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Home

Publication Date: May 14, 2018

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

- Students entering in Fall 2018 or Spring 2019 will use this edition **(2018-2019)** 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

UW-Green Bay Education

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

Major Advantage

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

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

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

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

Every student completes 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

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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. 13)
- Institutional Learning Outcomes (http://www.uwgb.edu/provost/accreditation/institutional-learning-outcomes.asp)
- State Authorization for Distance Education (p. 14)
- UW-Green Bay Education (p. 15)
- 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 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) 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 Integrative Leadership Studies (BA-ILS), a Bachelor of Applied Studies in Integrative Leadership Studies (BAS-ILS), a Master of Science in Data Science (MS-DS), Master of Science in Sustainable Management (MS-SMGT), and Master of Science Degree in Nursing Leadership and Management in Health Systems (MSN).

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. 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.

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

Alabama
Alaska
Arizona
Arkansas
Colorado
Delaware
District of Columbia (Washington)
Georgia
Hawaii

Idaho
Illinois
Indiana
Iowa
Kansas
Louisiana
Maine
Maryland
Michigan
Minnesota
Missouri
Mississippi
Montana
Nebraska
Nevada
New Hampshire
New Mexico
North Carolina
North Dakota
Ohio
Oklahoma
Oregon
Rhode Island
South Carolina
South Dakota
Tennessee
Texas
Utah
Vermont
Virginia
Washington
West Virginia
Wyoming

States Authorized Outside of SARA
The University is authorized to offer its online degree programs in the following states:

California
Connecticut
Florida
Massachusetts
New Jersey
New York
Pennsylvania

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

Kentucky

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- Admissions (p. 17)
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- Transfer Students (p. 19)
- Special Students (non-degree seeking) (p. 20)
- Other Admission Information (p. 21)

- Academic Rules and Regulations (p. 22)
  - Degree Residency Requirement (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/degree-residency)
  - Guidelines for Majors and Minors (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/major-guidelines)
  - Guidelines for Certificates (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/cert-guidelines)
- Tuition and Fees (http://catalog.uwgb.edu/undergraduate/general-information/tuition-fees)
- Campus Maps (http://www.uwgb.edu/maps)
- Emergency and Parental Notification Policy (p. 22)
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- Official University Calendars (http://catalog.uwgb.edu/undergraduate/general-information/calendars)

Admissions

- Admission Standards (p. 17)
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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. (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 the 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).

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

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

- Educational Credential Evaluators (ECE) http://www.ece.org/
- World Education Services (WES) http://www.wes.org/

For undergraduate students, continuing education courses, graduate-level courses, and courses that are remedial, technical, vocational, or doctrinal in nature are not transferable.

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). (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/

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/ 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/.

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

1

- 165 Credit Rule (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/165-credit-rule)

A

- Absence and Attendance Policy (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/attendance)
- Academic Advising (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/advising)
- Academic Forgiveness (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/acad-forgiveness)
- Academic Honors (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/honors)
- Academic Standing (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/acad-standing)

C

- Calendars (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/calendars)
- Courses and Related Policies (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/course-policy)

D

- Declaration of Major (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/major-declaration)
- Definitions (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/definitions)
- Degree Residency Requirement (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/degree-residency)

E

- Earning a Second Degree (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/second-degree)

G

- Grades and Related Policies (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/grades)
- Guidelines for Certificates (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/cert-guidelines)
- Guidelines for Majors and Minors (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/major-guidelines)

R

- Registration Policies (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/registration)

T

- Transfer Credit Policy (http://catalog.uwgb.edu/undergraduate/general-information/academic-rules-regulations/transfer-policy)

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 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.

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.

Undergraduate Degree Components

- General Education Program (p. 25)
- Writing Competency (http://catalog.uwgb.edu/undergraduate/planning/english-competency)
- Math Competency (http://catalog.uwgb.edu/undergraduate/planning/math-competency)
- Capstone (http://catalog.uwgb.edu/undergraduate/planning/capstone)
- Graduation Requirements (http://catalog.uwgb.edu/undergraduate/planning/graduation-requirements)

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 [1]

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.

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
First Year Seminar		3
Fine Arts		3
Social Sciences		6
Humanities		6
Biological Sciences		3
Natural Sciences		3-5
Sustainability Perspective		3-4
Ethnic Studies Perspective		3
Global Culture		3
Quantitative Literacy		3-7
Total Credits		36-43

[1] 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/ 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
Biological Sciences		
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
Ethnic Studies Perspective		
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
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 DEV 346	Culture, Development and Health	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
SOCIOL 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

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
Fine Arts		
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 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 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 [2]	1
THEATRE 131	Acting I	3
THEATRE 137	Ballet I [2]	1
THEATRE 141	Period Dance Styles [2]	1
THEATRE 145	Modern Dance I [2]	1
THEATRE 161	Tap Dance I [2]	1
THEATRE 190	Introduction to Applied Musical Theatre Voice	1
THEATRE 219	UWGB Meets NYC: New York Theatre Trip	1
THEATRE 228	Jazz Dance II [2]	2
THEATRE 241	Improvisation for the Theatre	3
THEATRE 261	Tap Dance II [2]	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 [2]	1
THEATRE 336	Production Practicum: Performance [2]	1
THEATRE 338	Production Practicum: Scene Shop [2]	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
First Year Seminar [1]		
ART 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 DEV 198	First Year Seminar	3
HUM STUD 198	First Year Seminar	3
ILS 198	Integrative Leadership Seminar I	3
INFO SCI 198	First Year Seminar	3
MUSIC 198	First Year Seminar	3
NUT SCI 198	First Year Seminar	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

[1] 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
Global Culture		
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
BUS ADM 421	International Marketing	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 225	Intermediate French Conversation and Composition	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 225	Intermediate German Conversation and Composition	3
GERMAN 325	Advanced German Conversation and Composition	3
GERMAN 329	Representative German Authors	3
HISTORY 354	History of Modern East Asia	3
HISTORY 356	History of Modern Africa	3
HISTORY 358	Political History of Modern Latin America	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 DEV 342	Cross Cultural Human Development	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
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
PSYCH 350	Psychology and Culture	3
PU EN AF 102	Environment and Society	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	
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
Humanities [1]		
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 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 340	Science Fiction & Fantasy	3
HUM STUD 341	Science Fiction Film	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
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 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 251	Ethics of Engineering and Technology	3
PHILOS 351	Happiness and the Good Life	3
PHILOS 401	Plato and Aristotle	3
WOST 205/ENGLISH 206	Women in Literature	3

[1] 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
Natural Sciences		
CHEM 108	General Chemistry	3
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 103	Fundamentals of Physics I	5
PHYSICS 141	Astronomy	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
Quantitative Literacy		
ACCTG 300	Principles of Financial Accounting	4
BUS ADM 216	Business Statistics	4
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 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
Social Sciences [1]		
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
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 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 321/PU EN AF 321	Coastal Resources Policy and Management	3
GEOG 341/UR RE ST 341	Urban Geography	3

HUM DEV 102	Introduction to Human Development	3
POL SCI 100	Global Politics and Society	3
POL SCI 101	American Government and Politics	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
PU EN AF 102	Environment and Society	3
PU EN AF 215	Introduction to Public Administration	3
PU EN AF 315	Public and Non-Profit Management	3
PU EN AF 324	Transitioning to Sustainable Communities	3
PU EN AF 360	Immigration and Immigration Policy	3
PU EN AF 425	Fundraising and Marketing for Nonprofits	3
PU EN AF 426	Strategic Philanthropy: Civic Engagement Through Giving	3
PU EN AF 428	Public and Nonprofit Program Evaluation	3
PU EN AF 452/UR RE ST 452	Planning Methods	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 202	Introduction to Sociology	3
SOCIOL 203	Ethnic and Racial Identities	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

[1] 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
Sustainability Perspective		
ANTHRO 306	Environmental Anthropology	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 217	Human Disease and Society	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
PSYCH 390	Environmental 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

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
Biological Sciences		
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
Ethnic Studies Perspective		
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
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 DEV 346	Culture, Development and Health	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
SOCIOL 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

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
Fine Arts		
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 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 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 [2]	1
THEATRE 131	Acting I	3
THEATRE 137	Ballet I [2]	1
THEATRE 141	Period Dance Styles [2]	1
THEATRE 145	Modern Dance I [2]	1
THEATRE 161	Tap Dance I [2]	1
THEATRE 190	Introduction to Applied Musical Theatre Voice	1
THEATRE 219	UWGB Meets NYC: New York Theatre Trip	1
THEATRE 228	Jazz Dance II [2]	2
THEATRE 241	Improvisation for the Theatre	3
THEATRE 261	Tap Dance II [2]	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 [2]	1
THEATRE 336	Production Practicum: Performance [2]	1
THEATRE 338	Production Practicum: Scene Shop [2]	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
First Year Seminar [1]		
ART 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 DEV 198	First Year Seminar	3
HUM STUD 198	First Year Seminar	3
ILS 198	Integrative Leadership Seminar I	3
INFO SCI 198	First Year Seminar	3
MUSIC 198	First Year Seminar	3
NUT SCI 198	First Year Seminar	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

[1] 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
Global Culture		
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
BUS ADM 421	International Marketing	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 225	Intermediate French Conversation and Composition	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 225	Intermediate German Conversation and Composition	3
GERMAN 325	Advanced German Conversation and Composition	3
GERMAN 329	Representative German Authors	3
HISTORY 354	History of Modern East Asia	3
HISTORY 356	History of Modern Africa	3
HISTORY 358	Political History of Modern Latin America	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 DEV 342	Cross Cultural Human Development	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
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
PSYCH 350	Psychology and Culture	3
PU EN AF 102	Environment and Society	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	
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
Humanities [1]		
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 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 340	Science Fiction & Fantasy	3
HUM STUD 341	Science Fiction Film	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
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 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 251	Ethics of Engineering and Technology	3
PHILOS 351	Happiness and the Good Life	3
PHILOS 401	Plato and Aristotle	3
WOST 205/ENGLISH 206	Women in Literature	3

[1] 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
Natural Sciences		
CHEM 108	General Chemistry	3
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 103	Fundamentals of Physics I	5
PHYSICS 141	Astronomy	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
Quantitative Literacy		
ACCTG 300	Principles of Financial Accounting	4
BUS ADM 216	Business Statistics	4
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 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
Social Sciences [1]		
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
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 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 321/PU EN AF 321	Coastal Resources Policy and Management	3
GEOG 341/UR RE ST 341	Urban Geography	3
HUM DEV 102	Introduction to Human Development	3
POL SCI 100	Global Politics and Society	3
POL SCI 101	American Government and Politics	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
PU EN AF 102	Environment and Society	3
PU EN AF 215	Introduction to Public Administration	3
PU EN AF 315	Public and Non-Profit Management	3
PU EN AF 324	Transitioning to Sustainable Communities	3
PU EN AF 360	Immigration and Immigration Policy	3
PU EN AF 425	Fundraising and Marketing for Nonprofits	3
PU EN AF 426	Strategic Philanthropy: Civic Engagement Through Giving	3
PU EN AF 428	Public and Nonprofit Program Evaluation	3
PU EN AF 452/UR RE ST 452	Planning Methods	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 202	Introduction to Sociology	3

SOCIOL 203	Ethnic and Racial Identities	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

[1] 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
Sustainability Perspective		
ANTHRO 306	Environmental Anthropology	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 217	Human Disease and Society	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
PSYCH 390	Environmental 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

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. 46)
- Art (p. 50)
- Arts Management (p. 57)

B

- Biology (p. 61)
- Business Administration (p. 71)

