation, and fluid power systems.

P: ENGR 430 with a C or higher or concurrent enrollment  
Fall Only.

**ENGR 432. Automatic Controls. 4 Credits.**

This combined lecture and lab course gives students an introduction to feedback control system concepts; mathematical modeling of mechanical, hydraulic, electro-mechanical, and servo systems; feedback system characteristics and performance; stability; design; and compensation of control systems.

P: ENGR 208 and ENGR 340, both with a C or higher  
Spring Even.

**ENGR 460. Senior Design. 3 Credits.**

Senior design is the mechanical engineering synthesis course in which students complete a senior design process that includes project proposal, design definition, design analysis, design completion, oral presentation, and a written report.

P: ET 360, ENGR 336, and ENGR 430 all with a C or higher  
Spring.

**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. Course is repeatable for credit.

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.

P: None

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; Major in Environmental Engineering Tech

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 101 with at least a C grade or WPT-MFND score >465 and WPT-AALG score >525 and a declared major in Mechanical, Electrical, or Environmental Engineering Technology

Fall and 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 with a C or higher and declared Mechanical Engineering Technology major OR ENGR 198 with a C or higher and declared Mechanical Engineering major

Fall Only.

**ET 118. Fluids I. 3 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 with C or higher; Major in Environmental or Mechanical Engineering Tech

Spring.

**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; Major in Electrical or Mechanical Engineering Tech

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 with C or higher; Major in Electrical Engineering Tech

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.

P: ET 101 with a C or higher and MATH 104 or higher and Electrical or Mechanical ET major

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 with a C or higher

Fall Only.

**ET 201. Introduction to Environmental Engineering. 3 Credits.**

This course is designed to educate students in the principal and practice of air quality management and solid and hazardous waste management. This includes sources of air pollution, health and environmental effects of air pollution, and regulations governing air pollution. For solid waste this includes sources of solid waste, disposal of solid waste, regulations, and health and environmental effects.

P: CHEM 211 and CHEM 213 with a C or higher and Major in Environmental Engineering Tech

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 with a C or higher

Fall Only.

**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 and either Mechanical Engineering or Mechanical Engineering Technology major

Fall Only.

**ET 207. Parametric Modeling. 3 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 105 with a C or higher or declared major in Mechanical Engineering

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: ENGR 220 with a C or higher

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 with a C or higher

Spring.

**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 with a C or higher

Fall Only.

**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 233 both with a C or higher

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 with a C or higher

Spring.

**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: ET 207, ENGR 220, and Math 203 all with a C or higher

Fall Only.

**ET 311. 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, party circuits, multi-vibrators, and glitch-free clocks are introduced.

P: ET 233 with a C or higher

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: ET 118 and Math 203 both with a C or higher

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 116, ET 207, and ET 221 all with a C or higher

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, OR instructor consent

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 with a C or higher and either PHYSICS 103, PHYSICS 201 with a C or higher, or equivalent

Spring.

**ET 330. Hydrology. 3 Credits.**

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: MATH 104 with at least a C or higher math course

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 Even.

**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. 2 Credits.**

This course emphasizes the principles of data analysis using advanced statistical software (such as R, SAS, etc.). It employs primarily environmental examples to illustrate procedures for elementary statistical analysis, regression, analysis of variance and nonparametric statistics.

P: MATH 260

Fall and Spring.

**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 233 and ET 240 both with a C or higher

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 with a C or higher

Fall Only.

**ET 344. Industrial Electronics and Control. 3 Credits.**

This course covers the fundamental concepts of power electronics, characteristics of static power semiconductor devices (BJT, MOSFET, IGBT, Thyristors), AC/DC power converters: uncontrolled and controlled rectifiers (single phase and three phase), dual converter, AC/AC power converters: phase controlled converters (single phase and three phase), AC switch, cycloconverter. DC/DC converters: choppers (step down and step up), switching regulators (buck, boost, buck-boost), DC/AC converters: single phase and three phase inverters, and various power control applications.

P: ET 311 with a C or higher

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 with a C or higher

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: MATH 203 with a C or higher and either PHYSICS 104 or PHYSICS 202 or equivalent with a C or higher

Fall Only.

**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 with a grade of C or higher

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 and either Electrical, Environmental, or Mechanical Engineering Technology major or junior standing and Mechanical Engineering major

Spring.

**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 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 mechanical engineering and mechanical engineering technology programs will form teams and will design and build a project using an electro-mechanical control system.

P: declared major in Mechanical Engineering Technology and both ET 130 and ET 322 with a C or higher or declared major in Mechanical Engineering and ENGR 208, ENGR 220, and ET 221 all with a C or higher

Spring.



**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 both with a grade of C or higher

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. Course is not repeatable for credit.

P: junior or senior standing; Major in Electrical, Environmental or Mechanical Engineering Tech

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 each student will provide a written report upon completion.

P: ET 360 and senior standing; Major in Electrical, Environmental or Mechanical Engineering Tech

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; Major in Environmental Engineering Tech.

**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 Odd.

**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.

**ET 444. Geochemistry of Natural Waters. 3 Credits.**

This class will explore the theory and application of aqueous geochemistry principles to the study of surface and groundwater systems at low to moderate temperatures. The class will focus on inorganic processes including the hydrologic cycle, chemical weathering, chemical activities in natural waters, thermodynamics, kinetics, acid/base equilibria, carbonate chemistry, acid water systems, heavy metals, redox reactions, saline waters, and ancient fluids preserved in fluid inclusions.

P: GEOSCI 202, CHEM 211 & CHEM 212

Fall Even.

**ET 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.

**ET 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. Course is repeatable for credit.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

## English (ENGLISH)

### Courses

**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 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**ENGLISH 200. Arts Entrepreneurship. 3 Credits.**

Foundational course in securing arts and humanities grant support from federal, regional, and local agencies. Projects include grant writing for students' own individual arts and humanities projects, and seeking grants on behalf of clients in diverse fields (ie education, social services, arts and culture).

P: Declared major or minor in English, Writing, or Humanities. REC: English 105 OR act OF 32

Fall Odd.

**ENGLISH 206. Women in Literature. 3 Credits.**

Surveys both women as writers and women as characters in literature, as well as the representation of gender and sexuality in literature. Concerned with literature from two or more cultures. Writers may include Mary Shelley, Audre Lorde, Herculine Barbin, Marjane Satrapi, and Alison Bechdel. Course is not repeatable for credit.

Fall and Spring.

**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. 3 Credits.**

This course introduces students to important readings in world literatures from antiquity to the present, possibly focused on a specific culture, theme, or genre. Texts studied will derive from Europe, the Americas, Asia, Africa, and/or the Caribbean and Australia. Variable content. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

Fall and Spring.

**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 Sheephead Review, a literary magazine, from selecting submissions to editing the finished product. Projects include soliciting manuscripts and researching the literary market. Course is not repeatable for credit.

P: Eng Comp 105 or 228 or ACT English score of 32 or higher; REC: English 212.

Fall and Spring.

**ENGLISH 226. Grammar. 3 Credits.**

In-depth study of modern English grammar emphasizing distinctions between grammatical form and function, recognition of basic patterns underlying sentence structure, and usage of grammatical/mechanical knowledge to effectively copy-edit texts of various genres.

Spring Even.

**ENGLISH 264. Topics in Literature. 3 Credits.**

Introductory study of topics, through literature, with a focus on individual and social values. Topics may include subjects (i.e., monsters, murderers), genres (i.e., children's literature, literature of sports), and themes (i.e., religion, masculinity). Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: None. REC: English 105.

**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. 1-6 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 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. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

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. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

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. 4 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 306. Novel Revision Workshop. 4 Credits.**

Revision, structuring, development, and marketing of a 50,000+ word novel draft, including group critique of student work.

P: ENGLISH 305 or permission of instructor; Note: All students must enter this class with a completed novel draft of at least 50,000 words. REC: Eng 212

Spring Odd.

**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. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: Junior standing; Eng Comp 105 or ACT score of 32 or higher. REC: English 212.

**ENGLISH 315. The British Novel. 3 Credits.**

Survey of British novels and their adaptations, spinoffs, and fan culture from the genre's beginnings through the present day. Includes study of both significant and cult novels by a diverse array of British authors, such as Jane Austen, James Hogg, Oscar Wilde, Jeanette Winterson, Caryl Phillips, Sarah Waters, Monica Ali, and Zadie Smith.

P: English 290 or concurrent enrollment, Jr st.  
Fall Only.

**ENGLISH 320. Major Drama. 3 Credits.**

Study of one or more British, Irish or American dramatists and dramatic works. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

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. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

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. Sheepshead Review Practicum. 3 Credits.**

Hands-on experience in the production of the Sheepshead Review, UW-GB's journal of the arts, from selecting submissions to editing the finished product. Projects include soliciting manuscripts and researching the literary market. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: Eng Comp 105 or 228 or ACT English score of 32 or higher; REC: English 212.  
Fall and Spring.

**ENGLISH 326. Topics in Publishing. 3 Credits.**

Specialized study of a single topic publishing and publications history, such as Meddling Editors, The Book Arts, Russian Print Culture, or #WeNeedDiverseBooks. Repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: English 290 or Hum Stud 200  
Spring Even.

**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. Course is repeatable for credit if topics differ.

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. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 credits.

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. Course is repeatable for credit if topics differ.

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. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

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. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: English 290 or concurrent enrollment, Jr st.  
Spring.

**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. Course is not repeatable for credit.

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 400. English Capstone. 3 Credits.**

This course explores a topic in creative writing, literature, and/or editing and publishing from an interdisciplinary perspective and engages students with both literary and local communities.

P: English 290; Senior standing

Fall Only.

**ENGLISH 424. Book Editing Practicum. 3 Credits.**

Practical, hands-on experience editing and producing book-length texts. Depending on course topic, texts may be digital editions or print; skills may include copyediting, developmental editing, digital encoding, annotation, book design, layout, binding, trimming, budgeting, and/or marketing. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: English 290, or a declared emphasis in Digital and Public Humanities.

**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.

Fall Only.

**ENGLISH 436. Major Author(s). 3 Credits.**

Study of one or more important writers in British, Irish, or American literature. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

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 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. Course is repeatable for credit.

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. Course is repeatable for credit.

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.

## 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 95. English Composition Writing Studio. 1 Credit.**

Composition Writing Studio is a co-requisite course to ENG COMP 100. It is required for students who are provisionally admitted to ENG COMP 100 due to their ACT or SAT score, and must be taken simultaneously with ENG COMP 100. The Writing Studio provides extra support that is intended to help students succeed in ENG COMP 100. Offered on a pass/no credit, non-degree-credit basis only.

P: ACT English score of 16 or lower or SAT Critical Reading score of 440 or lower or SAT Reading score of 24 or lower; This course must be taken as a co-requisite with the matching section number of ENG COMP 100.

Fall and Spring.

### **ENG COMP 100. English Composition I: College Writing. 3 Credits.**

Emphasis on writing as a process and on techniques used in academic writing. Also emphasizes essay structure, informative writing and persuasive writing, and locating, evaluating, integrating, and citing source material, including multimodal sources. Reviews conventions of paragraph and sentence structure, punctuation, grammar, and usage as needed.

P: ACT English score: 17-24 OR SAT Critical Reading score: 450-580 OR SAT Reading score: 25-31

Fall and Spring.

### **ENG COMP 105. English Composition II: Composition and Rhetoric. 3 Credits.**

Further instruction and practice in the rhetorical techniques and types of writing covered in English Composition I, but with greater emphasis on rhetorical and critical analysis; may also include elements such as original research and the conventions of writing for specific academic communities.

P: Eng Comp 100 or 164 or ACT English score of 25 or higher or SAT Reading score of 32 or higher

Fall and Spring.

### **ENG COMP 164. English Composition for International Students. 3 Credits.**

An introductory course in academic writing for international students. Focuses on topic development, library research, paragraph and essay organization, the writing process, and language style.

P: International student status or permission of instructor.

Fall Only.

### **ENG COMP 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

### **ENG COMP 200. Professional Writing for Business Majors. 3 Credits.**

Professional Writing for Business Majors is a course focused on study and application of the best practices for writing in today's digital and intercultural workplace.

P: ENG COMP 100 or placement

Fall and Spring.

### **ENG COMP 299. 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.

### **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. Course is repeatable for credit.

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. Course is repeatable for credit.

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.

# Environmental Science (ENV SCI)

## Courses

### **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 103. Introduction to Environmental Sciences Lab. 1 Credit.**

Laboratory course to accompany ENV SCI 102.

### **ENV SCI 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

### **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. 1-6 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.

### **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 all with a C or better

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, OR instructor consent

Spring Odd.



**ENV SCI 330. Hydrology. 3 Credits.**

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: MATH 104 with at least a C or higher math course

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

Spring Odd.

**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. 2 Credits.**

This course emphasizes the principles of data analysis using advanced statistical software (such as R, SAS, etc.). It employs primarily environmental examples to illustrate procedures for elementary statistical analysis, regression, analysis of variance and nonparametric statistics.

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.**

This course introduces the fundamental concepts and approaches in dynamic modeling of environmental systems, in which system changes through time are a concern. The course will be focused on the creation, analysis, and interpretation of dynamic models within the framework of systems thinking for exploring a variety of environmental problems. Throughout the course, we will use the STELLA software as a tool to assist us in modeling of environmental systems.