C

- Chemistry (p. 79)
- Communication (p. 86)
- Computer Science (p. 91)

D

- Democracy and Justice Studies (p. 93)
- Design Arts (p. 100)

E

- Economics (p. 102)
- Education (p. 104)
- Engineering (http://catalog.uwgb.edu/undergraduate/programs/engineering)
- Engineering Technology (p. 109)
- English (p. 114)
- Environmental Policy and Planning (p. 120)
- Environmental Science (p. 124)

F

- First Nations Studies (p. 129)
- French and Francophone Studies (p. 132)

G

- Geography (p. 134)
- Geoscience (p. 135)
- German (p. 140)
- Global Studies (p. 145)

H

- Health Information Management and Technology (p. 146)
- History (p. 148)
- Human Biology (p. 152)
- Human Development (p. 168)
- Humanities (http://catalog.uwgb.edu/undergraduate/programs/humanities)

I

- Individual Major (p. 172)
- Information Sciences (p. 172)

M

- Mathematics & Statistics (p. 175)
- Music (p. 180)

N

- Nursing (p. 194)

O

- Organizational Leadership (http://catalog.uwgb.edu/undergraduate/programs/organizational-leadership)

P

- Philosophy (p. 197)
- Physics (p. 200)
- Political Science (p. 201)
- Psychology (p. 204)
- Public Administration (p. 211)

S

- Social Work (p. 214)
- Sociology (p. 219)
- Spanish and Latin American Studies (p. 220)

T

- Theatre and Dance (p. 224)

U

- Urban Studies (http://catalog.uwgb.edu/undergraduate/programs/urban-studies)

W

- Women's and Gender Studies (p. 234)

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. Prior to doing so, however, students must read and accept an online Honor Code (https://sis.uwgb.edu/ngforms/?formid=9ea6ed5f-44fb-41e5-a94c-10c7f63f4b05&Clear=Y) (pre-declaration form). Once the Honor Code is received and accepted by the Cofrin School of Business, students interested in an Accounting major or minor may complete a Declaration of Major/Minor/Certificate e-form (http://www.uwgb.edu/registrar/forms). All Accounting major or minor Declaration of Major/Minor/Certificate e-forms should be emailed to vossk@uwgb.edu rather than to a specific adviser.

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. 48)
- Accounting Minor (p. 49)

Suggested Five-Year Plan

			First Year
Fall	**Credits**	**Spring**	**Credits**
First Year Seminar Gen. Ed.	3	Fine Arts Gen. Ed.	3
Math Competency Requirement	3	BUS ADM 216	4
Social Sciences Gen. Ed.[Suggested Bus Adm 202 or 206]	3	Biological Sciences Gen. Ed.	3
Humanities Gen. Ed.	3	Sustainability Perspective Gen. Ed.	3
English Competency Requirement	3	Humanities Gen. Ed.	3
	15		16

			Second Year
Fall	**Credits**	**Spring**	**Credits**
ACCTG 300	4	ACCTG 301	4
BUS ADM 322	3	ACCTG 302	3
BUS ADM 389	3	BUS ADM 350	3
ENG COMP 105	3	BUS ADM 306	3
BUS ADM 305	3	ECON 202	3
	16		16

Third Year			
Fall	**Credits**	**Spring**	**Credits**
ACCTG 313	3	ACCTG 415	3
ACCTG 410	3	ACCTG 314	3
ACCTG 303	2	BUS ADM 343	3
ECON 203	3	ACCTG 413 or Part-Time Internship	3
Ethnic Studies Perspective Gen. Ed.	3	Minor or Elective Credit	3
	14		15

Fourth Year			
Fall	**Credits**	**Spring**	**Credits**
BUS ADM 345, 442, 446, or 450	3	Full-Time or Part-Time Internship	3-9
BUS ADM 452	3	ACCTG 413	3
ACCTG 316	3	ACCTG 414	4
Minor or Elective Credit	6	Minor or Elective Credit	3
	15		13-19

Fifth Year			
Fall	**Credits**	**Spring**	**Credits**
ACCTG 411	4	BUS ADM 490	3
Natural Sciences Gen. Ed.	3	ACCTG 412	4
Global Culture Gen. Ed.	3	Minor or Elective Credit	3
BUS ADM 362, 384, 472, 481, 482, or 489	3	Minor or Elective Credit	3
Minor or Elective Credit	3		
	16		13

Total Credits: 149-155

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

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

Heather Kaminski; Lecturer; MBA, Lakeland University

Accounting Major

Code	Title	Credits
Supporting Courses		13-16
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
or ENG COMP 200	Professional Writing for Business Majors	
BUS ADM 202	Business and Its Environment	
BUS ADM 216	Business Statistics	
or MATH 260	Introductory Statistics	
Upper-Level Courses [2]		71
Core Courses		
ACCTG 300	Principles of Financial Accounting [2]	
ACCTG 302	Principles of Managerial Accounting [2]	
BUS ADM 305	Legal Environment of Business	
BUS ADM 306	Business Law	
BUS ADM 322	Introductory Marketing	
BUS ADM 343	Corporation Finance	
BUS ADM 350	Business Computer Applications	
BUS ADM 389	Organizational Behavior	
BUS ADM 452	Business Analytics	
BUS ADM 482	Strategic Management	
Choose one of the following Marketing courses:		
BUS ADM 327	Selling and Sales Management	
BUS ADM 384	Introduction to Supply Chain Management	

BUS ADM 421	International Marketing
BUS ADM 423	Advertising
BUS ADM 424	Marketing Research
BUS ADM 426	Marketing Management
BUS ADM 428	Consumer Behavior
Choose one of the following Finance courses:	
BUS ADM 344	Real Estate Principles
BUS ADM 345	Risk Management and Insurance
BUS ADM 347	Financial Markets and Institutions
BUS ADM 442	Principles of Investment
BUS ADM 445	International Financial Management
BUS ADM 446	Advanced Corporation Finance
BUS ADM 447	Derivatives
BUS ADM 450	Bank Administration
Choose one of the following Management courses:	
BUS ADM 362	Introduction to Human Resource Management
BUS ADM 380	Project Management
BUS ADM 384	Introduction to Supply Chain Management
BUS ADM 472	Leadership Development
BUS ADM 481	Entrepreneurship and Small Business Management
BUS ADM 489	Organizational Culture & Change
BUS ADM 499	Travel Course
Accounting Courses	
ACCTG 301	Intermediate Accounting I [2]
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	84-87

[1] Satisfied for students with an ACT English score of 32 or higher

[2] Students must earn a B or better in Accounting 300, 301, and 302 in order to take upper-level courses in Accounting.

Accounting Minor

Code	Title	Credits
Supporting Courses		3-6
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
or ENG COMP 200	Professional Writing for Business Majors	
ECON 202	Macro Economic Analysis	
or ECON 203	Micro Economic Analysis	
Upper-Level Courses [2]		23-25
ACCTG 300	Principles of Financial Accounting [2]	
ACCTG 301	Intermediate Accounting I [2]	
ACCTG 302	Principles of Managerial Accounting [2]	
BUS ADM 305	Legal Environment of Business	
or BUS ADM 322	Introductory Marketing	
ACCTG 313	Intermediate Accounting II	
or ACCTG 414	Cost Accounting	

Choose two of the following courses:	
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 415	Advanced Income Tax Theory and Practice
Total Credits	26-31

[1] Satisfied for students with an ACT English score of 32 or higher

[2] Students must earn a B or better in Accounting 300, 301, and 302 in order to take upper-level courses in Accounting.

Art

(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. 52)
- Pre-Art Therapy (p. 53)
- Studio Art (p. 55)

Area of Emphasis

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

- Art History (p. 56)
- Studio Art (p. 57)

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. 51)

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. 51)

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.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
ART 102	3	ART 103		3
ART 105, 106, or 107	3	ART 105 or 106		3
First Year Seminar	3	ART 106 or 107		3
General Ed	3	General Ed		3
General Ed or Elective	3	General Ed or Elective		3
	15			15

				Sophomore
Fall	**Credits**	**Spring**		**Credits**
ART 101	1	ART 2XX Intro Two-Dimensional Course		3
ART 2XX Intro Two-Dimensional Course	3	ART 302		3
ART 2XX Intro Three-Dimensional Course	3	ART 202		3
General Ed	3	DESIGN 131		3
General Ed	3	General Ed		3
General Ed	3			
	16			15

				Junior
Fall	**Credits**	**Spring**		**Credits**
ART 376	3	ART 3XX/4XX Intermediate/Advanced Course		3
DESIGN 231	3	ART 3XX/4XX Intermediate/Advanced Course		3
General Ed or Elective	3	DESIGN 231 or 332		3
General Ed or Elective	3	General Ed		3
General Ed or Elective	3	General Ed		3
	15			15

				Senior
Fall	**Credits**	**Spring**		**Credits**
ART 3XX/4XX Intermediate/Advanced Course	3	ART 3XX/4XX Intermediate/Advanced Course		3
DESIGN 332 or 431 (or DESIGN 3XX/4XX Minor Elective)	3	ART 3XX/4XX Intermediate/Advanced Course		3
General Ed	3	DESIGN 433 (or DESIGN 3XX/4XX Minor Elective)		3
General Ed or Elective	3	Elective		3
Elective	3	General Ed		3
	15			15

Total Credits: 121

Art Major

Area of Emphasis

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

- Art Education (p. 52)
- Pre-Art Therapy (p. 53)
- Studio Art (p. 55)

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), 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
Supporting Core Courses		40
Art History		
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	
Design Core		
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
Two-Dimensional Studios		
ART 210	Introduction to Painting	
ART 243	Introduction to Photography	
ART 270	Introduction to Printmaking	
Three-Dimensional Studios		
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
Upper-Level Core Courses		24
Required Core Courses		
EDUC 316	Teaching Art in the Middle and Secondary Schools	
Drawing (choose one of the following courses):		
ART 302	Intermediate Drawing	
or ART 304	Figure Drawing	
Art History (choose two of the following courses):		
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	
Choose 12 credits of Studio Art courses [1]		
Total Credits		64

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

Pre-Art Therapy Emphasis

ART Major

Code	Title	Credits
Supporting Art Courses		31
Art History:		
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	
Design Core:		

ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
Two-dimensional studios (choose 2 for total 6 credits):		
ART 210	Introduction to Painting	
ART 243	Introduction to Photography	
ART 270	Introduction to Printmaking	
Three-dimensional studios (choose 2 for total 6 credits):		
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
Supporting Psychology Courses:		7
PSYCH 102	Introduction to Psychology	
or HUM DEV 102	Introduction to Human Development	
Choose one Statistics course:		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
Upper Level Art Courses:		9
ART 302	Intermediate Drawing	
or ART 304	Figure Drawing	
Choose two courses:		
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	
Upper Level Art Studio Courses:		9
Complete any 9 credits from Upper-Level Studio list including one 400-level course.		
ART 304	Figure Drawing	
ART 402	Advanced Drawing	
Painting:		
ART 309	Intermediate Painting: Oil Painting	
ART 310	Intermediate Painting: Media Exploration	
ART 311	Intermediate Painting: Contemporary Approaches	
ART 410	Advanced Painting	
Photography:		
ART 343	Photography II	
ART 344	Photography III	
ART 443	Advanced Problems in Photography	
Printmaking:		
ART 373	Intermediate Printmaking	
ART 375	Screen Printing	
ART 470	Advanced Printmaking	
Sculpture:		
ART 321	Intermediate Sculpture	
ART 421	Advanced Sculpture	
Ceramics:		

ART 331	Intermediate Ceramics	
ART 431	Advanced Ceramics	
Textiles:		
ART 355	Intermediate Fibers/Textiles	
ART 453	Advanced Fibers/Textiles	
Jewelry/Metals:		
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)	
Upper Level Psychology Courses:		13
PSYCH 300	Research Methods in Psychology	
PSYCH 438	Counseling and Psychotherapy	
choose 6 credits of PSYCH electives		
PSYCH 305	Psychology of Stereotyping and Prejudice	
PSYCH 350	Psychology and Culture	
PSYCH 401	Psychology of Women	
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
Supporting Core Courses		31
Art History		
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	
Design Core		
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
Two-Dimensional Studios (choose 6 credits):		
ART 210	Introduction to Painting	
ART 243	Introduction to Photography	
ART 270	Introduction to Printmaking	
Three-Dimensional Studios (choose 6 credits):		
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
Upper-Level Core Courses		24

Required Core Courses	
ART 302	Intermediate Drawing
or ART 304	Figure Drawing
Art History (choose two of the following courses):	
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
Upper-Level Studio Art Emphasis Courses (15 credits) [1]	
Total Credits	55

[1] 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. 56)
- Studio Art (p. 57)

Art History Emphasis

ART Minor

Code	Title	Credits
Supporting Courses		15
ART 102	History of the Visual Arts: Ancient to Medieval	
or ART 103	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	
Upper-Level Courses		9
Choose three of the following courses:		
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	
Total Credits		24

Studio Art Emphasis

ART Minor

Code	Title	Credits
Supporting Courses		19
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
ART 202	Modern Art	
Introductory Studios (choose 6 credits):		
ART 210	Introduction to Painting	
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 243	Introduction to Photography	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
ART 270	Introduction to Printmaking	
Upper-Level Courses [1]		6
Total Credits		25

[1] 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/.

- Arts Management Major (p. 58)

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

- Arts Management Minor - General (p. 60)
- Arts Management Minor - Gallery and Museum Practices (p. 60)

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. 58)

Ellen W Rosewall; Professor; M.F.A., University of Minnesota, chair

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
COMM 133	3	ARTS MGT 256	3
First Year Seminar	3	POL SCI 101	3
Arts Elective	3	Arts Elective	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	15		15

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
ARTS MGT 257	3	ARTS MGT 354	3
Choose one from Supporting Courses in Communication and Business	3	Arts Elective	3
Upper-Level Arts	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	15		15

			Junior
Fall	**Credits**	**Spring**	**Credits**
ARTS MGT 355	3	ARTS MGT 356	3
ARTS MGT 480	1	ARTS MGT 480	1
General Ed	3	COMM 380	3
General Ed	3	PU EN AF 415	3
Elective	3	General Ed	3
Elective	3	Elective	3
	16		16

			Senior
Fall	**Credits**	**Spring**	**Credits**
ARTS MGT 480	1	ARTS MGT 455 or 497	1-12
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3		
Elective	3		
	16		10-21

Total Credits: 118-129

Arts Management Major

Code	Title	Credits
Supporting Courses		21
Required Core Courses		
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	
Applied Arts (choose a minimum of 3 credits):		
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	
History/Theory (choose a minimum of 3 credits):		
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	
Communication and Business (choose 3 credits):		
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	
Upper-Level Courses		24
Required Core Courses		
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)	
Internship/Practicum (choose a minimum of 3 credits):		
ARTS MGT 455	Practicum in Arts Management	
ARTS MGT 497	Internship (minimum 3.0 GPA required for internship placement)	
Upper-Level Arts (choose 3 credits):		
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	
Management and Business (choose 6 credits):		
PU EN AF 344	Leadership in Organizations	
PU EN AF 415	Public and Nonprofit Budgeting	
PU EN AF 426	Strategic Philanthropy: Civic Engagement Through Giving	
PU EN AF 428	Public and Nonprofit Program Evaluation	
UR RE ST 312	Community Politics	
Total Credits		45

Arts Management Minor

- Gallery and Museum Practices (p. 60)
- General Emphasis (p. 60)

Gallery and Museum Practices Emphasis

ARTS MANAGEMENT Minor

Code	Title	Credits
Supporting Courses		9
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	
Upper-Level Courses		15
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 MANAGMENT Minor

Code	Title	Credits
Supporting Courses		9
ARTS MGT 256	Understanding the Arts	
ARTS MGT 257	Arts in the Community	
Choose 3 credits:		
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	
Upper-Level Courses		12
ARTS MGT 354	Managing Arts and Cultural Organizations	
ARTS MGT 355	Funding and Financial Issues in the Arts	
ARTS MGT 356	Promoting the Arts	
Choose 3 credits:		
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. 66)
- Biology for Educators (p. 67)
- Cell/Molecular (p. 68)
- Ecology and Conservation (p. 70)
- Microbiology (http://catalog.uwgb.edu/undergraduate/programs/biology/major/microbiology)
- Pre-Veterinary (http://catalog.uwgb.edu/undergraduate/programs/biology/major/pre-vet)
- Biology Minor (p. 71)

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. 63)
- Biology Major with Emphasis in Ecology & Conservation Biology Curriculum Guide Example (p. 65)
- Biology Major with Emphasis in Cell/Molecular Biology Curriculum Guide Example (p. 64)
- Biology Major with Emphasis in Biology for Educators Curriculum Guide Example (p. 63)

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*

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)

Donna Ritch; Associate Professor; Ph.D., Pennsylvania State University

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

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. 63)
- Biology Major with Emphasis in Ecology & Conservation Biology Curriculum Guide Example (p. 65)
- Biology Major with Emphasis in Cell/Molecular Biology Curriculum Guide Example (p. 64)
- Biology Major with Emphasis in Biology for Educators Curriculum Guide Example (p. 63)

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.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 201 & BIOLOGY 202	4	BIOLOGY 203 & BIOLOGY 204		4
CHEM 211 & CHEM 213	5	CHEM 212 & CHEM 214		5
First Year Seminar	3	MATH 260		4
General Ed	3	General Ed / Core Minor		3
	15			16
				Sophomore
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 307 & BIOLOGY 308 (or Biology 302)	4	BIOLOGY 303		3
ENG COMP 105	3	BIOLOGY 309		3
MATH 202	4	General Ed		3
General Ed / Core Minor	3	General Ed		3
General Ed	3	Core Minor		3
	17			15
				Junior
Fall	**Credits**	**Spring**		**Credits**
ENV SCI 302	4	BIOLOGY 346		3
General Ed	3	General Ed		3
Biology Elective	3-4	Biology Elective		3-4
Biology Elective	3-4	Biology/Minor Elective		3-4
Elective / Minor	3	Elective		3
	16-18			15-17
				Senior
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 490 (fall or spring)	1	BIOLOGY 490 (fall or spring)		1
BIOLOGY 498 or 497	2-3	Biology Elective		3-4
General Ed	3	Elective for Minor		3-4
Biology Elective	3	Elective		3-4
Elective for Minor	3	Elective		3-4
Elective	3			
	15-16			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.

				Freshman
Fall	**Credits**		**Spring**	**Credits**
BIOLOGY 201 & BIOLOGY 202	4		BIOLOGY 203 & BIOLOGY 204	4
CHEM 211 & CHEM 213	5		CHEM 212 & CHEM 214	5
First Year Seminar	3		MATH 260	4
General Ed	3		General Ed / Core Minor	3
	15			16
				Sophomore
Fall	**Credits**		**Spring**	**Credits**
ENG COMP 105	3		BIOLOGY 303	3
BIOLOGY 307 & BIOLOGY 308 (or Biology 302)	4		BIOLOGY 309	3
MATH 202	4		General Ed	3
General Ed / Core Minor	3		General Ed	3
General Ed	3		Core Minor	3
	17			15
				Junior
Fall	**Credits**		**Spring**	**Credits**
ENV SCI 302	4		BIOLOGY 346 or 311	3-4
General Ed	3		General Ed	3
Biology Elective	3-4		Biology Elective	3-4
Biology Elective	3-4		Biology / Minor Elective	3-4
Elective / Minor	3		Elective	3
	16-18			15-18
				Senior
Fall	**Credits**		**Spring**	**Credits**
BIOLOGY 490 (fall or spring)	1		BIOLOGY 490 (fall or spring)	1
General Ed	3		Elective	3
General Ed	3		Elective	3
Elective	3		Elective	3
Elective	3		Elective	3
Elective	3			
	16			13

Total Credits: 123-128

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.

				Freshman
Fall	**Credits**		**Spring**	**Credits**
BIOLOGY 201 & BIOLOGY 202	4		BIOLOGY 203 & BIOLOGY 204	4
CHEM 211 & CHEM 213	5		CHEM 212 & CHEM 214	5
First Year Seminar	3		MATH 260	4
General Ed	3		General Ed / Core Minor	3
	15			16
				Sophomore
Fall	**Credits**		**Spring**	**Credits**
BIOLOGY 302	4		BIOLOGY 303	3
ENG COMP 105	3		BIOLOGY 309	3
MATH 202	4		General Ed	3
General Ed	3		General Ed	3
Elective	3		Elective	3
	17			15

				Junior
Fall	Credits	Spring		Credits
BIOLOGY 307 & BIOLOGY 308	4	BIOLOGY 346		3
ENV SCI 302	4	CHEM 330 & CHEM 301 (or Organic I in Fall)		4
CHEM 302 & CHEM 304 (or Bio-Organic in Spring)	4	Biology 407		
General Ed	3	General Ed		3
		Elective		3
		Elective		3
	15			16

				Senior
Fall	Credits	Spring		Credits
BIOLOGY 490 (fall or spring)	1	BIOLOGY 490 (fall or spring)		1
Elective	3	Biology Elective		3-4
General Ed	3	Elective for Minor		3-4
Biology Elective	3	Elective		3-4
Elective for Minor	3	Elective		3-4
Elective	3			
	16			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.