P: Math 104, 202 or 203

Fall Only.

**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.

Fall and Spring.

**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. Course is repeatable for credit if topics differ; may be taken 6 times for a total of 9 credits.

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 Odd.

**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 or Env Sci 102 with at least a C grade.

Spring.

**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 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. Course is not repeatable for credit.

P: Junior standing and enrollment in Environmental Sustainability and Business certificate program.

**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. Course is repeatable for credit if topics differ.

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. Course is repeatable for credit.

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. Course is repeatable for credit.

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.

## Finance (FIN)

### Courses

**FIN 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 201  
Fall and Spring.

**FIN 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.

**FIN 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.

**FIN 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.

**FIN 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 Math 260 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5  
Fall and Spring.

**FIN 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.

**FIN 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.

**FIN 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.

**FIN 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.

## 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. Mentoring First Nations Youth. 3 Credits.**

In this is a service learning course that places college students in the field in K-8 classrooms as mentors and tutors to First Nations children. The course teaches skills and dispositions to work with children, teachers, staff and administrators in K-8 with an emphasis on First Nations education. Through extensive field work in K-8 classrooms, undergraduates develop successful relationships in the schools, experience early classroom involvement, and interact with youth. The course is unique in its emphasis on indigenous education and working with First Nations youth while learning from tribal Elder teachers.

P: As required to work in WI public schools, students must pass a back ground 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. 1-6 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.

**FNS 301. Oneida Language I. 3 Credits.**

A course on the Oneida language offered with the aid of indigenous 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. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

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 exploration of one First Nation located in Wisconsin: Anishinaabe (Ojibway), Oneida, Menominee, Potawatomi or Mohican. This course explores the culture, history, and contemporary status of one of these nations.

Spring.

**FNS 385. First Nations Intellectual Traditions. 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 Capstone 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. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: Hum Stud 225 and 226.

Spring.

**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: FNS 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 299. 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 300. SNC Consortium. 1-4 Credits.**

St. Norbert College course, extended to UWGB students through a consortium agreement.

**FRENCH 320. Intermediate Composition and Conversation. 3 Credits.**

Development of fluency through classroom practice in conversation and composition.

P: none; REC: 4 yrs h.s. or 4 sem college French.

Fall Only.

**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.**

Introduction to regional geography, exploring the relationship between physical ecologies and human ecologies. The course covers the regional geographies of the earth's major geographic realms.

Fall Only.

**GEOG 103. Environment and Society Lab. 1 Credit.**

A natural science course describing the human alteration of the physical environment with the resulting effects on air, water, soils, vegetation, animal life, & humans. Field trip(s) may be required. Meets DPI requirements for environmental education at some UW baccalaureate institutions.

Spring.

**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 211. American Ethnic Minorities. 3 Credits.**

The geography of American ethnic minority groups. An introduction to ethnic geography that examines the experience of people of African, Asian, Hispanic, and Native heritage in the United States and Canada. These ethnic minorities are studied using the major themes of cultural geography such as spatial distribution, migration patterns and locational patterns.

**GEOG 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.

**GEOG 299. 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.

**GEOG 321. Coastal Resources Policy and Management. 3 Credits.**

The importance of coastal resources, ranging from Wisconsin to the Great Lakes to our Pacific, Atlantic, and Gulf coasts. We will study issues of development, overuse, risk, and their consequent human, environmental, aesthetic and economic impacts.

Fall Only.



**GEOG 341. Urban Geography. 3 Credits.**

The course will focus on the different perspectives within contemporary urban geography and introduce students to social constructions of urban morphology and the interaction between social forces and spatial organization.

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.

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. Course is repeatable for credit if topics differ; may be taken 6 times for a total of 9 credits.

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. Glacial Geology & Landscapes. 3 Credits.**

This course explores the extremes in environmental behavior which characterize the last 2.6 million years of Earth's history during the Pleistocene and Holocene Epochs. The course will provide students with the skills necessary to be able to recognize and describe glacial landforms, the materials of which they are composed, and the geologic processes by which they form.

P: Geosci 202 with at least a C grade; REC: Geosci 203.

Fall 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. Earth System History. 3 Credits.**

The physical history of the Earth through geologic time and the attendant evolution of biological organisms; 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. Earth System History Laboratory. 1 Credit.**

Practical application of geologic principles and techniques to interpretation of Earth history. Introduction to stratigraphic principles, sedimentary environments, and fossil identification.

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 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.

### **GEOSCI 299. 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.

### **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 325. Regional Climatology. 3 Credits.**

The elements, controls, and classification of climates; the distribution of climate types over the earth; world patterns of climate.

REC: Geosci 222.

Fall Even.

### **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 Even.

**GEOSCI 350. Structural Geology and Geodynamics. 3 Credits.**

How do rocks fracture? How do rocks flow? How is heat transmitted from the core to the crust? This class is a survey of the deformation and dynamics of Earth. We will focus on the stress-strain relationship and deformation styles of Earth materials, as well as the transport of heat and mass by Earth processes.

P: GEOSCI 202. REC: MATH 202

Fall Odd.

**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 biostratigraphy and physical stratigraphy and sedimentology.

P: Geosci 202 with at least a C grade and 203 with at least a C grade.

Fall Odd.

**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 450. Ore Deposits. 3 Credits.**

This course is a survey of economically important Earth materials. How do ore bodies form? What are they used for? What strategies can we use to extract the ore? Additionally, we will also focus on the environmental impacts from extraction and what can be done as possible remediation strategies.

P: GEOSCI 202. REC: GEOSCI 340

Spring Even.

**GEOSCI 470. Glacial Geology & Landscapes. 3 Credits.**

This course explores the extremes in environmental behavior which characterize the last 2.6 million years of Earth's history during the Pleistocene and Holocene Epochs. The course will provide students with the skills necessary to be able to recognize and describe glacial landforms, the materials of which they are composed, and the geologic processes by which they form.

P: Geosci 202 with at least a C grade; REC: Geosci 203.

Fall 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 Geoscience. 1-4 Credits.**

Topics not covered by regular courses, such as crustal movements, stable isotopes in the environment, geology of Wisconsin, and others. Offerings of different topics can be repeated for credit.

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 285. Study Abroad: Germany. 3-15 Credits.**

P: cons of instr & prior trip arr & financial deposit.

**GERMAN 299. 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 320. 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 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 or 320

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.

Course is repeatable for credit if topics differ.

P: German 225 or 320

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 or 320

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 or 320

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 or 320

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 or 320

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 or 320

Fall Even.

**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 or 320

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: None. REC: German 225 or 320

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: None. German 225 or 320

Fall Even.

**GERMAN 358. German Politics and Society. 3 Credits.**

Students will gain insight into and knowledge of the political and cultural issues confronting Germany, Europe's most populous country and its largest economy. This course will examine political structures and institutions as well as contemporary issues that influence German and European politics.

REC: junior or senior standing

Spring Odd.

**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 or 320

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 or 320

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.

P: HIMT major, Junior standing

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.

P: HIMT major, Junior standing

Fall and Spring.

### **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.

P: HIMT Major; Junior standing

Fall and 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.).

P: Biology 201/202 with a C or better or Hum Biol 102 with a C or better; HIMT Major and Junior standing

Fall and Spring.

### **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.

P: HIMT Major; Junior standing

Fall and Spring.

### **HIMT 345. Programming and Software Development. 3 Credits.**

Fundamental concepts of programming using a contemporary data analysis language. Topics include variables, conditional execution, functions and methods, iteration, strings, files, and data structures. Applications will be taken from the Healthcare Information Systems.

P: HIMT 300 or conc enr; HIMT major; Junior standing

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.

P: MATH 101, HIMT major, Junior standing

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.

P: HIMT Major, Junior standing

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.

P: HIMT 330, HIMT major, Junior standing

Fall and 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.

P: HIMT Major, Junior standing

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.

P: HIMT 300, HIMT major, Junior standing

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.

P: HIMT 345, HIMT major, Junior standing

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.

P: HIMT 330 & HIMT 360, HIMT major, Junior standing

Fall and Spring.

**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.

P: HIMT 360; HIMT major; Junior standing

Fall and 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.

P: HIMT 300 & HIMT 370, HIMT major, Junior standing

Fall and 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.

P: HIMT Major, Junior standing

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.

P: HIMT Major, Junior standing

Fall and Spring.

**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.

P: HIMT 375; HIMT major; Junior standing

Fall Only.

**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.

P: HIMT 350, HIMT major, Junior standing

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.

P: HIMT 300; HIMT major; Junior standing

Spring.

**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: HIMT Major; Junior standing

Spring.

**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.

P: HIMT 355, HIMT 365 & HIMT 415; HIMT major; Junior standing

Spring.

**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.

P: HIMT major; Junior standing

Fall and Spring.

**HIMT 489. Pre-Capstone. 1 Credit.**

This is a one-credit course that is intended to serve as an orientation for the HIMT 490 Capstone course as well as a credentialing exam prep course. The Pre-Capstone will help you get more comfortable with all that's involved in the Capstone experience. HIMT 489 will also help prepare you for the upcoming credentialing exam(s) that you will be sitting for (in particular, the RHIA and CAHIMS exams). Please look through the content and discover the steps you need to take to be successful. Take special note of the deadlines and requirements for submitting your documents. Those deadlines are very important. This is a Pass/Fail course. It is a pre-requisite for HIMT 490.

P: HIMT Major; Junior standing. REC: Course must be taken in semester just prior to taking HIMT 490

Fall and Spring.

**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.

P: HIMT 420, HIMT 489; Last semester of program; HIMT Major

Fall and Spring.

**HIMT 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: HIMT major, Junior standing

Fall and Spring.

## Healthcare Management (HLTH MGT)



## Courses

### **HLTH MGT 150. Certified Nursing Assistant (CNA). 3 Credits.**

Certified nursing assistants play an important role as members of the comprehensive healthcare team in a variety of medical settings. CNAs are employed in hospitals, long-term care facilities, nursing homes, hospices, community care facilities and as home health aides in patient's homes. In addition to receiving technical skills, students will learn additional concepts necessary to provide excellent person-centered care. The CNA program includes a combination of lectures, laboratory practices and supervised clinical work at a medical care facility. This program is recognized and approved by the Wisconsin Department of Health Services. Upon successful completion of the program, the student is eligible to take the Wisconsin Nursing Assistant Competency Examination.

P: Pass a Caregiver Background Check, documentation of influenza vaccine and negative Tuberculosis test.

### **HLTH MGT 301. Health Care Systems. 3 Credits.**

This course focuses on the organization, delivery, and financing of healthcare in the U.S. It examines both private and public health sectors and effects of government health care policy on the quality of healthcare delivery.

Fall Odd.

### **HLTH MGT 302. Healthcare Management. 3 Credits.**

This course provides an introduction to healthcare management including important issues such as management thinking, cost management, strategic planning, and quality improvement. Case studies will be used to enhance student learning.

Spring Even.

### **HLTH MGT 401. Healthcare Economics & Policy. 3 Credits.**

Overview of the economics that drive healthcare in the United States. Topics include a review of major healthcare systems, basic economic principles, payers of healthcare, relationship of healthcare policy to economics, and healthcare reform.

Fall Even.

### **HLTH MGT 402. Population Healthcare Management. 3 Credits.**

This course examines new requirements for population-oriented health delivery initiatives, and the challenges and opportunities to improve health within and across populations. Topics include determinants of health, sources of population health data, measuring health outcomes, and disease management.

Spring Odd.

## 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 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

#### **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 256. Introductory Topics in History. 3 Credits.**

A specific topic in an instructor's area of special competence. When offered, the particular topic is indicated in the campus timetable. Course is repeatable for credit if topics differ.

**HISTORY 283J. Transfer Student Seminar. 3 Credits.**

Transfer Student Seminar, topics vary. This class provides an "on ramp" to the University and its interdisciplinary mission. It is a content-based class that incorporates a problem-focused, interdisciplinary education with communication skills, information literacy, and engagement with faculty, students, and the campus community.

P: Reserved for New Incoming Transfer Students

Fall Only.

**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. 1-6 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.

**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 Odd.

**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 First Nations, Europeans, and Africans, and attention to society, politics, economy, religion, and culture.

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 eve of the American Civil War.

P: Jr st; REC: History 205

Spring Odd.

**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. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 credits.

P: jr st

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.

Spring Even.

**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 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: Junior standing; REC: Hum Stud 101 or Hum Stud 102

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. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

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: Sociol 101 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. Course is repeatable for credit; may be taken 4 times for a total of 12 credits.

P: None REC: Sociol 101 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 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.**

topics vary

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 Chem 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 208. Scientific Conditioning of the Athlete. 3 Credits.**

Principles and techniques of training - including strength, agility, and endurance. Interrelationships between training and athletic participation, principles of physiology of exercise, and general and specific techniques of physical 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 Only.

### **HUM BIOL 210. Prevention and Treatment of Athletic Injuries. 3 Credits.**

This is an introductory course focusing on the basic principles of athletic training (sports medicine). Emphasis will be placed on the role of the athletic trainer in regards to injury prevention, health/injury assessment, and management/rehabilitation of sports related injuries. Content includes history of athletic training, athletic training room procedures, physiology of healing, acute emergency management, and medical referral process. Students learn techniques related to taping, wrapping, splinting, ambulatory aides, and modalities applied to the healing process.