				Freshman
Fall	Credits	Spring		Credits
BIOLOGY 201	3	BIOLOGY 203		3
BIOLOGY 202	1	BIOLOGY 204		1
CHEM 211	4	CHEM 212		4
CHEM 213	1	CHEM 214		1
First Year Seminar	3	MATH 260		4
General Ed	3	General Ed		3
	15			16

				Sophomore
Fall	Credits	Spring		Credits
BIOLOGY 307 & BIOLOGY 308	4	BIOLOGY 303		3
ENG COMP 105	3	ENV SCI 302		4
MATH 202	4	General Ed		3
General Ed/Core Minor	3	General Ed		3
General Ed	3	Core Minor		3
	17			16

				Junior
Fall	Credits	Spring		Credits
BIOLOGY 302	4	General Ed		3
BIOLOGY 309	3	Biology Elective		3-4
ENV SCI 469	4	Biology/Minor Elective		3-4
General Ed	3	Elective		3
Elective / Minor	3	Elective		3
	17			15-17

				Senior
Fall	Credits	Spring		Credits
BIOLOGY 490 (fall or spring)	1	BIOLOGY 490 (fall or spring)		1
BIOLOGY 498 or 497	2-3	Biology Elective		3-4
General Ed	3	Elective for Minor		3-4
Biology Elective	3	Elective		3-4

Elective for Minor	3	Elective	3-4
Elective	3		
	15-16		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. 66)
- Biology for Educators (p. 67)
- Cell/Molecular (p. 68)
- Ecology and Conservation (p. 70)
- Microbiology (http://catalog.uwgb.edu/undergraduate/programs/biology/major/microbiology)
- Pre-Veterinary (http://catalog.uwgb.edu/undergraduate/programs/biology/major/pre-vet)

Animal Biology Emphasis

BIOLOGY Major

Code	Title	Credits
Supporting Courses		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	
Mathematics (choose one course):		
COMP SCI 256	Introduction to Software Design	
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
Writing (choose one course): [1]		
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	Cell Biology and Cell Biology Laboratory	
or BIOLOGY 302	Principles of Microbiology	
BIOLOGY 311	Plant Physiology	
or BIOLOGY 346	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 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
HUM BIOL 402	Human Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 444	Endocrinology
Seminar, 1 credit required	
BIOLOGY 490	Biology Seminar
Total Credits	55-62

[1] Satisfied with an ACT English score of 32 or higher

Biology for Educators Emphasis

BIOLOGY Major

Code	Title	Credits
Supporting Courses		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	
Mathematics (choose one course):		
COMP SCI 256	Introduction to Software Design	
MATH 104	Precalculus	
MATH 201	Calculus for the Management and Social Sciences	
MATH 202	Calculus and Analytic Geometry I	
Writing (choose one course):		
ENG COMP 105	English Composition II: Composition and Rhetoric	
INFO SCI 390	Technical Writing	
Upper Level Courses		30-33
Required courses		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	
or BIOLOGY 302	Principles of Microbiology	
BIOLOGY 303	Genetics	
BIOLOGY 309	Evolutionary Biology	
BIOLOGY 311	Plant Physiology	
or BIOLOGY 346	Comparative Physiology	

ENV SCI 302	Principles of Ecology
Choose 12-14 credits of the following areas:	
Animal Biology (minimum of one course):	
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
Ecology and Conservation Biology (minimum of one course):	
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
Cell/Molecular Biology (minimum of one course):	
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
Seminar, 1 credit required	
BIOLOGY 490	Biology Seminar
Total Credits	55-62

[1] Satisfied with an ACT English score of 32 or higher

Cell/Molecular Emphasis

BIOLOGY Major

Code	Title	Credits
Supporting Courses		28-29
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution	

CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
MATH 260	Introductory Statistics	
Mathematics (choose one course):		
COMP SCI 256	Introduction to Software Design	
MATH 104	Precalculus	
MATH 201	Calculus for the Management and Social Sciences	
MATH 202	Calculus and Analytic Geometry I	
Writing (choose one course): [1]		
ENG COMP 105	English Composition II: Composition and Rhetoric	
INFO SCI 390	Technical Writing	
Upper Level Courses		30-33
Required courses		
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	
Minimum of 4 credits of the following courses:		
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
Choose a minimum of 5 credits from the following courses:		
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	
Seminar, 1 credit required		
BIOLOGY 490	Biology Seminar	
Total Credits		58-62

[1] Satisfied with an ACT English score of 32 or higher

Ecology and Conservation Emphasis

BIOLOGY Major

Code	Title	Credits
Supporting Courses		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	
Mathematics (choose one course):		
COMP SCI 256	Introduction to Software Design	
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
Writing (choose one course): [1]		
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	
ENV SCI 469	Conservation Biology	
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	
or BIOLOGY 302	Principles of Microbiology	
BIOLOGY 311	Plant Physiology	
or BIOLOGY 346	Comparative Physiology	
Choose 8-12 credits from the following courses:		
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	
ENV SCI 467	Capstone in Environmental Science	
ENV SCI 499	Travel Course	
Seminar, 1 credit required		
BIOLOGY 490	Biology Seminar	
Total Credits		55-62

[1] Satisfied with an ACT English score of 32 or higher

Biology Minor

Code	Title	Credits
Supporting Courses		18
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
Upper-Level Courses		17-18
BIOLOGY 303	Genetics	
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	
or BIOLOGY 302	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 a Business Administration major or minor at any time with any number of credits. Prior to doing so, however, students must read and accept an online Honor Code (https://sis.uwgb.edu/ngforms/?formid=9ea6ed5f-44fb-41e5-a94c-10c7f63f4b05&Clear=Y) (pre-declaration form). Once the Honor Code is received and accepted by the Cofrin School of Business, students interested in a Business Administration major or minor may complete a Declaration of Major/Minor/Certificate e-form (http://www.uwgb.edu/registrar/forms). All Business Administration major or minor Declaration of Major/Minor/Certificate e-forms should be emailed to vossk@uwgb.edu rather than to a specific adviser.

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

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

Area of Emphasis

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

- Business Analysis (http://catalog.uwgb.edu/undergraduate/programs/business-administration/major/analysis-emphasis)
- Finance (p. 73)
- General Business (p. 74)
- Human Resource Management (p. 75)
- Management (p. 76)
- Marketing (p. 77)
- Supply Chain Management (http://catalog.uwgb.edu/undergraduate/programs/business-administration/major/supply-emphasis)

- Business Administration Minor (p. 78)
- International Business Minor (p. 79)

Business Administration Major - Emphasis in Finance

Suggested Four-Year Plan

				First Year
Spring	**Credits**			
BUS ADM 216	4			
ECON 203	3			
	7			
				Second Year
Spring	**Credits**	**Fall**		**Credits**
ACCTG 302	3	ACCTG 300		4
BUS ADM 350	3	BUS ADM 322		3
BUS ADM 389	3	ECON 202		3
BUS ADM 343	3	ENG COMP 105		3
	12			13
				Third Year
Spring	**Credits**	**Fall**		**Credits**
BUS ADM 305	3	BUS ADM 344, 344, 345, 442, 445, 446, 447, or 450		3
BUS ADM 344, 345, 442, 445, 446, 447, or 450	3	BUS ADM 347		3
BUS ADM 327, 421, 423, 424, or 428	3			
	9			6
				Fourth Year
Spring	**Credits**	**Fall**		**Credits**
BUS ADM 490	3	BUS ADM 362, 384, 472, 481, 482, or 489		3

BUS ADM 344, 345, 442, 445, 446, 447, or 450	3	BUS ADM 344, 345, 442, 445, 446, 447, or 450	3
	6		6

Total Credits: 59

Meir Russ; Professor; Ph.D., The Ohio State University*

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

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

James F Loebl; 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

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

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

Amulya Gurtu; Assistant Professor; Ph.D., Ryerson 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

Heather Kaminski; Lecturer; MBA, Lakeland University

Business Administration Major

Area of Emphasis

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

- Business Analysis (http://catalog.uwgb.edu/undergraduate/programs/business-administration/major/analysis-emphasis)
- Entrepreneurship (http://catalog.uwgb.edu/undergraduate/programs/business-administration/major/entrepreneurship-emphasis)
- Finance (p. 73)
- General Business (p. 74)
- Human Resource Management (p. 75)
- Management (p. 76)
- Marketing (p. 77)
- Supply Chain Management (http://catalog.uwgb.edu/undergraduate/programs/business-administration/major/supply-emphasis)

Finance Emphasis

BUSINESS ADMINISTRATION Major

Code	Title	Credits
Supporting Courses		13-16
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
or ENG COMP 200	Professional Writing for Business Majors	

BUS ADM 202	Business and Its Environment	
BUS ADM 216	Business Statistics	
or MATH 260	Introductory Statistics	
Upper-Level Courses		25
ACCTG 300	Principles of Financial Accounting	
ACCTG 302	Principles of Managerial Accounting	
BUS ADM 305	Legal Environment of Business	
BUS ADM 322	Introductory Marketing	
BUS ADM 343	Corporation Finance	
BUS ADM 350	Business Computer Applications	
BUS ADM 389	Organizational Behavior	
BUS ADM 482	Strategic Management	
Finance Emphasis Required Courses		21
BUS ADM 347	Financial Markets and Institutions	
Choose four of the following Finance courses:		
BUS ADM 344	Real Estate Principles	
BUS ADM 345	Risk Management and Insurance	
BUS ADM 442	Principles of Investment	
BUS ADM 445	International Financial Management	
BUS ADM 446	Advanced Corporation Finance	
BUS ADM 447	Derivatives	
BUS ADM 450	Bank Administration	
Choose one of the following Management courses:		
BUS ADM 362	Introduction to Human Resource Management	
BUS ADM 380	Project Management	
BUS ADM 384	Introduction to Supply Chain Management	
BUS ADM 452	Business Analytics	
BUS ADM 472	Leadership Development	
BUS ADM 481	Entrepreneurship and Small Business Management	
BUS ADM 489	Organizational Culture & Change	
BUS ADM 499	Travel Course	
Choose one of the following Marketing courses:		
BUS ADM 327	Selling and Sales Management	
BUS ADM 384	Introduction to Supply Chain Management	
BUS ADM 421	International Marketing	
BUS ADM 423	Advertising	
BUS ADM 424	Marketing Research	
BUS ADM 426	Marketing Management	
BUS ADM 428	Consumer Behavior	
BUS ADM 452	Business Analytics	
Total Credits		59-62

[1] Satisfied for students with an ACT English score of 32 or higher

General Business Emphasis

BUSINESS ADMINISTRATION Major

Code	Title	Credits
Supporting Courses		13-16
BUS ADM 202	Business and Its Environment	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	

ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
or ENG COMP 200	Professional Writing for Business Majors	
BUS ADM 216	Business Statistics	
or MATH 260	Introductory Statistics	
Upper-Level Courses		25
ACCTG 300	Principles of Financial Accounting	
ACCTG 302	Principles of Managerial Accounting	
BUS ADM 305	Legal Environment of Business	
BUS ADM 322	Introductory Marketing	
BUS ADM 343	Corporation Finance	
BUS ADM 350	Business Computer Applications	
BUS ADM 389	Organizational Behavior	
BUS ADM 482	Strategic Management	
General Business Emphasis Required Courses: Choose seven of the following courses		21
BUS ADM 347	Financial Markets and Institutions	
BUS ADM 362	Introduction to Human Resource Management	
BUS ADM 384	Introduction to Supply Chain Management	
BUS ADM 423	Advertising	
BUS ADM 428	Consumer Behavior	
BUS ADM 442	Principles of Investment	
BUS ADM 452	Business Analytics	
BUS ADM 481	Entrepreneurship and Small Business Management	
Total Credits		59-62

[1] Satisfied for students with an ACT English score of 32 or higher

Human Resource Management Emphasis

BUSINESS ADMINISTRATION Major

Code	Title	Credits
Supporting Courses		13-16
BUS ADM 202	Business and Its Environment	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
or ENG COMP 200	Professional Writing for Business Majors	
BUS ADM 216	Business Statistics	
or MATH 260	Introductory Statistics	
Upper-Level Courses		25
ACCTG 300	Principles of Financial Accounting	
ACCTG 302	Principles of Managerial Accounting	
BUS ADM 305	Legal Environment of Business	
BUS ADM 322	Introductory Marketing	
BUS ADM 343	Corporation Finance	
BUS ADM 350	Business Computer Applications	
BUS ADM 389	Organizational Behavior	
BUS ADM 482	Strategic Management	
Human Resource Management Emphasis Required Courses		21
BUS ADM 362	Introduction to Human Resource Management	
BUS ADM 466	Legal Issues in Human Resource Management	
Choose two of the following Human Resource Management courses:		
BUS ADM 460	Employee Development	

BUS ADM 465	Recruitment and Selection
BUS ADM 467	Compensation and Benefits Planning
Choose one of the following Management courses:	
BUS ADM 380	Project Management
BUS ADM 384	Introduction to Supply Chain Management
BUS ADM 452	Business Analytics
BUS ADM 472	Leadership Development
BUS ADM 481	Entrepreneurship and Small Business Management
BUS ADM 489	Organizational Culture & Change
BUS ADM 499	Travel Course
Choose one of the following Finance courses:	
BUS ADM 344	Real Estate Principles
BUS ADM 345	Risk Management and Insurance
BUS ADM 347	Financial Markets and Institutions
BUS ADM 442	Principles of Investment
BUS ADM 445	International Financial Management
BUS ADM 446	Advanced Corporation Finance
BUS ADM 447	Derivatives
BUS ADM 450	Bank Administration
Choose one of the following Marketing courses:	
BUS ADM 327	Selling and Sales Management
BUS ADM 384	Introduction to Supply Chain Management
BUS ADM 421	International Marketing
BUS ADM 423	Advertising
BUS ADM 424	Marketing Research
BUS ADM 426	Marketing Management
BUS ADM 428	Consumer Behavior
BUS ADM 452	Business Analytics
Total Credits	59-62

[1] Satisfied for students with an ACT English score of 32 or higher

Management Emphasis

BUSINESS ADMINISTRATION Major

Code	Title	Credits
Supporting Courses		13-16
BUS ADM 202	Business and Its Environment	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
or ENG COMP 200	Professional Writing for Business Majors	
BUS ADM 216	Business Statistics	
or MATH 260	Introductory Statistics	
Upper-Level Courses		25
ACCTG 300	Principles of Financial Accounting	
ACCTG 302	Principles of Managerial Accounting	
BUS ADM 305	Legal Environment of Business	
BUS ADM 322	Introductory Marketing	
BUS ADM 343	Corporation Finance	
BUS ADM 350	Business Computer Applications	
BUS ADM 389	Organizational Behavior	

BUS ADM 482	Strategic Management	
Management Emphasis Required Courses		21
BUS ADM 362	Introduction to Human Resource Management	
BUS ADM 472	Leadership Development	
BUS ADM 489	Organizational Culture & Change	
Choose two of the following Management courses:		
BUS ADM 334	Logistics Management	
BUS ADM 380	Project Management	
BUS ADM 381	Operations Management	
BUS ADM 383	Enterprise Resource Planning	
BUS ADM 384	Introduction to Supply Chain Management	
BUS ADM 452	Business Analytics	
BUS ADM 481	Entrepreneurship and Small Business Management	
BUS ADM 499	Travel Course	
Choose one of the following Finance courses:		
BUS ADM 344	Real Estate Principles	
BUS ADM 345	Risk Management and Insurance	
BUS ADM 347	Financial Markets and Institutions	
BUS ADM 442	Principles of Investment	
BUS ADM 445	International Financial Management	
BUS ADM 446	Advanced Corporation Finance	
BUS ADM 447	Derivatives	
BUS ADM 450	Bank Administration	
Choose one of the following Marketing courses:		
BUS ADM 327	Selling and Sales Management	
BUS ADM 384	Introduction to Supply Chain Management	
BUS ADM 421	International Marketing	
BUS ADM 423	Advertising	
BUS ADM 424	Marketing Research	
BUS ADM 426	Marketing Management	
BUS ADM 428	Consumer Behavior	
BUS ADM 452	Business Analytics	
Total Credits		59-62

[1] Satisfied for students with an ACT English score of 32 or higher

Marketing Emphasis

BUSINESS ADMINISTRATION Major

Code	Title	Credits
Supporting Courses		13-16
BUS ADM 202	Business and Its Environment	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
or ENG COMP 200	Professional Writing for Business Majors	
BUS ADM 216	Business Statistics	
or MATH 260	Introductory Statistics	
Upper-Level Courses		25
ACCTG 300	Principles of Financial Accounting	
ACCTG 302	Principles of Managerial Accounting	
BUS ADM 305	Legal Environment of Business	

BUS ADM 322	Introductory Marketing	
BUS ADM 343	Corporation Finance	
BUS ADM 350	Business Computer Applications	
BUS ADM 389	Organizational Behavior	
BUS ADM 482	Strategic Management	
Marketing Emphasis Required Courses		21
BUS ADM 421	International Marketing	
BUS ADM 424	Marketing Research	
BUS ADM 428	Consumer Behavior	
Choose two of the following Marketing courses:		
BUS ADM 327	Selling and Sales Management	
BUS ADM 423	Advertising	
BUS ADM 426	Marketing Management	
BUS ADM 452	Business Analytics	
BUS ADM 499	Travel Course	
Choose one of the following Finance courses:		
BUS ADM 344	Real Estate Principles	
BUS ADM 345	Risk Management and Insurance	
BUS ADM 347	Financial Markets and Institutions	
BUS ADM 442	Principles of Investment	
BUS ADM 445	International Financial Management	
BUS ADM 446	Advanced Corporation Finance	
BUS ADM 447	Derivatives	
BUS ADM 450	Bank Administration	
Choose one of the following Management courses:		
BUS ADM 362	Introduction to Human Resource Management	
BUS ADM 380	Project Management	
BUS ADM 384	Introduction to Supply Chain Management	
BUS ADM 452	Business Analytics	
BUS ADM 472	Leadership Development	
BUS ADM 481	Entrepreneurship and Small Business Management	
BUS ADM 489	Organizational Culture & Change	
Total Credits		59-62

[1] Satisfied for students with an ACT English score of 32 or higher

Business Administration Minors

- Business Administration Minor (p. 78)
- I (p. 79)nternational Business Minor (p. 79)

Business Administration Minor

Code	Title	Credits
Supporting Courses		16
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
BUS ADM 202	Business and Its Environment [1]	
or BUS ADM 282	Personal Financial Planning	
BUS ADM 305	Legal Environment of Business [2]	
or BUS ADM 206	Law and the Individual	
Choose one of the following courses:		
BUS ADM 216	Business Statistics	

COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
Upper-Level Courses		13
ACCTG 300	Principles of Financial Accounting	
BUS ADM 322	Introductory Marketing	
BUS ADM 343	Corporation Finance	
BUS ADM 389	Organizational Behavior	
Total Credits		29

[1] Upon degree completion, requirement of BUS ADM 202 or BUS ADM 282 is waived for students obtaining an Accounting major.

[2] BUS ADM 206 is valid for the Business Administration minor only. It cannot be applied to a Business Administration major.

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
Supporting Courses		6
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
Upper-Level Courses		13
ACCTG 300	Principles of Financial Accounting	
BUS ADM 322	Introductory Marketing	
BUS ADM 343	Corporation Finance	
BUS ADM 389	Organizational Behavior	
International Courses		6
Choose one of the following courses:		
BUS ADM 421	International Marketing	
BUS ADM 445	International Financial Management	
ECON 403	International Economics	
Choose one of the following courses:		
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. 85)
- American Chemical Society Certified in Chemistry (p. 83)
- American Chemical Society Certified in Environmental Chemistry (p. 84)
- Chemistry Minor (p. 85)

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. 82)
  - ACS Certified Major (p. 81)
  - ACS Certified Major in Environmental Chemistry (p. 81)

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., Punjabi University (India)

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

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

Breeyawn 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. 82)
  - ACS Certified Major (p. 81)
  - ACS Certified Major in Environmental Chemistry (p. 81)

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.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
CHEM 211	4	CHEM 207		1
CHEM 213	1	CHEM 212		4
MATH 202	4	CHEM 214		1
First Year Seminar	3	MATH 203		4
General Ed	3	General Ed		3
		General Ed		3
	15			16

				Sophomore
Fall	**Credits**	**Spring**		**Credits**
CHEM 302	3	CHEM 303		3
CHEM 304	1	CHEM 305		1
MATH 209	4	CHEM 311		4
PHYSICS 201	5	PHYSICS 202		5
General Ed	3	General Ed		3
	16			16

				Junior
Fall	**Credits**	**Spring**		**Credits**
CHEM 320	3	CHEM 321		3
CHEM 322	1	CHEM 323		1
CHEM 330	3	General Ed		3
CHEM 331	1	General Ed		3
General Ed	3	Elective		3
General Ed	3	Elective		3
	14			16

				Senior
Fall	**Credits**	**Spring**		**Credits**
CHEM 413	4	CHEM 410		3
CHEM 495	1-5	CHEM 411		1
General Ed	3	Elective		3
Elective	3	Elective		3
Elective	3	Elective		3
	14-18			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.

				Freshman
Fall	**Credits**	**Spring**	**Credits**	
BIOLOGY 201	3	BIOLOGY 302	4	
BIOLOGY 202	1	CHEM 207	1	
CHEM 211	4	CHEM 212	4	
CHEM 213	1	CHEM 214	1	
GEOSCI 202	4	ENV SCI 102	3	
MATH 202	4	MATH 203	4	
	17		17	
				Sophomore
Fall	**Credits**	**Spring**	**Credits**	
CHEM 302	3	CHEM 303	3	
CHEM 304	1	CHEM 305	1	
MATH 260	4	CHEM 311	4	
PHYSICS 201	5	PHYSICS 202	5	
General Ed	3	General Ed	3	
	16		16	
				Junior
Fall	**Credits**	**Spring**	**Credits**	
CHEM 320	3	CHEM 321	3	
CHEM 322	1	CHEM 323	1	
CHEM 330	3	ENV SCI 305	4	
CHEM 331	1	General Ed	3	
General Ed	3	General Ed	3	
Elective	3	Elective	3	
	14		17	
				Senior
Fall	**Credits**	**Spring**	**Credits**	
CHEM 413	4	CHEM 410	3	
CHEM 495	1-5	CHEM 411	1	
General Ed	3	General Ed	3	
General Ed	3	General Ed	3	
General Ed	3			
	14-18		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.

				Freshman
Fall	**Credits**	**Spring**	**Credits**	
CHEM 211	4	CHEM 207	1	
CHEM 213	1	CHEM 212	4	
MATH 202	4	CHEM 214	1	
First Year Seminar	3	MATH 203	4	
General Ed	3	General Ed	3	
		General Ed	3	
	15		16	
				Sophomore
Fall	**Credits**	**Spring**	**Credits**	
CHEM 302	3	CHEM 303	3	
CHEM 304	1	CHEM 305	1	
PHYSICS 201	5	CHEM 311	4	
General Ed	3	PHYSICS 202	5	

Elective	3	General Ed	3
	15		16

			Junior
Fall	Credits	Spring	Credits
CHEM 320	3	CHEM 321	3
CHEM 322	1	CHEM 323	1
General Ed	3	General Ed	3
General Ed	3	General Ed	3
Elective	3	Elective	3
Elective	3		
	16		13

			Senior
Fall	Credits	Spring	Credits
CHEM 413	4	Chemistry Upper Level Elective Lecture	3
General Ed	3	Chemistry Upper Level Elective Lab	1
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	16		13

Total Credits: 120

Chemistry Major

Area of Emphasis

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

- Chemistry Emphasis (p. 85)
- American Chemical Society Certified in Chemistry Emphasis (p. 83)
- American Chemical Society Certified in Environmental Chemistry Emphasis (p. 84)

American Chemical Society Certified in Chemistry Emphasis

CHEMISTRY Major

Code	Title	Credits
Supporting Courses		33
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	
MATH 209	Multivariate Calculus	
PHYSICS 201	Principles of Physics I	
PHYSICS 202	Principles of Physics II	
Upper-Level Courses		35
Core Courses		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 311	Analytical Chemistry	
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory	
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	

CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory
CHEM 413	Instrumental Analysis
CHEM 495	Research in Chemistry (3 credits of Research is required)
Total Credits	68