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 215. Personal Health Issues. 3 Credits.**

Theoretical and practical knowledge about health and wellness, with experiential exercises to heighten awareness of one's own values, attitudes, and abilities toward healthy living.

### **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 221. Anatomy and Physiology I. 4 Credits.**

An examination of the structure and function of the human body at the molecular, cellular, tissue, organ, and system levels of organization. The integration of these levels of organization within the human organism is emphasized. This is the first semester of a two-semester sequence.

P: Biology 201/202 with at least a C grade

Fall and Spring.

**HUM BIOL 222. Anatomy and Physiology II. 4 Credits.**

An examination of the structure and function of the human body at the molecular, cellular, tissue, organ, and system levels of organization. The integration of these levels of organization within the human organism is emphasized. This is the second semester of a two-semester sequence.  
P: Hum Biol 221.

**HUM BIOL 250. Fitness for Life. 3 Credits.**

An introductory course pertaining to health related fitness, including its impact on society and the individual. Students will develop and implement a personal fitness program based on current research in the area. The role and value of fitness will be discussed in terms of physical and emotional health, heart disease, longevity, and quality of life.  
P: Hum Biol 102.

**HUM BIOL 297. Internship. 1-3 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. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.

**HUM BIOL 299. 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.

**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 318. Reproductive Biology. 3 Credits.**

Course explains basic reproductive processes with emphasis on the factors, both hormonal and environmental, that affect reproductive functions in mammals; how these processes can be modified to control reproduction.  
P: Biology 202 with at least a C grade and Biology 203 with at least a C grade; OR Hum Biol 204 with a C grade or better.  
Spring.

**HUM BIOL 322. Epidemiology. 3 Credits.**

Foundational knowledge of epidemiology, the study of disease in/among populations, and relevant introductory bio-statistical methods and practical applications to public health and biomedical sciences.  
REC: Bio 201 with a grade of C or higher AND Bio 202 with a grade of C or higher; OR Hum Bio 202 with a grade of C or higher  
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: use of energy during exercise, principles of training, aerobic training, interval training, strength training, gender and exercise, ergogenic aids, e.g., blood doping, and the impact of environmental conditions, e.g., altitude, on exercise.  
P: Hum Biol 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 Biol 204 AND approval by instructor REC: Hum Biol 351, Biology 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: Hum Biol 204 with a grade of C or higher AND Chem 207 or conc enr

Fall Only.

**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: Hum Bio 204 with a grade of C or higher AND Math 260 AND concurrent enrollment in Hum Biol 361

Fall Only.

**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 Only.

**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: 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 CHEM 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.

**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 CHEM 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: Biology 307 or Hum Biol 310 or Biology 410 with at least a C grade  
Fall Only.

**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. Course is repeatable for credit; may be taken 10 times for a total of 10 credits.

P: Chem 207 and approval by faculty mentor  
Fall and Spring.

**HUM BIOL 496. Teaching Assistantship. 1-4 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. Course is repeatable for credit; may be taken 4 times for a total of 4 credits.

**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 299. 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.

**HUM DEV 314. Family Policy. 3 Credits.**

This course positions family at its center and critically examines the process, practice, and impact of policy on family. Policy areas covered include, but are not limited to, early childhood education, health care, juvenile crime, long-term care, sexual orientation and gender identity, and welfare reform. Policies will be understood in their historical context and present realities with an eye toward social justice, inclusivity, and diversity.

P: Junior standing. REC: Social science course  
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. The development and variation of sexual orientation and gender expression will be discussed.

P: Psych 203 or DJS 241  
Fall and Spring.

**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 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 493. Peer Mentor for First Year Seminars. 3 Credits.**

In this course, students will work in First Year Seminar classes as peer mentors for first year students. Peer mentors will help promote the development of skills relevant to student success, will encourage student engagement with the university, and will act as a role model for first year students. Through this work, peer mentors will learn about college student development and effective practices in teaching and learning, will develop professional and interpersonal skills such as communication and leadership, and will have the opportunity to apply this knowledge in their work with first year students.

P: Approval of instructor  
Fall Only.

**HUM DEV 494. Capstone. 3 Credits.**

Students will apply and integrate their knowledge from the Human Development major. The topic will vary from semester to semester.

P: Declared major in Human Development; 9 credits taken in Human Development. REC: Senior status  
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: Hum Dev 302  
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.

## Human Resources Management (HRM)

### Courses

**HRM 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.

**HRM 460. Employee Development. 3 Credits.**

This course provides a detailed look at employee development and its three main functional areas: training, development, and performance management. The course is designed to demonstrate how training, development, and performance management are integrated to support the organization's business strategy as well as how they relate to other key human resource management functions, such as job analysis and design and compensation. Challenges to, and strategies for improving, the validity and reliability of employee assessment will also be discussed.

P: Bus Adm 362 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Spring.

**HRM 465. Recruitment and Selection. 3 Credits.**

This course provides a detailed look at staffing in organizations, including how organizations plan for their staffing needs, use job analysis to develop job descriptions and specifications, choose whether to recruit internally or externally, choose among job candidates, and use statistical analysis to validate selection criteria. The course examines and analyzes various recruitment methods and selection tools, as well as the theoretical and empirical support for each.

P: Bus Adm 362 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Spring.

**HRM 466. Legal Issues in Human Resource Management. 3 Credits.**

This course provides a detailed look at the law pertaining to human resource management (HRM), including discrimination, occupational health and safety, labor standards, employee information and privacy, negligence, discipline and termination, employment contracts, and collective agreements. Students will learn the substantive law pertaining to HRM, the sources of that law, and how to identify and address legal risks.

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.

**HRM 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.

## Humanistic Studies (HUM STUD)

## Courses

### **HUM STUD 100. Living the Humanities. 3 Credits.**

This team-taught course introduces students to the Humanities as a way of study. By grappling with one of humanity's problems--such as the ethics of eating or our imprint on the environment--students explore various ways in which the strengths and values that are unique to the humanities can best prepare students for their future. Course is not repeatable for credit.

Fall and Spring.

### **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 110. 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.

### **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.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman

Fall and Spring.

### **HUM STUD 200. Introduction to Digital and Public Humanities. 3 Credits.**

This course introduces students to the fields of digital and public humanities, with an emphasis on how we think about, and through, digital and public spaces. Students read, discuss, and write about humanities texts and artifacts, but also engage with the tools, platforms, methods, and projects of these emerging fields. Topics include curation, design, visualization, networked interaction, and collaborative research.

P: None. REC: Hum Stud 100

Fall Only.

### **HUM STUD 201. Introduction to the Humanities. 3 Credits.**

Major methods and ideas of the humanities, examined in selected works of literature, philosophy and fine arts.

Spring.

### **HUM STUD 210. Film and Society. 3 Credits.**

The ways in which films reflect and influence society. Examines films for their social content and the social milieu of their creation, the ways in which different cultures use films and the cross-cultural influences which occur.

### **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. Course is not repeatable for credit.

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. 1-6 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.

**HUM STUD 300. Intermediate Digital and Public Humanities. 3 Credits.**

Students explore methods and approaches of the digital and public humanities in-depth, perform research, and complete work on a collaborative project.

P: Hum Stud 200

Fall Only.

**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 & Assessment. 3 Credits.**

Overview of issues in second-language acquisition and assessment, 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.

Fall Only.

**HUM STUD 320. Language and Identity. 3 Credits.**

This course explores the role that language attitudes and ideologies as well as identity play in the speech and patterns of language use of native speakers as well as those acquiring a second language. We will address these issues in relation to various immigrant groups in the US, with a special focus on Hispanic communities across the US. In addition, within the broader picture, we will look at the question of language use and identity construction; that is, the social meaning that certain variations in language have (i.e. power and solidarity traits) and the use that native speakers' make of these variables to construct an identity.

P: Hum Stud 160 or Educ 311 or 315.

Spring.

**HUM STUD 321. Sociolinguistics. 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 Dystopia. 3 Credits.**

This course examines utopian and dystopian thought in literature, philosophy, politics, and social thought as well as attempts to realize utopian visions. The course focuses on the question of the value of utopian and dystopian thought in their historical and contemporary moments. What can utopia teach us about our society and the directions in which it may develop?

Spring Even.

**HUM STUD 334. The Ancient World. 3 Credits.**

Focuses on aspects of the cultures and civilizations of the ancient world as reflected in its texts and fine arts.

P: jr st.

Fall Only.

**HUM STUD 335. 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. 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. 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 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 Humanities. 3 Credits.**

Interdisciplinary examination of a single important theme in the Humanities. Variable content. Course is repeatable for credit if topics differ.

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 370. Sustainability through the Humanities. 3 Credits.**

This course offers a critical exploration of the problem of sustainability from the perspective of the humanities, including history, First Nations Studies, literature, and philosophy. The problem of environmental sustainability has at least as much to do with our cultures, histories, languages, and philosophies as it does with more concrete factors such as resource usage and pollution. To the extent that humanistic disciplines help us to expand and broaden how we comprehend the natural world, so too might they provide us with essential resources and tools with which to imagine and mount broad and value-infused solutions.

P: Junior Standing REC: History 220, Philosophy 220, or FNS 224

Spring.

**HUM STUD 375. Humanities, Business and Critical Thinking. 3 Credits.**

The Humanities in general and literature in particular provide tools for critical thinking that produce a new level of discourse, often outside of author / artist intent. This course will analyze literary works from the advent of modern capitalism to the present to engage in discussions of literary representations of business and economic modals

REC: Major: Integrative Leadership Studies

Spring.

**HUM STUD 382. 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.

REC: jr st.

Fall Only.

**HUM STUD 383. Contemporary Cultural Issues. 3 Credits.**

A study of contemporary cultural and social issues through historical, literary, philosophical, and artistic analysis.

P: Hum Stud 102 or Hum Stud 202; REC: jr st.

Spring.

**HUM STUD 384. Topics in World Cultures. 3 Credits.**

Study of cultures and worldviews outside of Western Europe and the United States. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: none; REC: jr st.

Fall Only.

**HUM STUD 385. First Nations Intellectual Traditions. 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 400. Humanities Practicum. 3 Credits.**

In this course students gain in-depth, hands-on experience by collaboratively creating humanities projects. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: None. REC: HUM STUD 200

Fall and Spring.

**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. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: Humanistic Studies major

Fall Only.

**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.

## 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. 1-6 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.

**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: 15 credits of Comp Sci, Info Sci or Comm

Fall and Spring.

**INFO SCI 332. Mobile Platforms and Apps. 3 Credits.**

This course has a cross-disciplinary emphasis and is suitable for INFO SCI, COMP SCI and COMM students. This course will incorporate a complete study and practice of the mobile applications world. Students will explore business models of application development and deployment. As cross-disciplinary teams, the students will design, develop and fully produce one real and unique app. While CS students will focus on the technical aspects of the product, other students in this course will focus on original content creation (such as art, news stories, social media, video games, videos, etc.).

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 fundamentals, concepts and tools used in the development of board games, modern 2-D and 3-D real-time interactive computer video games. The fundamentals of video game creation begin with a study of board game creation. Topics covered include game design concepts, design documents, prototyping, artificial intelligence and game mechanics. Students will pitch, design and create their own games in this course.

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 316

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. Analytics and Information Problems. 3 Credits.**

Practice in solving information problems and documenting skills for external audiences.

P: senior status

Spring.



**INFO SCI 411. Statistical Techniques and Decision Modeling. 3 Credits.**

This course develops an understanding of core and advanced statistical concepts used in data science. It builds on core statistical concepts covered in other foundational statistics courses. Topics include hypothesis testing, classical and Bayesian statistical inference, multiple regression, logistic regression, analysis of variance, and non-parametric methods. The course also introduces students to decision modeling techniques including Monte Carlo simulation, linear and non-linear optimization, decision trees, and risk analysis. The course includes hands-on exercises.

P: 15 credits of COMP SCI, INFO SCI, or COMM  
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 course involves hands-on exercises with WEKA, Python, and R.

P: MATH 260 or INFO SCI 302 or INFO SCI 411  
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.

## Management (MGMT)

### Courses

#### **MGMT 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.

#### **MGMT 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: MGMT 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Fall and Spring.

**MGMT 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: 85-earned credits; ACCTG 202, ECON 202, BUS ADM 230, MKTG 322, FIN 343, and MGMT 389 and Bus Adm major or Acctg major and an overall minimum GPA of 2.5

Fall and Spring.

**MGMT 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.

## Marketing (MKTG)

### Courses

**MKTG 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.

**MKTG 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.

**MKTG 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.

**MKTG 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.

**MKTG 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 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.

**MKTG 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.

**MKTG 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.

## 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 97. Mathematics Study Skills. 1 Credit.**

MATH 97 is a one credit course intended for students concurrently enrolled in MATH 99. This course will provide students with mathematics and problem-solving instruction and cover study skills strategies for succeeding in mathematics courses. Students will gain insights into how they learn mathematics through various activities and reflections. They will also receive any extra support needed so that they are successful in their MATH 99 course.

P: Concurrent enrollment in MATH 99

Fall and Spring.

### **MATH 99. Intermediate Algebra. 2 Credits.**

Intended as a preparation for Math 101. Topics include: functions, linear equations, quadratic equations, set operations, Venn diagrams, polynomials, rational functions, rational exponents, radicals. Offered on a pass/no credit, non-degree credit basis only.