American Chemical Society Certified in Environmental Chemistry Emphasis

CHEMISTRY Major

Code	Title	Credits
Supporting Courses		48
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 302	Principles of Microbiology	
CHEM 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	
Upper-Level Courses		39
Core Courses		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 311	Analytical Chemistry	
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory	
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory	
CHEM 413	Instrumental Analysis	
CHEM 495	Research in Chemistry (3 credits of Research is required)	
ENV SCI 305	Environmental Systems	
Total Credits		87

General Emphasis

CHEMISTRY Major

Code	Title	Credits
Supporting Courses		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	
Upper-Level Courses		28
Core Courses		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 311	Analytical Chemistry	
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory	
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	
CHEM 413	Instrumental Analysis	
Electives (choose 4 credits):		
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
Supporting Courses		11
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	
Upper-Level Courses		12
CHEM 311	Analytical Chemistry	
Complete one of the following course groups:		

CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
Choose 4 credits from the following elective courses:	
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 [1]
CHEM 417	Nuclear Physics and Radiochemistry [1]
CHEM 420 & CHEM 423	Polymer Chemistry and Polymer Chemistry Laboratory
Total Credits	23

[1] 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 s**ocial 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. 88)
- Journalism (p. 89)
- Mass Media (p. 89)
- Organizational Communication (p. 90)
- Public Relations (p. 90)
- Social Media Communication (http://catalog.uwgb.edu/undergraduate/programs/communication/major/social-media)
- Sports Communication (http://catalog.uwgb.edu/undergraduate/programs/communication/major/sport)
- Communication Minor (p. 91)

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. 87)

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
COMM 102	3	COMM 133	3
First Year Seminar	3	COMM 166 or 237	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
Elective	3	Elective	3
	15		15

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
COMM 205	3	COMM 185	3
COMM 290	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	Elective	3

Elective	3	Elective	
	15		12
			Junior
Fall	**Credits**	**Spring**	**Credits**
COMM 302	3	COMM 306	3
COMM 335	3	COMM 308	3
General Ed	3	COMM 380	3
Elective	3	General Ed	3
Elective	3	Elective	3
		Upper Level Comm Course	3
	15		18
			Senior
Fall	**Credits**	**Spring**	**Credits**
COMM 307	3	COMM 430	3
COMM 309	3	COMM 477	3
COMM 497 (Or Upper Level Comm Course)	3	General Ed	3
General Ed	3	Elective	3
Elective	3	Elective	3
	15		15

Total Credits: 120

Communication Major

Area of Emphasis

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

- Health Communication (p. 88)
- Journalism (p. 89)
- Mass Media (p. 89)
- Organizational Communication (p. 90)
- Public Relations (p. 90)
- Social Media Communication (http://catalog.uwgb.edu/undergraduate/programs/communication/major/social-media)
- Sports Communication (http://catalog.uwgb.edu/undergraduate/programs/communication/major/sport)

Health Communication Emphasis

COMMUNICATION Major

Code	Title	Credits
Core Courses:		18
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
or COMM 237	Small Group Communication	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
Upper Level Courses:		30
COMM/INFO SCI 308	Information Technologies	
COMM 335	Organizational Communication	
COMM 370	Health Communication Campaigns and Strategies	
COMM 380	Communication Law	
COMM 381	Principles of Public Relations/Corporate Communications	
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 one upper level elective course in Communication	
Total Credits	48

Should read: "Choose 3 credits of upper-level Communication electives"

Journalism Emphasis

COMMUNICATION Major

Code	Title	Credits
Supporting Courses [1]		18
Core Courses		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMM 166	Fundamentals of Interpersonal Communication	
or COMM 237	Small Group Communication	
Upper-Level Courses [1]		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	
Choose three upper-level elective courses in Communication [2]		
Total Credits		48

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

2 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
Supporting Courses [1]		18
Core Courses		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMM 166	Fundamentals of Interpersonal Communication	
or COMM 237	Small Group Communication	
Upper-Level Courses [1]		30
COMM 302	News Reporting and Writing	
COMM 306	Radio Broadcasting	
COMM 307	Television Production Techniques	

COMM/INFO SCI 308	Information Technologies	
COMM 309	Mass Media Advertising	
COMM 380	Communication Law	
COMM/INFO SCI 430	Information, Media and Society	
COMM 477	Social Media Strategies	
Choose upper-level Communication elective courses (totaling 6 credits) [2]		
Total Credits		48

[1] Note: 5 of the 6 supporting courses must be completed before taking any upper-level courses.

[2] 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
Supporting Courses [1]		18
Core Courses		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMM 166	Fundamentals of Interpersonal Communication	
or COMM 237	Small Group Communication	
Upper-Level Courses [1]		30
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 381	Principles of Public Relations/Corporate Communications	
COMM 477	Social Media Strategies	
COMM 480	Cases in Communications and Media Management	
Choose two upper-level elective courses in Communication [2]		
Total Credits		48

[1] Note: 5 of the 6 supporting courses must be completed before taking any upper-level courses.

[2] 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
Supporting Courses [1]		18
Core Courses		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	

COMM 166	Fundamentals of Interpersonal Communication	
or COMM 237	Small Group Communication	
Upper-Level Courses [1]		30
COMM 302	News Reporting and Writing	
COMM 335	Organizational Communication	
COMM 380	Communication Law	
COMM 381	Principles of Public Relations/Corporate Communications	
COMM 382	Public Relations Writing	
COMM 474	Media Workshop I	
COMM 477	Social Media Strategies	
COMM 480	Cases in Communications and Media Management	
Choose 2 upper-level elective courses in Communication [2]		
Total Credits		48

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

2 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
Supporting Courses [1]		18
Core courses		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMM 166	Fundamentals of Interpersonal Communication	
or COMM 237	Small Group Communication	
Upper-Level Courses [1]		15
Choose five upper-level elective courses in Communication [2]		
Total Credits		33

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

2 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)

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

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

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

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

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

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

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

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

Area of Emphasis

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

- Information Assurance and Security Emphasis (http://catalog.uwgb.edu/undergraduate/programs/computer-science/interdisciplinary-major/ia)
- Software Engineering Emphasis (http://catalog.uwgb.edu/undergraduate/programs/computer-science/interdisciplinary-major/se)
- Computer Science Minor (p. 93)

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. 92)

Iftekhar Anam; Assistant Professor; Ph.D., University of Memphis

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

Benajamin Jay Geisler; Lecturer; M.S., University of Wisconsin-Madison

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
COMP SCI 201	4	COMM 166	3
COMP SCI 221	3	COMM 237	3
First Year Seminar	3	COMP SCI 240	4
General Ed	3	General Ed	3

Elective	3		
	16		13
			Sophomore
Fall	**Credits**	**Spring**	**Credits**
COMM 133	3	COMP SCI 316	4
COMP SCI 256	4	MATH 260	4
COMP SCI 292	3	General Ed	3
General Ed	3	General Ed	3
	13		14
			Junior
Fall	**Credits**	**Spring**	**Credits**
COMP SCI 353	3	COMP SCI 351	4
INFO SCI 308	3	COMP SCI 372	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
Elective	3	General Ed	3
	15		16
			Senior
Fall	**Credits**	**Spring**	**Credits**
COMP SCI Upper Level elective	3	COMP SCI Upper Level	3
COMP SCI Upper Level elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3		
	18		15

Total Credits: 120

Computer Science Major

Area of Emphasis

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

- Information Assurance and Security Emphasis (http://catalog.uwgb.edu/undergraduate/programs/computer-science/interdisciplinary-major/ia)
- Software Engineering Emphasis (http://catalog.uwgb.edu/undergraduate/programs/computer-science/interdisciplinary-major/se)

Computer Science Minor

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

Democracy and Justice Studies

(Bachelor of Arts or Bachelor of Science)

Democracy and Justice Studies explores diverse ideals and practices of democracy and justice in the United States and the world though 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. 95)
- Criminal Justice (http://catalog.uwgb.edu/undergraduate/programs/democracy-justice-studies/major/criminal_justice_emphasis)
- Legal Studies (http://catalog.uwgb.edu/undergraduate/programs/democracy-justice-studies/major/legal_studies_emphasis)
- U.S. and the World (p. 96)
- Women's and Gender Studies (p. 98)
- Democracy and Justice Studies Minor (p. 99)

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

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

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

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

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

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

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

Democracy and Justice Studies Major

Area of Emphasis

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

- American Studies (p. 95)
- Criminal Justice (http://catalog.uwgb.edu/undergraduate/programs/democracy-justice-studies/major/criminal_justice_emphasis)
- Legal Studies (http://catalog.uwgb.edu/undergraduate/programs/democracy-justice-studies/major/legal_studies_emphasis)
- U.S. and the World (p. 96)
- Women's and Gender Studies (p. 98)

American Studies Emphasis

DEMOCRACY AND JUSTICE STUDIES Major

Code	Title	Credits
Supporting Courses		24-26
DJS 101	Introduction to Democracy and Justice Studies	
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
Choose two of the following courses:		
ANTHRO 100	Varieties of World Culture	
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 202	Introduction to Sociology	
Choose one of the following Skill Subjects (6 credits minimum): [2]		
Subject A - Social Research (7 credits)		
COMM SCI 205	Social Science Statistics	
or MATH 260	Introductory Statistics	
COMM SCI 301	Foundations for Social Research	
Subject B - Foreign Language (two semesters) [3]		
Subject C - Communication (6 credits)		
COMM 133	Fundamentals of Public Address	
COMM 290	Communication Problems and Research Methods	
Subject D - Historical Research (6 credits)		
HUM STUD 200	Introduction to Digital and Public Humanities	
HISTORY 290	The Craft of History	
Upper-Level Courses		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	

Elective Courses (choose 6 credits):	
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/ECON 371	Gender and Economic Justice
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

1 Satisfied for students with an ACT English score of 32 or higher

2 This skills requirement may be fulfilled with 6 credits of alternative courses selected in consultation with your faculty adviser.

3 Please review with your faculty adviser about language requirement. Courses in French, German, Oneida, and Spanish are available at UW-Green Bay.

U.S. and the World Emphasis

DEMOCRACY AND JUSTICE STUDIES Major

Code	Title	Credits
Supporting Courses		24-26
DJS 101	Introduction to Democracy and Justice Studies	
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
POL SCI 100	Global Politics and Society	
POL SCI 101	American Government and Politics	
Choose two of the following courses:		
ANTHRO 100	Varieties of World Culture	
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 202	Introduction to Sociology	
Choose one of the following Skill Subjects (6 credits minimum): [2]		
Subject A - Social Research (7 credits):		
COMM SCI 205	Social Science Statistics	
or MATH 260	Introductory Statistics	
COMM SCI 301	Foundations for Social Research	
Subject B - Foreign Language (two semesters): [3]		
Subject C - Communication (6 credits)		
COMM 133	Fundamentals of Public Address	
COMM 290	Communication Problems and Research Methods	
Subject D - Historical Research (6 credits)		
HUM STUD 200	Introduction to Digital and Public Humanities	
HISTORY 290	The Craft of History	
Upper-Level Courses		24
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	
Elective Courses (choose 6 credits):		
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/ECON 371	Gender and Economic Justice	
DJS/WOST 437	Feminist Theory	
DJS 461	Social and Political Criticism	
DJS 497	Internship	
DJS 498	Independent Study	
DJS 499	Travel Course	
HISTORY 354	History of Modern East Asia	
HISTORY 356	History of Modern Africa	
HISTORY 358	Political History of Modern Latin America	
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	
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.