P: Math 94 or WPT-MFND score greater than 415

Fall and Spring.

### **MATH 100. Math Appreciation. 3 Credits.**

An exploration of the exciting, rich, practical, historical, and creative nature of mathematics, while emphasizing reasoning skills and problem-solving abilities. Core material includes probability/statistics, rational and irrational numbers, infinity, and additional topics chosen from other areas of modern mathematics.

Fall and Spring.

### **MATH 101. Advanced Algebra. 2 Credits.**

Absolute values, linear inequalities, system of linear equations in three variables, matrices, complex numbers, quadratic functions, exponential functions, logarithmic functions, sequences.

P: Math 99 or WPT:MFND test score >465

Fall and Spring.

### **MATH 102. Quantitative Reasoning. 3 Credits.**

This course is intended to develop analytic reasoning and the ability to solve quantitative problems. Topics to be covered include construction and interpretation of graphs, functional relationships, descriptive statistics, geometry and spatial visualization, math of finance, exponential growth, and basic probability. Appropriate use of units and dimensions, estimates, mathematical notation and available technology will be emphasized throughout the course.

P: MATH 099 with a P grade, or WPT-MFND test score > 465

Fall and Spring.

### **MATH 104. Precalculus. 4 Credits.**

Functions and their graphs, the algebra of functions, polynomial functions, rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, conic sections

P: Math 101 with at least a C grade or WPT-MFND score >465 and WPT-AALG score >525

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.

P: Math 104 with at least a C grade or WPT-MFND score >465 and WPT-AALG score >525 and WPT-TAG score >525

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.**

Using statistical software, this course covers probability, descriptive statistics, sampling distributions and the Central Limit Theorem, hypothesis testing and confidence intervals, distributions of random variables and/or test statistics (normal, Z, t, F, binomial, and chi-square), t-tests (one- and two-sample, paired), analysis of categorical data (one proportion: binomial test, normal approximation; two or more proportions: chi-square tests, odds ratios), correlation, and simple linear regression. Credit will not be granted for both MATH 260 and BUS ADM 216.

P: MATH 101 with at least a C, or WPT-MFND score > 465 and WPT-AALG score > 525

Fall and Spring.

**MATH 299. 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.

**MATH 305. Ordinary Differential Equations. 4 Credits.**

First-order differential equations, equilibrium solutions and stability, linear equations of higher order, Fourier series and periodic solutions, Laplace transform methods, first-order linear systems of differential equations with constant coefficients, eigenvalues and boundary value problems.

P: Math 203 with at least a C grade.

Fall Only.

**MATH 314. Proofs in Number Theory and Topology. 3 Credits.**

The skills necessary to read and write theoretical mathematics with basic material of Number Theory and Topology that will be needed for further study in theoretical mathematics.

P: Math 202 with at least a C grade; REC: Math 320.

Spring.

**MATH 320. Linear Algebra and Matrix Theory. 4 Credits.**

Matrices and vector space concepts, linear dependence and independence, systems of linear equations, linear transformations, determinants, eigenvalues and eigenvectors; functions of vectors, spectral decompositions

P: Math 202 with at least a C grade.

Fall Only.

**MATH 323. Analysis. 4 Credits.**

The real number system, sequences of real numbers and their generalizations to real-valued functions, series of real numbers, continuity of a function, the theory of differentiation, the theory and development of the Riemann integral, Picard's theorem.

P: Math 209 with at least a C grade and 314 with at least a C grade.

Fall Only.

**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.

Spring.

**MATH 329. Applied Regression Analysis. 4 Credits.**

Techniques for fitting linear regression models are developed and applied to data. Topics include simple linear regression, multiple regression, curvilinear regression and linearizable models.

P: MATH 260 or BUS ADM 216 with at least a C, MATH 202 with at least a C, and MATH 320 with at least a C. REC: Knowledge of Excel and R

Fall Only.

**MATH 355. Applied Mathematical Optimization. 3 Credits.**

Introduction to mathematical optimization: mathematical modeling of optimization problems, analytical and numerical optimization techniques, applications. Linear programming: simplex method, duality, integer programming; nonlinear programming: Lagrange multipliers, Karush-Kuhn-Tucker optimality conditions, convexity; approximation techniques: line search methods, gradient methods, conjugate gradient methods; variational problems; dynamic programming; optimal control.

P: MATH 209 with at least a C grade AND MATH 320 with at least a C grade or concurrent enrollment

Spring.

**MATH 360. Theory of Probability. 3 Credits.**

Probability concepts and counting techniques; expected value; discrete, continuous, and multivariate probability distributions; moments and moment-generating functions; transformations and functions of random variables; and the Central Limit Theorem.

P: Math 209 with at least a C grade.

Fall Even.

**MATH 361. Mathematical Statistics. 3 Credits.**

Properties of point estimators (bias, consistency, sufficiency), methods of estimation (method of moments, maximum likelihood estimation), hypothesis testing and interval estimation, power, likelihood ratio tests, least squares regression, correlation, and nonparametric statistics.

P: Math 360 with at least a C grade

Spring Odd.

**MATH 385. Foundations of Geometry. 3 Credits.**

Intuitive and deductive introductions to Euclidean, non-Euclidean, transformation, fractal, and projective geometries and their applications

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.

Spring 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 Odd.

**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 216 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, discriminant functions, canonical correlation, cluster analysis, multidimensional scaling. Emphasis on computer analysis of actual data.

P: MATH 202 with at least a C; MATH 260 or BUS ADM 216 with at least a C; MATH 320 with at least a C; and MATH 329

Spring Odd.

**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 101. Leadership and Military Science I. 2 Credits.**

This is an introductory course designed to focus on the fundamental components of service as an officer in the United States Army. Students are familiarized with individual values, leadership traits and the fundamentals of officer ship. Students also learn "life skills" of physical fitness, communication applications, both oral and written, as well as interpersonal relationships. The lab provides basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance, and squad battle drills. Additionally, students learn basic map reading, first aid, physical fitness, and military formations to include basic marching techniques.

Fall Only.

### **MIL SCI 102. Leadership and Military Science II. 2 Credits.**

This course is an orientation to leadership theory and the fundamentals of decision-making process by learning how to solve problems and develop critical thinking skills. Students develop followership skills and the ability to learn goal-setting techniques while working in a group interaction setting. The lab continues to provide basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance and squad battle drills. Students are introduced to the operations order format.

Spring.

### **MIL SCI 103. Introduction to Military Science I. 1 Credit.**

An introductory course designed to focus on the fundamental components of service as an officer in the United States Army. Students are familiarized with individual values, leadership traits and the fundamentals of officer ship. Students also learn "life skills" of physical fitness, communication applications, both oral and written, as well as interpersonal relationships. The course provides basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance, and squad battle drills. Additionally students learn basic map reading, first aid, physical fitness, and military formations to include basic marching techniques. Students are eligible to attend Fox Valley Battalion events to include; Ranger Challenge, Commanders Cup competition and the Military Dining In.

Fall Only.

### **MIL SCI 104. Introduction to Military Science II. 1 Credit.**

Further development of leadership skills and the orientation of the ROTC program designed to focus on the fundamental components of service as an officer in the United States Army. Students are familiarized with individual values, leadership traits and the fundamentals of officer ship. Students also learn "life skills" of physical fitness, communication applications, both oral and written, as well as interpersonal relationships. The course provides basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance, and squad battle drills. Additionally students learn basic map reading, first aid, physical fitness, and military formations to include basic marching techniques. Students are eligible to attend Fox Valley Battalion events to include: Ranger Buddy, Northern Warfare Challenge, Norwegian Foot March, German Armed Forces Badge Competition and the Military Ball.

Spring.

### **MIL SCI 183. Military Conditioning. 1 Credit.**

Students participate in the United States Army's military conditioning and fitness program designed to develop both individual fitness and the leadership skills and knowledge essential to the management of an effective organizational physical fitness program. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

Fall and Spring.

### **MIL SCI 201. Basic Leadership and Management I. 3 Credits.**

Students learn how to resolve ethical problems by applying leadership theory and principles. Students learn self-development techniques such as the importance of stress management, time management and the ability to solve problems. Lastly, students apply communication theory and skills in a leadership study focusing on problem solving. The lab applies basic leadership theory and decision making during practical exercises in a field environment. Students continue to develop basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101 and Mil Sci 102

Fall Only.

### **MIL SCI 202. Basic Leadership and Management II. 3 Credits.**

Students focus primarily on leadership with an extensive examination of the unique purpose, roles and obligations of commissioned officers. Students also focus, in detail, on the origin of our institutional values and their practical application in the decision-making process and leadership theory. Students use case studies to learn the Army's ethical decision-making process. The lab continues to apply basic leadership theory and decision making during practical exercises in a field environment. Students continue to develop basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101 and Mil Sci 102

Spring.

**MIL SCI 301. Advanced Leadership and Management I. 4 Credits.**

Students are introduced to the Leader Development Program that will be used to evaluate their leadership performance and provide developmental feedback for the remainder of their cadet years. Cadets are taught how to plan and conduct individual and small unit training, as well as basic tactical principles. Cadets will also learn reasoning skills and the military specific application of these skills in the form of the Army's troop. The lab reinforces small unit tactical training while employing the troop leading procedure to accomplish planning and decision-making. Students continue to learn basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101, 102, 201, and 202

Fall Only.

**MIL SCI 302. Advanced Leadership and Management II. 4 Credits.**

The course focus is doctrinal leadership and tactical operations at the small unit level. Students are provided opportunities to plan and conduct individual and collective training for Army operations. Synthesizing training, leadership and team building is the primary focus. Upon completion, students possess the fundamental confidence and competence of leadership in a small unit setting. The lab continues reinforcing small unit tactical training while employing the troop leading procedures to accomplish planning and decision-making. Students also continue basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101, 102, 201 and 202

Spring.

**MIL SCI 401. Applied Leadership and Management I. 4 Credits.**

This course concentrates on leadership, management and ethics to begin the final transition from cadet to lieutenant. Students focus on attaining the knowledge and proficiency in several critical areas they need to operate effectively as Army Officers. These areas include coordinating activities with staff, counseling theory and practice within the "Army Context," training management and ethics. Students develop and possess the fundamental skills, attributes and abilities to operate as competent leaders in a cadet battalion. They must confidently communicate to subordinate cadets their preparedness to shoulder the responsibilities entrusted to them.

P: Mil Sci 301 and Mil Sci 302

Fall Only.

**MIL SCI 402. Applied Leadership and Management II. 4 Credits.**

Students learn the legal aspects of decision-making and leadership. Instruction introduces the student to the organization of the Army from the tactical to the strategic level. Students learn administrative and logistical management focusing on the fundamentals of soldier and unit level support. Practical exercises require the student, both individually and collectively, to apply their knowledge to solve problems and confront situations commonly faced by junior officers. The lab continues to sharpen the students' leadership skills. Students normally change leadership positions to hone their skills, attributes and abilities as leaders. Again, they must confidently communicate to subordinate cadets their preparedness to shoulder the responsibilities entrusted to them.

P: Mil Sci 301 and Mil Sci 302

Spring.

**MIL 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.

## 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 120. Video Game Music. 3 Credits.**

This course will equip students to understand the interdisciplinary role, historical progression, musical methodology, technological application, and unique artistry of music in video games. Students will contribute to the class learning environment by researching and presenting a game music composer from an interdisciplinary perspective. Through guided instruction, students will also compose their own basic game music. (No musical background required!)

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 11 or 13 or 21 or 31.

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 170. Fundamentals of Music. 3 Credits.**

This course is designed to acquaint the student with the fundamentals of music through experiences with the keyboard, rhythm instruments, singing, listening, and note reading.

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: Completion of MUSIC 152 or MUSIC 153 with a grade of B or better, Music Major, and permission of instructor.

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 MUSIC 152 or 153 with a grade of C or better, and completion of Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, or 138.

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. 1-6 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.

**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 371. Piano Pedagogy. 2 Credits.**

A practical introduction to private and group piano teaching at the elementary and intermediate level. Students will develop teaching skills through reading, observation, analysis and practical training.

P: Music 253, Mus App 102

Fall and Spring.

**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: 4 credits of MUSIC 209, completion of MUSIC 254 with a grade of B or better, 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.

## 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.

P: Conc enr in or completion of MUSIC 151 or MUSIC 152; Conc Enr in MUS ENS 241 or MUS ENS 261 or MUS ENS 262; Minimum grade of C in MUS APP 101

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. Course is repeatable for credit; may be taken for a total of 2 credits.

P: Conc enr in or completion of MUSIC 151 or 152; Conc Enr in MUS ENS 261 or 262 (TERM SPECIFIC)

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 MUSIC 152; Conc Enr in MUS ENS 261 or MUS ENS 262; Minimum grade of C in MUS APP 105.

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 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.

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 102

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.

P: Conc enr in or completion of MUSIC 253 or MUSIC 254; Conc Enr in MUS ENS 261 or MUS ENS 262; Minimum grade of C in MUS APP 106.

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.

P: Conc enr in or completion of MUSIC 253 or MUSIC 254; Conc Enr in MUS ENS 261 or MUS ENS 262 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 205.

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. 1-6 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.

**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.

P: Conc enr in or completion of MUSIC 353 or MUSIC 354; 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 301

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.

P: Conc enr in or completion of MUSIC 353 or MUSIC 354; Conc Enr in MUS ENS 261 or MUS ENS 262 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 206.

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.

P: Conc enr in or completion of MUSIC 353 or MUSIC 354; Conc Enr in MUS ENS 261 or MUS ENS 262 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 305.

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 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.

P: Conc enr in or completion of MUSIC 353 & MUSIC 354; Conc Enr in MUS ENS 441 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 302

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.

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 401

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.

P: MUSIC 353 & MUSIC 354; Conc Enr in MUS ENS 461 or MUS ENS 462; grade of C or better in MUS APP 306.

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.

P: MUSIC 353 & MUSIC 354; Conc Enr in MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 405.

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 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: 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 Workshop. 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. Course is repeatable for credit.

P: audition; REC: Mus App 45 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. Bands and Orchestra. 1 Credit.**

Wind Ensemble: The UW Green Bay Wind Ensemble is the Premier concert band of the University. Repertoire is challenging, and emphasizes individual responsibility for part preparation. Members are expected to dedicate time to practice outside of rehearsals. Membership in the Wind Ensemble is by audition. 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. University Orchestra is comprised of strings (violin, viola, cello, and string bass) that rehearse together as a string orchestra, and also with the winds and percussion of the Wind Ensemble. Auditions are optional.

P: audition.

Fall and Spring.

**MUS ENS 261. University Singers. 1 Credit.**

An auditioned choral ensemble open to qualified students from all majors. The University Singers perform 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. Concert Choir. 1 Credit.**

Concert Choir 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 repertoire 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 Workshop. 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. Bands and Orchestra. 1 Credit.**

Wind Ensemble: The UW Green Bay Wind Ensemble is the Premier concert band of the University. Repertoire is challenging, and emphasizes individual responsibility for part preparation. Members are expected to dedicate time to practice outside of rehearsals. Membership in the Wind Ensemble is by audition. 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. Studio Orchestra is comprised of strings (violin, viola, cello, and string bass) that rehearse together as a string orchestra, and also with the winds and percussion of the Wind Ensemble. Auditions are optional.

P: jr st and audition.

Fall and Spring.

**MUS ENS 461. University Singers. 1 Credit.**

An auditioned choral ensemble open to qualified students from all majors. The University Singers perform 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. Concert Choir. 1 Credit.**

Concert Choir 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.

## Nursing (NURSING)

### Courses

**NURSING 200. Fundamentals of Healthcare Terminology. 3 Credits.**

Healthcare professionals have their own language and terminology. If you are interested in pursuing a career in healthcare, health science, or human service, this course will give you a foundation to communicate with physicians, nurses, and other health professionals. The course will focus on the concept of health, clinical terminology and body systems, medical diagnoses and conditions, and trends in several areas of healthcare. Students will be exposed to healthcare-related information and literature sources.

Fall and Spring.

**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 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 202. 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 208. Art and Science of Healthy Food Preparation. 3 Credits.**

Students will learn principles, practices and techniques of healthy food preparation. Emphasis will be on learning to combine textures, spices, and ingredients to optimize flavor, aesthetic appeal, and nutritional value of prepared foods. Additionally, students will learn to prepare foods appropriate to health maintenance and disease prevention. The course, taught in the food lab, will incorporate both lecture and hands-on (lab) components.

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. 1-6 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.

### **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 Chem 212 with at least a C grade.

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 pathophysiologicals. 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 102 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 at 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. Course is repeatable for credit; may be taken 10 times for a total of 10 credits.

P: Chem 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.

## Organizational Leadership (ORG LEAD)

# 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. Is Morality for Sale?. 3 Credits.**

This course hopes to introduce us to the study of morality and moral practice by first asking whether we ought to behave morally and, if so, what, exactly, it might mean to think and act in a moral way. The course will explore several challenges to morality--such as relativism, evolution, and the possibility that God does not exist. We will also examine the moral implications of birth, death, and pleasure, as well as how freedom, equality, and loyalty enter into our moral lives. We will conclude by considering a host of ways in which moral values are or ought (not) to be for sale.

Fall and Spring.

### **PHILOS 107. Philosophy of Love, Sex, and Friendship. 3 Credits.**

A philosophical examination of personal relationships and interactions such as family, friendship, sex, and romance, with an eye toward their relevance to the individual life and the pursuit of happiness, as well as society as a whole and the manner in which it is and ought to be structured around such relationships.

Fall Only.

### **PHILOS 110. Thinking Critically. 3 Credits.**

An introduction to critical thinking, with an emphasis on its importance to human life (e.g., education, employment, morality, politics, religion). The primary focus of the class is the practical application of critical thinking by way of competence in key reasoning methods, typically including the construction and analysis of informal arguments, the identification of fallacies, basic inductive logic, statistical reasoning, etc.

Fall Only.

### **PHILOS 198. First Year Seminar. 3 Credits.**

First Year Seminar

Reserved for New Incoming Freshman

Fall Only.

### **PHILOS 208. Biomedical Ethics. 3 Credits.**

This course is an introduction to biomedical ethics. The first part of the course provides an introduction to basic ethical theory, which is intended to serve as a background aid for thinking through the particular issues discussed in the remainder of the course. Specific topics to be discussed in the second part of the course include confidentiality and truth-telling in the doctor/patient relationship, medical experimentation and informed consent, abortion, treatment decisions for seriously ill infants, physician assisted suicide, and health care reform.

Spring.

### **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

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 227. Business Ethics. 3 Credits.**

This course (1) explores basic ethical theories, and (2) examines them as a foundation for determining the rightness or wrongness of various decisions and practices in business. We will focus on specific cases and examples. The fact that there is no one universal set of behaviors considered ethical and no one set of guidelines considered correct poses unique challenges to determining the ethics of business decisions and conduct. But the business world is continually confronted with ethical challenges, situations in which the values and ethics of individuals may conflict with those of the teams or organizations they work for. This course probes ethical topics and issues which people in business face in their workplaces. Among the topics covered are corporate responsibility, and conflicts of interest between public interest and the interests of business, the rights of employees, the ethics of advertising, and the morality of information disclosure.

Fall and Spring.

**PHILOS 237. Technology, Values, and Society. 3 Credits.**

An examination of the philosophical issues that emerge from the world of technology in which we live. Topics may include: freedom, censorship, privacy, equality, democratic participation, intellectual property, education, law enforcement, institutional change, work, and all the personal and public choices about technology and its use with which we are confronted today.

Fall Only.

**PHILOS 251. Ethics of Engineering and Technology. 3 Credits.**

This course is an introduction to engineering ethics. It aims to acquaint students with major ethical theories and to enable students to acquire ethical reasoning skills. The overall objective is the acquisition of professional ethical integrity as a professional engineer. To achieve this objective, major ethical theories are explored and possible ethical dilemmas that arise in a career in engineering are addressed, with the aim of providing personally and ethically satisfying solutions to such dilemmas. This course consists of three parts. First, professional ethical engineering codes will be carefully studied. Second, major ethical theories---among them, utilitarianism, Kant's ethical theory, Aristotle's ethical theory, and Natural Law Ethics---will be explored, and their relations to professional ethical engineering codes and the ethical practice of engineering carefully determined. Third, real-life cases of ethical dilemmas that have arisen in the practice of engineering will be scrutinized, with students providing an analysis and evaluation of such cases.

Spring.

**PHILOS 299. 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.

**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. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: none; REC: Philos 213 and 214.

Fall Odd.

**PHILOS 324. Contemporary Philosophy. 3 Credits.**

Course topics vary, but may include Philosophy of Mind and/or Emotion, Experimental Philosophy, Phenomenology, Contemporary French Philosophy or other recent movements afoot in Europe and America, representing both Analytic and Continental traditions in Philosophy.

P: Philos 214

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

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.

## 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. During Fall semesters, 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 WPT-MFND score >465 and WPT-AALG score >525 and WPT-TAG score >525

Fall and Spring.

**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. During Spring semesters, 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.

Fall and Spring.

**PHYSICS 141. Astronomy. 3 Credits.**

A study of the solar system, stars, galaxies and universe.

Fall and Spring.

**PHYSICS 142. Observational Astronomy. 1 Credit.**

Observation of solar system, galactic and extra-galactic objects, and introduction to basic observational techniques in astronomy. Includes telescopic and unaided eye observation, positional astronomy, astro-photography, optic spectroscopy, interpretation of astronomical data, and astronomy laboratory exercises.

**PHYSICS 143. The Solar System. 3 Credits.**

Contemporary understanding of the Solar System; the sky and celestial motions; ancient astronomy; the Copernican revolution; light, gravity, orbits, and astronomical instruments; formation of the solar system; sun, planets and moons; asteroids, comets, meteors and meteorites; and the origin of life. May be offered for three credits without laboratory work or for four credits with laboratory work consisting of telescopic observation, laboratory demonstration and/or astronomy exercises.

**PHYSICS 144. Stars, Galaxies and the Universe. 3 Credits.**

Contemporary understanding of stellar systems: historical development; light, gravity, atoms and nuclei; astronomical instruments; properties and life cycles of the Sun and stars; black holes; the Milky Way and other galaxies; cosmology. May be offered for three credits without laboratory work or for four credits with laboratory work consisting of telescopic observation, laboratory demonstration and/or astronomy exercises.

**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.**

First Year Seminar, topics vary.

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.

P: MATH 202

Spring Even.

**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 102. Introduction to Politics. 3 Credits.**

What is the ideal form of government and society? A survey and analysis of ideas related to citizenship in the community, nation and world, with emphasis on competing political values/ideologies and civic engagement.

**POL SCI 120. Politics of Crime and Punishment. 3 Credits.**

Focuses on the competing goals of public policy in criminal justice, from public order, due process, efficiency, rights and liberties. Analyzes the interplay of key actors including police, courts and prisons in policy-making and implementation. Includes the role of media and myth.

**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, health care, energy, environmental quality, the welfare state and social programs. Models of the policy process are also considered.

Fall and Spring.

**POL SCI 299. Travel Course. 1-6 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.

**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. Course examines the role of race and ethnicity in each policy issue.

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.

Fall Even.

**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.**

This course examines the development of constitutional law across a variety of issue areas in the United States Supreme Court, focusing on civil liberties and civil rights. It is taught using the case law method, which consists of reading judicial opinions. In addition to learning about our individual freedoms and rights, we will identify, analyze, and evaluate the legal questions and legal arguments raised in Supreme Court cases.

P: Pol Sci 101.

Fall Only.

**POL SCI 333. Political Science Research Lab. 3 Credits.**

Students will work with a small group of their peers to develop a research project on a contemporary topic related to politics. Over the course of the semester, students will develop a research question, conduct a literature review, gather and analyze data, and write a research paper. Along the way, students will read journal articles, books, and book chapters that will help them refresh their memories on research methods and statistics. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: Pol Sci 101 and Comm Sci 205. REC: Comm Sci 301 and Pol Sci 318

Fall Odd.

**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 OR History 205 OR History 206 OR DJS 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.

Spring.

**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 processes.

Fall and Spring.

**PSYCH 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman

Fall Only.

**PSYCH 203. Introduction to Lifespan Development. 3 Credits.**

Human development from conception through death: physical development, social and emotional development, and psychological development. Topics may also include personality development, the development of language, intellectual development and creativity, and the process of human learning.

Fall and Spring.

**PSYCH 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.

**PSYCH 299. 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.

**PSYCH 300. Research Methods in Psychology. 4 Credits.**

Critical understandings of empirical research including research ethics, design, data collection, analysis, and communication. Completion of individual and group laboratory projects.

P: PSYCH 102; Previous completion and/or concurrent enrollment of COMM SCI 205 or MATH 260 or BUS ADM 216.

Fall and Spring.

**PSYCH 302. Developmental Research Methods. 4 Credits.**

A survey of research methods used by developmental researchers including quantitative and qualitative research methodologies. Ethnography, observations, historical-comparative research, surveys, and mixed methodologies are discussed.

P: PSYCH 203

Fall and Spring.

**PSYCH 308. Physiological Psychology. 3 Credits.**

Introduction to the biological bases of behavior, such as sleep, hunger, and emotion. Basic sensory, motor, and brain mechanisms are described in reference to normal and abnormal behaviors.

P: Psych 102 AND Hum Biol 102 or Biology 201/202 with a C or better

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 315. Social Cognitive Affective Neuroscience. 3 Credits.**

This course illustrates the biological bases of behavior with emphasis placed on the basics of neurobiology and the application of neuroscience to our understanding of social, cognitive, and affective processes such as self-control, decision-making, memory, language, and attention. Neuroscience seeks to understand the design and operating principles of the mind, as instantiated in the brain and body.

P: Psych 102, Psych 300, Psych 308

Fall and Spring.

**PSYCH 321. Sport and Performance Psychology. 3 Credits.**

This course is intended to provide a general overview of sport and performance psychology in a mixed lecture and discussion-based context. Students should expect to learn basic sport and performance psychology terms, concepts, models, and theories, as well as understand how they affect individuals and their participation in sport and exercise.

P: Psych 102, 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 Psych 302

Fall and Spring.