Women's and Gender Studies Emphasis

DEMOCRACY AND JUSTICE STUDIES Major

Code	Title	Credits
Supporting Courses		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 [1]	
Choose one of the following options:		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
POL SCI 101	American Government and Politics	
Choose two of the following courses:		
Student can choose HISTORY 205 or 206 or POL SCI 101 in this category if not used for requirement above		
ANTHRO 100	Varieties of World Culture	
DJS 204	Freedom and Social Control	
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 202	Introduction to Sociology	
Choose one of the following Skill Subjects (6 credits minimum): [2]		
Subject A - Social Research (7 credits)		
COMM SCI 205	Social Science Statistics	
or MATH 260	Introductory Statistics	
COMM SCI 301	Foundations for Social Research	
Subject B - Foreign Language (two semesters) [3]		
Subject C - Communication (6 credits)		
COMM 133	Fundamentals of Public Address	
COMM 290	Communication Problems and Research Methods	
Subject D - Historical Research (6 credits)		
HUM STUD 200	Introduction to Digital and Public Humanities	
HISTORY 290	The Craft of History	
Upper-Level Courses		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	
Elective Courses (choose 6 credits):		
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 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 354	History of Modern East Asia
HISTORY 356	History of Modern Africa
HISTORY 358	Political History of Modern Latin America
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
Supporting Courses		6
DJS 101	Introduction to Democracy and Justice Studies	
Choose one of the following courses:		
ANTHRO 100	Varieties of World Culture	
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 202	Introduction to Sociology	
Upper-Level Courses		12
DJS 349	American Political Thought	
DJS 361	Historical Perspectives on American Democracy	
DJS 363	Topics in Democracy and Justice	
DJS 470	Senior Seminar in Democracy and Justice Studies	
Total Credits		18

Design Arts

(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. 101)
- Design Arts Minor (p. 102)

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. 100)

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
ART 105	3	ART 106	3
ART 107	3	ART 210, 243, or 270	3
ENG COMP 105	3	DESIGN 131	3
First Year Seminar	3	HUM STUD 160	3
General Ed	3	General Ed	3
	15		15

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
DESIGN 3XX/4XX Core I	3	DESIGN 3XX/4XX Core II	3
History/Theory (requirement)	3	Design Arts Upper Level Elective	3
General Ed	3	Design Arts Upper Level Elective	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	15		15

Junior			
Fall	**Credits**	**Spring**	**Credits**
DESIGN 3XX/4XX Core III	3	Design Arts Upper Level Elective (requirement)	3
History/Theory Requirement	3	History/Theory Requirement	3
Design Arts Upper Level Elective (requirement)	3	General Ed	3
General Ed	3	Elective	3
General Ed	3	Elective	3
	15		15

Senior			
Fall	**Credits**	**Spring**	**Credits**
Design Arts Applied Course	3	Design Arts/Applied Elective	3
Design Arts/Applied Elective	3	Design Arts/Applied Elective	3
Design Arts/Applied Elective	3	Design Arts/Applied Elective	3
Design Arts/Applied Elective	3	Elective	3
Elective	3	Elective	3
	15		15

Total Credits: 120

Design Arts Major

Code	Title	Credits
Supporting Courses:		21
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	
History and Theory (choose 9 credits)		9
Art History		
ART 202	Modern Art	
ART 376	Modern American Culture	
ART 380	History of Photography	
Theory		
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	
UL Design Studio (choose 15 credits)		15
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	
Electives (choose 6 credits)		6
any 300-level Art or Design course		
any 400-level Art or Design course		
DESIGN 497	Internship	

ENGLISH 324	Sheepshead Review Practicum	
Total Credits		51

Design Arts Minor

Code	Title	Credits
Supporting Courses		9
ART 107	Two-Dimensional Design	
DESIGN 131	Introduction to Design and Culture	
DESIGN 231	Graphic Design Studio I	
Upper Level Courses		15
Choose 15 credits		
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. 103)
- Economics Minor (p. 104)

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. 103)

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

Thomas S Nesslein; 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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
ECON 202	3	ECON 203	3
First Year Seminar	3	MATH 202	4
General Ed	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	15		16

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
BUS ADM 216, COMM SCI 205, or MATH 260	4	ECON 303	3
ECON 302	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
Elective	3	Elective	3
	16		15

			Junior
Fall	**Credits**	**Spring**	**Credits**
ECON 307	3	ECON 310	3
ECON/BUS ADM 3XX/4XX Elective	3	ECON/BUS ADM 3XX/4XX Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15

			Senior
Fall	**Credits**	**Spring**	**Credits**
ECON/BUS ADM 3XX/4XX Elective	3	ECON/BUS ADM 3XX/4XX Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15

Total Credits: 122

Economics Major

Code	Title	Credits
Supporting Courses		14
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
Choose one of the following courses:		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
Choose one of the following courses:		
ECON 210	Quantitative Methods for Economists	
MATH 202	Calculus and Analytic Geometry I	
Upper-Level Courses		28
ECON 302	Intermediate Macro Economic Theory	

ECON 303	Intermediate Micro Economic Theory
ECON 307	History of Economic Thought
ECON 310	Introduction to Econometrics
ECON 403	International Economics
ECON 485	Managerial Economics
Choose three elective courses	
BUS ADM 347	Financial Markets and Institutions
BUS ADM 442	Principles of Investment
BUS ADM 445	International Financial Management
BUS ADM 446	Advanced Corporation Finance
BUS ADM 447	Derivatives
BUS ADM 450	Bank Administration
ECON 304	Contemporary Labor Markets
ECON 305	Natural Resources Economic Policy
ECON 309	Urban and Regional Economics
ECON 330	Money and Banking
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
Total Credits	42

Economics Minor

Code	Title	Credits
Supporting Courses		9-10
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
Choose one of the following courses:		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
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) [1]		
Total Credits		21-22

[1] 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 Integrated Program Track

Following full admission to the education program, undergraduate students may apply to participate in an Undergraduate-Graduate Integrated 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
- Cumulative GPA of 3.5
- 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/.

- Education Major (p. 107)
- Education Minor (p. 108)

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

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

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*

De Fulton Cortes; Assistant Professor; Doctorate, Centro de Investigación y Docencia en Humanidades del Estado de Morelos (CIDHEM)

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

Code	Title	Credits
Supporting Courses		22
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	
Upper-Level Courses		27
EDUC 302	Teaching Social Studies in Elementary and Middle Schools	
EDUC 307	Teaching Reading in the Elementary and Middle Schools	
EDUC 309	Teaching Language Arts in the Elementary and Middle Schools	
EDUC 324	Teaching Mathematics in the Elementary and Middle Schools	
EDUC 325	Teaching Science in the Elementary and Middle Schools	
EDUC 326	Music, Movement and Core Arts Pedagogy	
EDUC 340	Supporting Learning and Behavior in the Classroom	
EDUC 361	Introduction to the Art and Science of Teaching	
EDUC 421/621	Literacy and Language Development in Young Children [1]	
Total Credits		49

[1] 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
Supporting Courses		17
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	
MATH 101	Advanced Algebra [1]	
Upper-Level Courses		15
EDUC 340	Supporting Learning and Behavior in the Classroom	
EDUC 361	Introduction to the Art and Science of Teaching	
EDUC 422/622	Reading in the Content Areas [3]	
EDUC 452/652	Principles of Middle Level Education [2,3]	
or EDUC 334	Teaching General Music in the Elementary and Middle Schools	
Choose one of the following courses as appropriate:		
EDUC 310	Teaching Communication Arts in the Middle and Secondary Schools	
EDUC 311	Teaching Foreign Languages (Course may be part of major requirement in French, German, and Spanish)	
EDUC 312	Teaching Social Studies in the Middle and Secondary Schools	
EDUC 313	Teaching Mathematics in Middle and Secondary Schools	
EDUC 314	Teaching Science in Middle and Secondary Schools	
EDUC 315	Teaching English as a Second Language	
EDUC 316	Teaching Art in the Middle and Secondary Schools	
EDUC 317	Teaching Music in the Middle and Secondary Schools	
Total Credits		32

[1] This requirement can be waived with a Wisconsin Mathematics Placement Test score of MATH 104 or greater.

[2] Music majors with an Education minor will choose EDUC 334

[3] 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).

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

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. 109)
- Environmental Engineering Technology (p. 113)
- Mechanical Engineering Technology (p. 114)

- Electrical Engineering Technology (p. 110)
- Environmental Engineering Technology (p. 111)
- Mechanical Engineering Technology (p. 112)

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

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

Electrical Engineering Technology Major

Code	Title	Credits
Supporting Courses		20
ET 101	Fundamentals of Engineering Technology	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	

PHYSICS 103	Fundamentals of Physics I (Algebra or calculus based equivalent)	
or PHYSICS 201	Principles of Physics I	
PHYSICS 104	Fundamentals of Physics II (Algebra or calculus based equivalent)	
or PHYSICS 202	Principles of Physics II	
Fundamentals Group Courses		29
ET 105	Fundamentals of Drawing	
ET 130	Basic Electrical Circuits I	
ET 131	Basic Electrical Circuits II	
ET 142	Introduction to Programming	
ET 150	Codes, Safety, and Standards	
ET 232	Semiconductor Devices	
ET 233	Linear Circuits	
ET 240	Micro-controllers and Programmable Logic Controllers	
ET 250	Signals and Systems	
Advanced Study Group Courses:		31
ET 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	
Choose one of these:		
ET 400	Co-op/Internship in Engineering Technology	
or ET 410	Capstone Project	
Total Credits		80

Engineering Technology Curriculum Guides

- Electrical Engineering Technology (p. 110)
- Environmental Engineering Technology (p. 111)
- Mechanical Engineering Technology (p. 112)

Curriculum Guide: Electrical Engineering Technology

				Freshman
Fall	**Credits**		**Spring**	**Credits**
ET 101	2		ET 131	3
ET 105	3		ET 150	2
ET 130	3		MATH 203	4
MATH 202	4		General Ed	3
First Year Seminar	3		General Ed	3
	15			15
				Sophomore
Fall	**Credits**		**Spring**	**Credits**
ET 142	3		ET 233	3
ET 232	3		ET 240	3
PHYSICS 103 or 201	5		ET 311	3
General Ed	3		PHYSICS 104 or 202	5
	14			14
				Junior
Fall	**Credits**		**Spring**	**Credits**
ET 250	3		ET 324	3

ET 340	3	ET 344	3
ET 342	3	ET 346	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	15		15

Senior			
Fall	Credits	Spring	Credits
ET 360	3	ET 348	3
ET 390	4	ET 350	3
Elective	3	ET 400 or 410	3
Elective	3	Elective	4
Elective	3	General Ed	3
	16		16

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: Environmental Engineering Technology

Freshman			
Fall	Credits	Spring	Credits
ET 101	2	CHEM 212	4
BIOLOGY 201	3	CHEM 214	1
BIOLOGY 202	1	MATH 203	4
CHEM 207	1	First Year Seminar	3
CHEM 211	4	General Ed	3
CHEM 213	1		
MATH 202	4		
	16		15

Sophomore			
Fall	Credits	Spring	Credits
BIOLOGY 322	4	ET 201	3
ET 103	3	ET 203	3
ET 105	3	GEOSCI 202	4
PHYSICS 103 or 201	5	MATH 260	4
		General Ed	3
	15		17

Junior			
Fall	Credits	Spring	Credits
ET 118	3	ET 320	4
ET 330	3	General Ed	3
ET 391	3	General Ed	3
General Ed	3	UL Advanced Study ET elective	3
General Ed	3	UL Advanced Study ET elective	3
	15		16

Senior			
Fall	Credits	Spring	Credits
ET 360	3	ET 400 or 410	3
Elective	5	Elective	3
General Ed	3	UL Advanced Study ET elective	3