**PSYCH 331. Infancy and Early Childhood Development. 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: Psych 203; REC: Psych 300 or Psych 302

Fall and Spring.

**PSYCH 332. Middle Childhood and Adolescent Development. 3 Credits.**

This course examines salient issues concerning adolescent development. Socio-cultural, psychological and physical growth factors in the developmental process of the adolescent are examined.

P: Psych 203; REC: Psych 300 or Psych 302

Fall and Spring.

**PSYCH 343. Adult Development 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: Psych 203; REC: Psych 300 or Psych 302

Fall and Spring.

**PSYCH 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, different approaches to understanding grief, and cross-cultural death practices and their relation to the American death system.

P: Psych 203; REC: Psych 300 or Psych 302

Spring.

**PSYCH 345. Human Sexuality. 3 Credits.**

Overview of human sexuality including reproductive physiology and health, sexual function and dysfunction, educational and intervention strategies, and sexual orientation and gender expression diversity.

P: Psych 203; REC: Hum Biol 102.

Fall and Spring.

**PSYCH 350. Cultural Psychology. 3 Credits.**

A cross-cultural examination of core psychological processes and areas of study, such as cognition, emotion, development, and personality.

P: Psych 102

Fall Only.

**PSYCH 380. Conservation Psychology. 3 Credits.**

The psychology behind understanding and motivating humans to practice sustainable behaviors.

Fall Only.

**PSYCH 390. Environmental Psychology. 3 Credits.**

Examines ways the built and natural environment influence human behavior; applied in home, community, school, and work environments.

P: Psych 102.

Spring.

**PSYCH 401. Psychology of Women and Gender. 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. Identity development for males and females throughout the life span, as well as the development and variation of sexual orientation will be discussed.

P: Psych 102. REC: Psych 203 and Psych 300 or Psych 302  
Fall and Spring.

**PSYCH 415. Industrial and Organizational 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: Psych 102 AND Psych 300 or Comm Sci 301 or Psych 302.

**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: Psych 102 AND Psych 300 or Comm Sci 301 or Psych 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: Psych 300 or Psych 302  
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 study the many ways in which biological, cultural, cognitive, and other factors can contribute to our emotional experiences.

P: Psych 102 and Psych 300 or Psych 302.

**PSYCH 429. Theories of Personality. 3 Credits.**

Theories and research in psychology of personality and how biological, emotional, behavioral, social, and cognitive factors affect and are affected by personality.

P: Psych 102 AND Psych 203  
Fall and Spring.

**PSYCH 435. Abnormal Psychology. 3 Credits.**

Major psychological, biological, and sociocultural models of mental illness, 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 Psych 302, or Soc Work 301.  
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: Psych 102 and sophomore status  
Spring.

**PSYCH 443. Spirituality and Development. 3 Credits.**

This course explores how spirituality, religion, and faith reflect and represent important aspects of development across the lifespan. Important questions to address include the following: How may 'spirituality' be defined? How does religion influence character development? Discussion of theoretical, research, and practice applications.

P: Psych 203.

**PSYCH 450. Health Psychology. 3 Credits.**

This course examines how health and illness are 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: Psych 102 AND Psych 300 or Psych 302 or Comm Sci 301  
Fall Only.



**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. Capstone in Psychology. 3 Credits.**

An in-depth, integrative, interdisciplinary exploration of a topic that varies by section or semester. Course is not repeatable for credit.

P: PSYCH 300; Declared major in psychology; REC: Senior Status

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. Course is repeatable; may be taken 6 times for a total of 6 credits.

P: Psych 102 or Psych 203; 3.0 GPA in Psych and consent of instructor

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. Course is repeatable for credit; may be taken 6 times for a total of 6 credits.

P: Psych 102 OR Psych 203 and consent of instructor. 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.**

Complex, energy-intensive societies are facing multiple challenges due to finite resources. This course examines 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. We use systems analysis to highlight how our biophysical environment conditions our human endeavors, and how we need to create resilient social systems to achieve a sustainable society.

Fall and Spring.

**PU EN AF 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

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, health care, energy, 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.

Fall and Spring.

**PU EN AF 220. Economics, Politics, and Government Action. 3 Credits.**

Today, government plays a huge role in the economy in three broad ways. First, there is a large and growing array of economic laws and regulations. Second, the government provides a large range of services through various government programs and agencies. These include Social Security, Medicare, Medicaid, government housing, unemployment and disability insurance, and various poverty programs, among others. Finally, government programs need to be financed. These include the federal income tax, state income taxes, Social Security taxes, inheritance taxes, property taxes, and high excise taxes on goods such as gasoline, alcohol and tobacco products, among others.

Spring.

**PU EN AF 225. Introduction to the Nonprofit Sector. 3 Credits.**

The purpose of this course is to introduce students to the world of nonprofit organizations including the diverse range of organizations and the activities they engage in and the enormous range of services that the sector provides. The course takes a macro-level approach, focusing on the sector as a whole. Through community engagement and guest speakers, students learn the opportunities and career paths that exist in this field.

Spring.

**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. 1-6 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.

**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.**

Examines 1) the economic rationale for policy, 2) the various types of policy approaches used, and 3) alternative policy options for managing the development and sustainable use of natural resources (broadly defined to include environmental resources). Particular attention is paid to the longer time horizon required for sustainability and maintenance of quality ecosystems, a necessary condition, or precursor, to having a dynamic and vibrant economic system over time.

P: ECON 102 or ECON 202 or 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.

Fall Even.

**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 applied learning techniques, this course explores management in public and nonprofit organizations from the perspective of a manager. Topics include board leadership, role of executive, motivation, marketing, fundraising, planning, and more. Students investigate and analyze the management practices of a local organization.

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, ranging from Wisconsin to the Great Lakes to our Pacific, Atlantic, and Gulf coasts. We will study issues of development, overuse, risk, and their consequent human, 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. Combines earth sciences and natural sciences with mapping and planning to understand key aspects of adapting our built environment to not impose further on our natural environments, and in fact to remediate some of the damage caused to natural environments and social well-being. Emphasizes adaptive environmental planning and implementation at the national, state, and local levels in the contexts of growing human populations, decreasing natural resources, and climate change.

REC: PU EN AF 102 or Env Sci 102.

Spring.

**PU EN AF 323. Sustainable Land Use. 3 Credits.**

How do we develop walkable, equitable communities and sustainable land use plans for urban and rural areas? This course uses a systems perspectives analysis of land use control methods, legal foundations, social implications, environmental impacts, financial influences, civil and property rights, cumulative impacts, and more. Land use is an increasingly contested topic due to external financial interests, growth pressures, shifting populations, and conditions placed on personal or property rights. Sustainable land use planning requires understanding the interplay between humans and the landscapes we live in or draw from and the constraints or opportunities we work with to fashion more sustainable land use at the local, regional, and national level.

P: None. REC: PuEnAf 202 or EnvSci 102

Spring.

**PU EN AF 324. Transitioning to Sustainable Communities. 3 Credits.**

Rising energy costs and climate change mean that we need resilient communities based on localizing inputs/outputs to support health, jobs, housing, transportation, schools, agriculture and city services. We emphasize the many facets of human settlements and the increasingly limited biophysical resources we depend on to structure our social, economic, and environmental systems, and how to make them self-sustaining, energy-efficient, and reliant on local control for job creation, wealth creation, food production and other land use issues. Systems analysis allows us new perspective of the complexities surrounding these interconnected problems. Applying innovative strategies in every sector of daily life will make communities more resilient as they face higher energy costs and climate variability.

P: None. REC: PuEnAf 202 or EnvSci 102

Fall and Spring.

**PU EN AF 326. Philanthropy: Civic Engagement through Giving. 3 Credits.**

A hands-on, student-led course where students give away an actual grant to a local organization. After studying community needs, interviewing experts, gathering local data, working with nonprofits and learning from area philanthropists, students choose how to allocate actual funds (provided by community partners) to one or more to organizations in the community. Appropriate for all majors.

Spring.

**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.**

There is no single leadership theory or approach that will universally apply across all situations. The purpose of this course is to introduce students to the major theories and models of leadership with a focus on how we can use these theories and models to transform our leadership in practice. Through the use of interactive course activities, students will identify strong leadership practices and distill principles of exemplary leadership for use in their own organizations and communities.

P: None. REC: ORG LEAD 198

Fall and Spring.

**PU EN AF 345. Human Resource and Risk Management. 3 Credits.**

This course is applicable to organizations which utilize 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 and Spring.

**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.**

The world faces unprecedented challenges as vital water is used and abused, mismanaged and wasted. This course is a comprehensive analysis of the current state of water issues and future implications, introducing basics of water management and planning. Topics covered are: basic hydrological cycle, human impacts on the hydrologic cycle, water pollution, flood and drought, mining of aquifers, water conflicts, state water laws, historical municipal and irrigation development, dams and pipelines, water and wastewater treatment (and related laws), effects of land use, effects of climate change, FOOD-ENERGY-WATER nexus, economics of water, and contemporary strategies to improve water use and quality. Focus is mostly national, with many local and global examples.

Spring.

**PU EN AF 360. Immigration and Immigration Policy. 3 Credits.**

Americans have come from every corner of the globe, and they have been brought together by a variety of historical processes--conquest, colonialism, the slave trade, territorial acquisition, and voluntary immigration. Immigration, anti-immigration sentiments, and the motivations and experiences of the migrants themselves are examined by looking at the many legal efforts to curb immigration and to define who is and is not an American, ranging from the Naturalization Law of 1795 (which applied only to "free-born white persons") to the Chinese Exclusion Act of 1882, the Emergency Quota Act of 1921, and the reform-minded Immigration and Nationality Act of 1965, which opened the door to millions of newcomers, the vast majority from Asia and Latin America. Immigration is looked at from the perspective of the migrant--farmers and industrial workers, mechanics and domestics, highly trained professionals and small-business owners--who willingly pulled up stakes for the promise of a better life. The course sheds light on the relationships between race and ethnicity in the formation of American society, and it emphasizes the marked continuities across waves of immigration and across different racial and ethnic groups. The course will offer students the opportunity to develop their own perspective on the long history of calls for stronger immigration laws and the on-going debates over the place of immigrants in American society.

P: jr st.

Fall Only.

**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 202

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 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.

Spring.

**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. Throughout the semester, students develop a portfolio of marketing and fundraising plans and materials for a nonprofit organization. Emphasis on writing for social media, case statements, total development plans, and grant seeking.

P: Pu En Af 315

Fall Only.

**PU EN AF 428. Public and Nonprofit Program Evaluation. 3 Credits.**

A course that develops a working understanding and selected skills relating to the conduct of program evaluations. This course focuses on skills needed to identify and measure program outcomes in order to ensure the effectiveness of programs. Throughout the semester, students develop an actual evaluation plan in partnership with a local public or nonprofit organization, developing professional skills including writing, presenting, communicating, and working in teams.

P: None. REC: PU EN AF 215; PU EN AF 315

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 431. Building Sustainable Landscapes. 3 Credits.**

This course covers the principles, materials, and methods you need to know for building a wide variety of outdoor sustainable projects to create resilient environments. Topics cover remediating brownfields, healing injured soils, stabilizing slopes, using living materials, collecting and reusing water, raingardens and swales, porous pavements, materials origin and fate, embodied energy and maintenance energy costs, native plants and permaculture designs, urban agriculture and wildlife corridors, using light and darkness to your advantage, reducing noise, sustainable inputs to landscape maintenance, certification or other ways of measuring sustainable outcomes, pre-construction considerations, and more. Students will apply these concepts in a small demonstration project. No previous construction experience required.

P: None. REC: PuENAF 102 or EnvSCI 102 or consent of instructor

Fall Odd.

**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. Course is not repeatable for credit.

P: Junior standing and enrollment in Environmental Sustainability and Business certificate program.

Fall and Spring.

**PU EN AF 493. Peer Mentor for First Year Seminar. 3 Credits.**

In this course, students will work in First Year Seminar classes as peer mentors for first year students. Peer mentors will help promote the development of skills relevant to student success, will encourage student engagement with the university, and will act as a role model for first year students. Through this work, peer mentors will learn about college student development and effective practices in teaching and learning, will develop professional and interpersonal skills such as communication and leadership, and will have the opportunity to apply this knowledge in their work with first year students.

P: Successful completion of First Year Seminar and approval of Instructor.

Fall and Spring.

**PU EN AF 494. Teaching Assistant. 3 Credits.**

This course is designed to provide students the opportunity to learn about teaching as an assistant in a college-level course. The goals of this course include: to introduce upper-level undergraduate students to the scholarship on teaching and learning through regular discussions; to introduce students to the roles of college-level teachers; and to enhance knowledge and learning in the department course offerings. Related, there are goals and learning objectives outlined for the students of the class. Thus, you will observe and assist in finding the best ways to meet these goals and objectives through your study of teaching and learning scholarship, our weekly meetings, and your coordination of class activities. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: Jr standing; completion of course in previous semester REC: Major in one of the PEA programs (Environmental Planning and Policy, Public Administration, or Urban Studies).

Fall and Spring.

**PU EN AF 495. Research Assistantship. 3 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.

Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: jr standing or higher. REC: completion of COM SCIENCE 205 Social Science Statistics (or similar course) and COM SCI 301 Foundations for Social Research (or similar course).

**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 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**SOC WORK 202. Introduction to Human Services. 3 Credits.**

Overview of the disciplinary distinctions within human services and career opportunities in the field; 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.

Fall Only.

**SOC WORK 299. 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.

**SOC WORK 300. Professionalism and Teamwork in Social Work. 1 Credit.**

This course focuses on developing understanding of self and the facets of social work professionalism in practice. The course addresses social work values and ethics and professional behaviors across practice settings. The roles of teamwork and collaboration in practice are emphasized and reinforced through a service learning component. This course provides a framework for determining readiness to progress to the Senior Field Practicum.

P: Social work major; conc enr in Soc Work 370 & Soc Work 323.

Spring.

**SOC WORK 301. Research Methods for Generalist Social Work Practice. 3 Credits.**

Provides an overview of the stages of design and implementation of research in the social sciences. Formulation of research questions, development of a research plan, and collection and analysis of data are examined. Compares and contrasts a variety of approaches including experimental designs, field research, qualitative and quantitative methods, program evaluation, and historical research. Highlights importance of using research to inform social work practice, and practice to inform research.

P: major in SOC WORK; COMM SCI 205 or Math 260 or BUS ADM 216, or concurrent enrollment; concurrent enrollment in SOC WORK 305 & SOC WORK 313.

Fall Only.

**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; concurrent enrollment in SOC WORK 313 & SOC WORK 301.

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: Major in Social Work; conc enr in Soc Work 305 & Soc Work 301.

Fall Only.

**SOC WORK 323. Social Work Skills Lab II. 1 Credit.**

Instruction and practice in interpersonal skills required for working in professional settings, including use of supervision, understanding of organizational culture, power, ethics, community assessment, and resource referral. Students will also learn social work group facilitation.

P: Major in Social Work; SOC WORK 313; conc enr in Soc Work 370 & Soc Work 300.

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 340. Strengths-Based Group Facilitation. 3 Credits.**

This course introduces students to group counseling techniques such as facilitating the process forming a group, determining group type, purpose, size, leadership, establishing goals and clarifying group rules.

P: Sophomore standing.

**SOC WORK 342. Psychopharmacology. 3 Credits.**

This course introduces students to the basic concepts of psychopharmacology and the function of the organs and systems of the human body and brain. The course defines biological and chemical aspects of various drugs as well as discuss bio-psycho-social- and environmental approaches to understanding substance use.

P: Sophomore standing.

**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: Major in SOC WORK; or with consent of instructor

Fall Only.

**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: Major in Soc Work; Soc Work 305 & Soc Work 301; concurrent enrollment in SOC WORK 300 & SOC WORK 323.

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: Major in SOC WORK; Soc Work 305 & PSYCH 203.

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 & Integrative Seminar. 5 Credits.**

Actual social service work through placement in a social service agency.

P: Major in SOC WORK, conc enr in Soc Work 411 & Soc Work 413, earned grade of "C" or higher in SOC WORK 300

Fall Only.

**SOC WORK 403. Field Practicum II & Integrative Seminar. 5 Credits.**

Actual social service work through placement in a social service agency.

P: Major in SOC WORK, Soc Work 402 and conc enr in Soc Work 420 & Soc Work 423.

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: Major in SOC WORK and Soc Work 370 & Soc Work 371; concurrent enrollment in SOC WORK 402 & SOC WORK 413.

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: Major in Social Work and SOC WORK 323; conc enr in Soc Work 411 & Soc Work 402.

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: Major in Social Work; Soc Work 411; concurrent enrollment in Soc Work 403 & Soc Work 423.

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: Major in Social Work; Soc Work 413; conc enr in Soc Work 420 & Soc Work 403.

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 275, SOC WORK 370, SOC WORK 371; conc enr in 461, Major in SOC WORK.

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 Soc Work 463, Major in SOC WORK

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, Major in SOC WORK

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: Major in Social Work; SOC WORK 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: Major in Social Work; 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 101. Introduction to Sociology. 3 Credits.**

Major sociological concepts and ideas and their application to contemporary societies.  
Fall and Spring.

### **SOCIOL 130. Contemporary Social Problems. 3 Credits.**

Sociological analysis of the nature, extent, causes, and potential solutions to selected major social problems such as poverty and wealth, racial and gender discrimination, crime and violence, drug abuse, family problems, quality of education, inadequate health care, population problems, intergroup conflict, and threats to the environment.

### **SOCIOL 160. Sociology of Human Sexuality. 3 Credits.**

Sociological overview of issues in human sexuality. Course is based on sociological investigations of the origins, nature and biosocial consequences of varying customs and ideals of human sexuality. Among topics that may be covered are: sex and family life, contraception, abortion and social power, violations of sexual norms and ideas about sexual propriety, origins and impact of sexual liberation movements, sociosexual aspects of epidemics, sociological interpretations of sexual dissatisfactions.

### **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 220. Sociology of Marriage and the Family. 3 Credits.**

Marriage and the family as social institutions in a changing world. Historical changes and societal variations in family patterns. Changes over the life cycle. Explores the sources and consequences of a variety of family forms.

### **SOCIOL 235. Introduction to Social Psychology. 3 Credits.**

Introduction to the study of social psychology with focus on sociological contributions to the study of social interaction and small group theory; topics may include: socialization, motivation, attitudes, values, communications, leadership.

P: SOCIOL 101

Spring Odd.

### **SOCIOL 238. Sociological Perspectives on Gender. 3 Credits.**

A sociological examination of roles assigned to women and men in society, including the experiences of marriage, parenthood, employment and occupational attainment. Pays particular attention to gender role socialization and its cultural reinforcement, to patterns of gender relations and to ongoing changes.

### **SOCIOL 299. 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.

### **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: sophomore standing AND Sociol 202 or Hum Dev 102 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 101.

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 320. Sociology of Religion. 3 Credits.**

Study of religious institutions and religious movements; sociological theories about the origin of religions; sociological study about the effects of religion in contemporary society.

P: SOCIOL 101 or ANTHRO 100

Fall Even.

**SOCIOL 321. Topics in Sociology. 3 Credits.**

Explores a single theme from a sociological perspective. Variable content

P: Sociol 202

Fall and Spring.

**SOCIOL 335. Social Psychology. 3 Credits.**

Sociological analysis of the origins and development the self through the socialization process. Emphasis is placed on the social influence of social institutions, organizations, and significant others on identity, behavior and attitudes. Explores the various interactional dynamics involved in social process with an emphasis on analysis of theory and research in sociology.

P: SOCIOL 101 or ANTHRO 103. REC: SOCIOL 235

Spring.

**SOCIOL 355. Environmental Sociology. 3 Credits.**

Explores the socio-cultural foundations of our relationship with the natural environment. Examines the relationship between environmental degradation and social, political, and economic structures. Explores beliefs and values about the environment and their expression in various forms of environmentalism and environmental movements. Also analyzes the presentation of environmental issues in cultural, political, and scientific domains.

P: SOCIOL 101 or ANTHRO 100

Fall Odd.

**SOCIOL 375. Sociology of Sexual and Intimate Relations. 3 Credits.**

The social construction of intimacy and sexuality in the development of self and personal life with emphasis on gender and intimate experience; changing ideas of love and erotic pleasure; and mass cultural influences on intimate and sexual relations.

P: Soc C D 235 and Sociol 202; or Sociol 202 and two other soc sci cses.

**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 101 or DJS 204

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 100. Spanish Language through Culture. 3 Credits.**

An introduction to the Spanish language that focuses as much on the cultural aspects of the language as on the language itself. Students can expect to learn basic elements of vocabulary and structure while learning about the people who speak the language in the US and around the world.

**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 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman

Fall Only.

**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 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. 1-6 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 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.

P: Spanish 226

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 226. REC: 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

Spring Even.

**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 Even.

**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 383. Spanish in the Professions. 3 Credits.**

Advanced study of the language and vocabulary needed for use in specific professions, such as (but not limited to) business, social work, education, law enforcement or health care.

P: SPANISH 329 or permission of instructor

Fall Odd.

**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 454. Translation and Interpretation. 3 Credits.**

This seminar helps students apply their language knowledge and skills by working closely with a Spanish faculty on specific translation and/ or interpretation projects.

P: SPANISH 465 Special Topics: Translation and Interpretation. REC: SPANISH 345.

**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 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. Introduction to 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 declared Musical Theatre major. 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.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**THEATRE 211. World Theatre and Performance. 3 Credits.**

An introduction to the performing arts through multiple global perspectives. Key genres and styles emerging from Asia, Africa, Latin America, the Middle East and Europe will be studied in depth by examining performance traditions as they transform in relation to changing historical and social conditions.

Fall Only.

**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

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 241. Improvisation for the Theatre. 3 Credits.**

An introduction to improvisational concepts and techniques for role-playing, rehearsal and performance. Students will develop creative and collaborative skills by actively participating in theatre games and improvised scenes.

Fall Even.

**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 283H. Fashion History. 3 Credits.**

The history of western fashion from antiquity to the present.

**THEATRE 290. Intermediate Applied Musical Theatre Voice. 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; Theatre 190; declared Musical Theatre major. 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. 1-6 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 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, 223 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. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

P: Major or Minor status in Theatre and Dance; Non majors/minors are invited to seek permission to register

Fall and Spring.

**THEATRE 336. Production Practicum: Performance. 1 Credit.**

Performance in a theatre production. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

Fall and Spring.

**THEATRE 338. Production Practicum: Scene Shop. 1 Credit.**

Complete production work in scene shop preparation. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

Fall and Spring.

**THEATRE 339. Production Practicum: Costume Shop. 1 Credit.**

Complete production work in costume shop preparation. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

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 357. Production Practicum: Wardrobe and Makeup Crew. 1 Credit.**

Production work on a wardrobe crew.

P: Theatre 222 or Theatre 325

Fall and Spring.

**THEATRE 358. Performance Practicum: Musical. 1 Credit.**

Performance in a mainstage musical.

Fall and Spring.

**THEATRE 359. Production Practicum: Theatre Management. 1 Credit.**

Production Related Theatre Management work can be completed working with the Production Director or Managing Director of Theatre and Dance predominantly on Front of House related activities.

P: Consent of Instructor

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 372. 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. The course is dependent on skills developed in both Jazz 2 and Tap 1

P: Theatre 161 and Theatre 228

Spring.

**THEATRE 390. Advanced Applied Musical Theatre Voice. 1-2 Credits.**

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: Theatre 290 and instructor consent. REC: conc enr in choral/vocal ensemble or theatre/musical theatre production.

Fall and Spring.

**THEATRE 404. Design Seminar. 1-3 Credits.**

Focused study on a specific area or areas of theatrical design and technology such as: rendering, drawing, modeling, projections, special effects, automation, design aesthetics, metalworking, rigging, programming, production management and portfolio presentation. Course is repeatable for credit if topics differ; may be taken 9 times for a total of 9 credits.

**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.

Fall Odd.

**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 480. Theatre Capstone Project. 1-3 Credits.**

Students will complete a faculty approved project with one or more faculty members, at least one of which is from Theatre and Dance, culminating in a performance, staged reading, production related design/technical position, research project, community based activity, internship, travel course, or other approved project.

P: Theatre 131, Theatre 221, Theatre 222, Theatre 351

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.**

Examines the richness and complexity of the human experience in modern cities and their broader regional context. The city is seen as an arena in which interrelationships between enduring human concerns and social institutions are expressed and asks how the city influences these interrelationships. Likewise, in what manner do established institutions and concerns influence the city and the metropolitan region of which they are a part? This course is an exploration of cities and how their broader institutional contexts evolve over time.

Fall and Spring.

**UR RE ST 102. World Regions and Concepts: A Geographic Analysis. 3 Credits.**

Introduction to regional geography, exploring the relationship between physical ecologies and human ecologies. The course covers the regional geographies of the earth's major geographic realms.

Fall Only.

**UR RE ST 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman

Fall Only.

**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 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. 1-6 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.

**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. Course examines the role of race and ethnicity in each policy issue.

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 101.

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 314. Suburbs. 3 Credits.**

The study of suburbanization and suburban lifestyles has long been secondary to general focus on the central city and urban neighborhoods in the urban disciplines (urban geography, urban sociology). In this recentering of urban study on suburban communities, we look at the development of suburbs in the early modern period, the expansion of suburbs in the post-WWII era, and the emergence of a new suburban way of life in the 21st Century.

P: UR RE ST 100

Spring.

**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 101 or 203 or Ur Re St 100.

Spring Odd.

**UR RE ST 324. Latino Communities in the United States. 3 Credits.**

Survey of Latino communities in the United States, taking an interdisciplinary approach exploring Latino voices from the Humanities and Social Sciences. The course will explore issues of formation of ethnic communities, the diversity among Latino communities and current issues affecting Latinos in the U.S. such as immigration policy, bilingual education, and urban issues impacting Latino communities.

P: None

Spring Odd.

**UR RE ST 341. Urban Geography. 3 Credits.**

The course will focus on the different perspectives within contemporary urban geography and introduce students to social constructions of urban morphology and the interaction between social forces and spatial organization.

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 412. Urban Planning. 3 Credits.**

Examines current trends in Planning theory, focusing on City Planning, Urban Design, and Regional Planning.

P: jr st 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 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 102. Women's Voices. 3 Credits.**

An introductory and interdisciplinary humanities course drawing upon diverse texts and methodologies representative of the following humanities disciplines: art, philosophy, religious studies, music, film, history, literature, feminist theory, cultural studies, media studies, and performance art/drama. Students will examine multicultural readings ranging from creative nonfiction, essays, feminist theory, philosophical reflection, fiction, poetry, historical accounts, drama, cultural critique, feminist analysis, memoir, visual arts, letters, diaries, and others to build an understanding of the multiple scholarly approaches in the humanities to the study of women's lives.

**WOST 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.  
Reserved for New Incoming Freshman.

**WOST 201. Introduction to LGBTQ Studies. 3 Credits.**

This course will provide an introduction into Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ) Studies. Considering LGBTQ Studies as an interdisciplinary field, this course will focus on how the central concepts of sexual orientation and gender identity work within history, politics, literature, technology, art, music, philosophy, education, and psychology. Throughout this course, students will work towards a deep understanding of the intersectional dynamics of privilege and oppression as they relate to LGBTQ individuals and culture by exploring the lived experiences of LGBTQ individuals and their families.

P: Eng Comp 105 or conc enr.

**WOST 203. Women in Popular Culture. 3 Credits.**

In this course, we will examine ways gender has been portrayed and are currently portrayed in the media, in television and movies, popular music, internet, print sources like magazines, popular fiction, and newspapers, and other cultural artifacts. With readings ranging from critical theory to popular fiction, we will speculate on the impact of and source for popular portrayals of women in particular and the social construction of gender, race, and other social categories. The course will also encourage students to question agency in the creation and consumption of mass culture. Issues of race, class, sexual orientation, age, and physical ability will be important as we explore and critically examine the forms and functions of popular culture.

**WOST 205. Women in Literature. 3 Credits.**

Surveys both women as writers and women as characters in literature, as well as the representation of gender and sexuality in literature. Concerned with literature from two or more cultures. Writers may include Mary Shelley, Audre Lorde, Herculine Barbin, Marjane Satrapi, and Alison Bechdel. Course is not repeatable for credit.

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 238. Sociological Perspectives on Gender. 3 Credits.**

A sociological examination of roles assigned to women and men in society, including the experiences of marriage, parenthood, employment and occupational attainment. Pays particular attention to gender role socialization and its cultural reinforcement, to patterns of gender relations and to ongoing changes.

**WOST 241. Introduction to Women's & Gender Studies. 3 Credits.**

Interdisciplinary introduction to the study of gender, including identity, expression, and sexuality; the influence of gender on social institutions and structures; and an intersectional examination of women, men, and LGBTQ+ lives in the United States historically and today.

Fall and Spring.

**WOST 247. Latin American and Latina Women. 3 Credits.**

This course will examine the lives and literary works of Latin American and Latina women within Latin American society and in the US. Particular attention will be given to the roles assigned to these women by patriarchal cultures and to the stereotypes that have influenced their lives. This course will examine how Latin American and Latina women have resisted race, class and gender oppression. The complex relationships among these factors and ethnicity will be examined through the analysis of a variety of primary texts, films, and scholarly articles.

**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. 1-6 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.

**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. The development and variation of sexual orientation and gender expression will be discussed.

P: Psych 203 or DJS 241

Fall and Spring.

**WOST 338. World Literatures. 3 Credits.**

A study of selected works from world literatures. A variable content course. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: English 290 or concurrent enrollment, Jr st.

Spring.

**WOST 348. Gender and the Law. 3 Credits.**

The changing legal status of women and LGBTQ+ people in relationship to other social forces; major historical landmarks in the development of their legal rights and current status in 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 identify, 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 and Gender. 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. Identity development for males and females throughout the life span, as well as the development and variation of sexual orientation will be discussed.

P: Psych 102. REC: Psych 203 and Psych 300 or Psych 302

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.

## Water Science (WATER)

### Courses

**WATER 201. Introduction to Water Science. 3 Credits.**

Water Science is the interdisciplinary study of water and its interaction with solids, liquids, gases, and organisms in various Earth systems. Water is essential to life, and it plays a critical role in nearly every natural process in Earth's lithosphere, atmosphere, hydrosphere, biosphere, and cryosphere.

The world faces significant challenges regarding water quantity, quality, and ecological function that are expected to worsen during the 21st century. It is rare to find a real-world system in which water does not play a significant role.

Fall Only.

**WATER 321. Stable Isotopes in the Environment. 1 Credit.**

Stable isotope analysis has become a standard tool in modern science. The natural variability in non-radioactive (stable) isotopes corresponds to specific physical and biological processes throughout the global Earth System. This course explores the basics of stable isotope chemistry, with most of the course dedicated to examples of their application across several scientific fields.

P: CHEM 211 or consent of instructor

Spring Odd.

**WATER 444. Geochemistry of Natural Waters. 3 Credits.**

This class will explore the theory and application of aqueous geochemistry principles to the study of surface and groundwater systems at low to moderate temperatures. The class will focus on inorganic processes including the hydrologic cycle, chemical weathering, chemical activities in natural waters, thermodynamics, kinetics, acid/base equilibria, carbonate chemistry, acid water systems, heavy metals, redox reactions, saline waters, and ancient fluids preserved in fluid inclusions.

P: GEOSCI 202, CHEM 211 & CHEM 212

Fall Even.

**WATER 491. Senior Thesis/Research in Water Science. 3 Credits.**

A project-based capstone experience where individual students address a specific aspect of water science through the use of scientific and mathematical skills.

P: Senior standing, Math 260 with C or better, instructor consent. REC: Geoscience/Env Sci 432, Water 330, or other appropriate course depending upon focus of thesis project

Fall and Spring.

**WATER 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. Course is repeatable for credit.



**WATER 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. Course is repeatable for credit.

P: fr or so st with cum gpa  $\geq$  2.50; or jr or sr st with cum gpa  $\geq$  2.00.

Fall and Spring.

# Faculty Members

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## A

**Rebecca Abler**; Professor; Ph.D., Virginia Polytechnic Institute and State University

**Theresa E Adsit**; Senior Lecturer; M.S., University of Wisconsin - Milwaukee

**Riaz Ahmed**; Assistant Professor; Ph.D., University of South Carolina

**Tanim Ahsan**; Assistant Professor; Ph.D., Marquette University

**Tohoro F Akakpo**; Associate Professor; Ph.D., Michigan State University\*

**Patricia A Albers**; Senior Lecturer; M.B.A., University of Wisconsin - Oshkosh

**Gregory S Aldrete**; Professor; Ph.D., University of Michigan

**Iftekhar Anam**; Assistant Professor; Ph.D., University of Memphis

**Scott A Ashmann**; Professor; Ph.D., Michigan State University\*

**Dana Atwood**; Associate Professor; Ph.D., Western Michigan University

**Andrew W Austin**; Associate Professor; Ph.D., University of Tennessee

## B

**Mandeep Bakshi**; Assistant Professor; Ph.D., Panjab University (India)

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**Carl A Battaglia**; Senior Lecturer; Ph.D., University of Wisconsin - Madison

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**Douglas Brusich**; Assistant Professor; Ph.D., University of Iowa

**Albert Bugaj**; Professor; Ph.D., Purdue University

**Deborah A Burden**; Senior Lecturer; M.S., University of Wisconsin - Stevens Point

**Kathleen C Burns**; Associate Professor; Ph.D., University of Massachusetts

## C

**Thomas Campbell**; Associate Professor; Ph.D., Southern Illinois University

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**Bryan James Carr**; Associate Professor; Ph.D., University of Oklahoma

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**Laxmi Chataut**; Assistant Professor; Ph.D., University of Alabama

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**Illene N Cupit**; Professor; Ph.D., Temple University

**Ryan M Currier**; Associate Professor; Ph.D., Johns Hopkins University\*

## D

**Jared Dalberg**; Associate Professor; M.E., Augusta State University

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**Gregory J Davis**; Professor; Ph.D., Northwestern University\*

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**Sarah A Detweiler**; Associate Professor; M.F.A., University of Florida

**William Dirienzo**; Assistant Professor; Ph.D., University of Virginia

**Mathew E Dornbush**; Professor; Ph.D., Iowa State University\*

**Michael L Draney**; Professor; Ph.D., University of Georgia\*

## E

**Karen Eckhardt**; Lecturer; Master of Education, Cardinal Stritch University

**Paul Emmett**; Professor; Ph.D., University of Chicago

**Jeffrey P Entwistle**; Professor; M.F.A., Michigan State University

**Paul Erdman**; Associate Professor; Ph.D., University of Iowa

## F

**Heidi S Fencl**; Professor; Ph.D., The Ohio State University\*

**Kevin J Fermanich**; Professor; Ph.D., University of Wisconsin - Madison\*

**Hernan Fernandez-Meardi**; Associate Professor; Ph.D., Universite de Montreal (Canada)

**Jennifer Flatt**; Professor; Ph.D., Loyola University

**Jana Fogaca**; Assistant Professor; Ph.D., West Virginia University

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**Sauna M Froelich**; Lecturer; JD, Marquette University

## G

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**Clifton G Ganyard**; Associate Professor; Ph.D., State University of New York at Buffalo

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**William Gear**; Assistant Professor; Ph.D., University of Pittsburgh\*

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**Lisa Grubisha**; Associate Professor; Ph.D., University of California - Berkeley

**Amulya Gurtu**; Associate Professor; Ph.D., Ryerson University

**Mary E Guy**; Senior Lecturer; M.S., University of Wisconsin - Oshkosh

## H

**Stefan T Hall**; Associate Professor; Ph.D., Saint Louis University

**Jennifer Ham**; Professor; Ph.D., Rutgers University

**Eric C Hansen**; Associate Professor; M.M., University of Kentucky

**Richard Hein**; Professor; Ph.D., University of Rhode Island

**David J Helpap**; Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Michael Hencheck**; Associate Professor; Ph.D., The Ohio State University

**Georgette Heyrman**; Assistant Professor; Ph.D., Northwestern University

**Doreen K Higgins**; Associate Professor; Ph.D., University of Kansas\*

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**Jenell L Holstead**; Associate Professor; Ph.D., University of Indiana

**Maruf Hossain**; Assistant Professor; Ph.D., University of Memphis

**Chris Houghton**; Post-Doctoral Associate

**Rebecca D Hovarter**; Lecturer; DNP, University of Minnesota

**Robert W Howe**; Professor; Ph.D., University of Wisconsin - Madison

**Ray Hutchison**; Professor; Ph.D., University of Chicago

## I

**Jeremy J Intemann**; Assistant Professor; Ph.D., Iowa State University

## J

**Derek S Jeffreys**; Professor; Ph.D., University of Chicago

**Woo Jeon**; Professor; Ph.D., University of Wisconsin - Madison

**Melvin Johnson**; Associate Professor; Ph.D., University of Nebraska-Lincoln

**Myunghee Jun**; Assistant Professor; Ph.D., Seoul National University

## K

**Amy Kabrhel**; Associate Professor; Ph.D., University of Minnesota

**James Kabrhel**; Associate Professor; Ph.D., University of Minnesota-Twin Cities

**Kevin M Kain**; Lecturer; Ph.D., Western Michigan University

**Daniel Kallgren**; Associate Professor; Ph.D., University of Minnesota-Twin Cities

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**Mark Karau**; Professor; Ph.D., Florida State University

**John F Katers**; Professor; Ph.D., Marquette University\*

**Timothy U Kaufman**; Associate Professor; Ph.D., Loyola University of Chicago\*

**Ryan Kauth**; Lecturer; M.B.A., Keller Graduate School of Management

**Harvey J Kaye**; Professor; Ph.D., Louisiana State University

**Setareh Khalili**; Lecturer; Master of Biotechnology, California State University - Fresno

**Carly Kibbe**; Assistant Professor; Ph.D., University of Wisconsin - Madison

**Mark T Kiehn**; Associate Professor; Ph.D., University of Colorado - Boulder\*

**Hye-Kyung Kim**; Associate Professor; Ph.D., Marquette University

**Mark Klemp**; Associate Professor; Ph.D., University of Michigan

**Margaret Kubek**; Lecturer; M.S., University of Wisconsin - Milwaukee

## L

**Arthur P Lacey**; Senior Lecturer; B.S., University of Wisconsin - Green Bay

**John P Leary**; Associate Professor; Ph.D., University of Wisconsin - Madison

**Lorena Lecanda**; Assistant Professor; Ph.D., Ohio State University

**Minkyu Lee**; Associate Professor; M.F.A., Rochester Institute of Technology

**Ekaterina M Levintova**; Professor; Ph.D., Western Michigan University

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**Pao Lor**; Professor; PH.D., University of Wisconsin - Madison\*

**David Louzecky**; Professor; Ph.D., University of Wisconsin-Madison

**James Vincent Lowery**; Associate Professor; Ph.D., University of Mississippi

**John A Luczaj**; Professor; Ph.D., Johns Hopkins University\*

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## M

**Vivek Madupu**; Assistant Professor; Ph.D., University of Memphis

**Mohammad Mahfuz**; Assistant Professor; Ph.D., University of Ottawa

**Kaoime E Malloy**; Professor; M.F.A., University of Iowa

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**James C Marker**; Associate Professor; Ph.D., Brigham Young University\*

**Ryan C Martin**; Professor; Ph.D., University of Southern Mississippi

**Ann Mattis**; Associate Professor; Ph.D., Loyola University

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