UL Advanced Study ET elective	3	UL Advanced Study ET elective	3
	14		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

Freshman

Fall	Credits	Spring	Credits
ET 101	2	ET 130	3
ET 105	3	ET 142	3
CHEM 211 & CHEM 213 (Natural Science)	5	CHEM 212 & CHEM 214	5
MATH 202 (Quantitative Literacy)	4	MATH 203	4
First Year Seminar	3	General Education requirement	3
	17		18

Sophomore

Fall	Credits	Spring	Credits
ENGR 213	3	ENGR 214	3
ET 116	3	ET 207	3
MATH 260	4	ET 220	3
PHYSICS 103 or 201	5	PHYSICS 104 or 202	5
		General Education requirement	3
	15		17

Junior

Fall	Credits	Spring	Credits
ET 118	3	ET 318	2
ET 221	3	ET 322	3
ET 308	3	ET 324	3
General Education requirement	3	General Education requirement	3
General Education requirement	3		
	15		11

Senior

Fall	Credits	Spring	Credits
CHEM 320	3	ET 400 or 410 (Capstone)	3
ET 360	3	ENGR 301	4
ET 390	4	Elective	3
Elective	1	General Education requirement	3
General Education requirement	3		
	14		13

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*

Environmental Engineering Technology Major

Code	Title	Credits
Supporting Courses		39
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
ET 101	Fundamentals of Engineering Technology	
ET 103	Surveying	
ET 105	Fundamentals of Drawing	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
PHYSICS 103	Fundamentals of Physics I (Algebra or Calculus based equivalent)	
or PHYSICS 201	Principles of Physics I	
Fundamentals Group Courses		28
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	
Advanced Study Group Courses		20
ET 360	Project Management	
Choose a minimum of one course from the following course list:		
ET 331/ENV SCI 335	Water and Waste Water Treatment	
ET/ENV SCI 334	Solid Waste Management	
Choose a minimum of one course from the following course list		
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	
PU EN AF 378	Environmental Law	
Final Project:		
ET 400	Co-op/Internship in Engineering Technology	
or ET 410	Capstone Project	

Mechanical Engineering Technology Major

Code	Title	Credits
Supporting Courses		37-42
CHEM 211	Principles of Chemistry I	
& CHEM 213	and Principles of Chemistry I Laboratory	
& CHEM 212	and Principles of Chemistry II	
& CHEM 214	and Principles of Chemistry II Laboratory	
or ET 206	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	Fundamentals of Physics I	
or PHYSICS 201	Principles of Physics I	
PHYSICS 104	Fundamentals of Physics II	
or PHYSICS 202	Principles of Physics II	
Fundamentals Group Courses		26
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	
Advanced Study Group Courses		28
CHEM 320	Thermodynamics and Kinetics	
ENGR 301	Engineering Materials	
ET 308	Finite Element Analysis	
ET 318	Fluids II	
ET 322	Design Problems	
ET 324	Motors and Drives	
ET 360	Project Management	
ET 390	Mechatronics	
Final Project:		
ET 400	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. 116)
- English Education (p. 117)
- Literature (p. 118)
- English Minor (p. 120)

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. 115)

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
ENG COMP 105	3	ENGLISH 219	3
HUM STUD 201	3	HUM STUD 101	3
First Year Seminar	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	Elective	3
	15		15

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
ENGLISH 214	3	ENGLISH 215	3
ENGLISH 290	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
Elective	3	Elective	3
	15		15

			Junior
Fall	**Credits**	**Spring**	**Credits**
ENGLISH 216 or 217	3	ENGLISH 331	3

ENGLISH 3XX elective	3	Perspectives Medieval course	3
Perspectives Classical course	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	Elective	3
	15		15

Fall	Credits	Spring	Senior Credits
ENGLISH 431	3	ENGLISH 340	3
ENGLISH 3XX elective	3	HUM STUD 480	3
ENGLISH 3XX elective	3	ENGLISH 3XX elective	3
HUM STUD 3XX elective	3	Elective	3
Elective	3	Elective	3
	15		15

Total Credits: 120

English Major

Area of Emphasis

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

- Creative Writing (p. 116)
- English Education (p. 117)
- Literature (p. 118)

Creative Writing Emphasis

ENGLISH Major

Code	Title	Credits
Supporting Courses		9-12
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 290	Literary Studies	
Choose 1 additional Lower-Level Literature Course:		
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	
Upper-Level Courses		24
Required:		
ENGLISH 301	Intermediate Creative Writing	
ENGLISH 324	Sheepshead Review Practicum	
Upper-Level Writing Workshops (choose 2 courses)		
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	
Upper-level Literature courses (choose 4 courses): [2]		
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

[1] Satisfied for students with ACT English score of 32 or higher.

[2] 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
Supporting Courses		21
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
or ENGLISH 212	Introduction to Creative Writing	
ENGLISH 214	Introduction to English Literature I	
ENGLISH 215	Introduction to English Literature II	
or ENGLISH 316	The English Novel: 1850's to the Present	
ENGLISH 216	Introduction to American Literature I	
ENGLISH 217	Introduction to American Literature II	
ENGLISH 290	Literary Studies	
HUM STUD 160	Introduction to Language	
Upper-Level Courses		24
EDUC 319/519	Adolescent Literature in Middle and Secondary School Reading [4]	
ENGLISH 336	American Ethnic Literature	
or ENGLISH 344	African American Literature	
ENGLISH 431	Shakespeare	
HUM STUD 321	Language and Society	
Choose a minimum of 3 credits of the following courses: [2]		
ENGLISH 218	World Literatures	
ENGLISH 219	World Literatures II	
ENGLISH 338	World Literatures	
Choose a minimum of 9 credits of upper-level Literature elective courses: [3]		
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 316	The English Novel: 1850's to the Present	
ENGLISH 320	Major Drama	
ENGLISH 322	Major Poetry	
ENGLISH 323	Topics in Literary Criticism	

ENGLISH 331	Major American Prose Fiction
ENGLISH 333	Literary Themes
ENGLISH 335	Literary Eras
ENGLISH 336	American Ethnic Literature
ENGLISH 338	World Literatures
ENGLISH 340	History of the English Language
ENGLISH 344	African American Literature
ENGLISH 436	Major Author(s)
Total Credits	45

1 Satisfied for students with ACT English score of 32 or higher.

2 If ENGLISH 218 or ENGLISH 219 is taken to fulfill an upper-level requirement, an additional 3 credits must be taken from the upper-level Literature elective course list above.

3 Some courses may vary by topic, so some of the above may be repeated for credit if the topic differs. See adviser for recommendations.

4 Students must be granted permission to enroll in Graduate level coursework. For more information, please contact the Education department or refer to the Graduate catalog at: at http://catalog.uwgb.edu/graduate/general-information/graduate-course-information/

Literature Emphasis

ENGLISH Major

Code	Title	Credits
Supporting Courses		12
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
ENGLISH 290	Literary Studies	
Choose a minimum of 6 credits from the following supporting-level English electives:		
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	
Upper-Level Courses		24
ENGLISH 431	Shakespeare	
Choose a minumum of 21 credits from the following upper-level English electives: [2]		
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 316	The English Novel: 1850's to the Present	
ENGLISH 320	Major Drama	
ENGLISH 322	Major Poetry	
ENGLISH 323	Topics in Literary Criticism	
ENGLISH 324	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

[1] Satisfied for students with ACT English score of 32 or higher.

[2] Because course content may vary, some of the above may be repeated for credit. See adviser.

The courses used to fulfill the required 6 credits of supporting-level English electives and the 21 credits of upper-level English electives must be distributed so that the five criteria below are satisfied.

Criterion 1

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

Criterion 2

Code	Title	Credits
Choose a minimum of 3 credits (either upper level or supporting level) from any primarily post-1800 British literature course, such as:		
ENGLISH 215	Introduction to English Literature II	
ENGLISH 316	The English Novel: 1850's to the Present	
ENGLISH 335	Literary Eras	
ENGLISH 436	Major Author(s)	

Criterion 3

Code	Title	Credits
Choose a minimum of 6 credits (either upper level or supporting level) from any American literature course, such as:		
ENGLISH 216	Introduction to American Literature I	
ENGLISH 217	Introduction to American Literature II	
ENGLISH 322	Major Poetry	
ENGLISH 331	Major American Prose Fiction	

Criterion 4

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

Criterion 5

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

English Minor

Code	Title	Credits
Supporting Courses		12
ENG COMP 105	English Composition II: Composition and Rhetoric [1]	
ENGLISH 214	Introduction to English Literature I	
ENGLISH 290	Literary Studies	
Choose one of the following:		
ENGLISH 104	Introduction to Literature	
ENGLISH 206	Women in Literature	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 215	Introduction to English Literature II	
ENGLISH 216	Introduction to American Literature I	
ENGLISH 217	Introduction to American Literature II	
Upper-Level Courses		12
ENGLISH 431	Shakespeare	
Choose 9 additional upper-level credits. See list in English major.		
Total Credits		24

[1] 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 **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 an 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 (http://catalog.uwgb.edu/undergraduate/programs/environmental-policy-planning/major/design-emphasis)
- Environmental Policy Emphasis (http://catalog.uwgb.edu/undergraduate/programs/environmental-policy-planning/major/env_pol-emphasis)
- Planning Emphasis (p. 123)

- Environmental Policy and Planning Minor (p. 123)

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. 122)

Earl R 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 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*

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.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
ENV SCI 102	3	PU EN AF 202		3
POL SCI 101	3	Science Lower Level Elective		3
First Year Seminar	3	General Ed		3
General Ed	3	General Ed		3
General Ed	3	General Ed		3
	15			15

				Sophomore
Fall	**Credits**	**Spring**		**Credits**
ECON 203	3	BUS ADM 216, COMM SCI 205, or MATH 260		4
Science Lower Level Elective	3	Science Lower Level Elective		3
Science Lower Level Elective	3	General Ed		3
General Ed	3	General Ed		3
General Ed	3	General Ed		3
	15			16

				Junior
Fall	**Credits**	**Spring**		**Credits**
PU EN AF 378	3	PU EN AF 301		3
PU EN AF 350 or AF 408	2-3	PU EN AF 322		3
Environmental Science Upper Level Elective	3	Environmental Science Upper Level Elective		3
Environmental Policy and Planning Upper Level Elective	3	Environmental Policy and Planning Upper Level Elective		3
General Ed	3	General Ed		3
	14-15			15

				Senior
Fall	**Credits**	**Spring**		**Credits**
PU EN AF 497 (or Applied Learning)	3	PU EN AF 497 (or Applied Learning)		3
Environmental Policy and Planning Upper Level Elective	3	Environmental Policy and Planning Upper Level Elective		3
Environmental Policy and Planning Upper Level Elective	3	Environmental Policy and Planning Upper Level Elective		3
General Ed	3	General Ed		3
General Ed	3	General Ed		3
	15			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:

- Environmental Design Emphasis (http://catalog.uwgb.edu/undergraduate/programs/environmental-policy-planning/major/design-emphasis)
- Environmental Policy Emphasis (http://catalog.uwgb.edu/undergraduate/programs/environmental-policy-planning/major/env_pol-emphasis)
- Planning Emphasis (p. 123)

Planning Emphasis

ENVIRONMENTAL POLICY AND PLANNING Major

Code	Title	Credits
Core Supporting Courses:		
Required		5
PU EN AF 102	Environment and Society	
PU EN AF 250	Introduction to Geographic Information Systems (GIS)	
Complete one Public Policy course		3
POL SCI 101	American Government and Politics	
PU EN AF 202	Introduction to Public Policy	
PU EN AF 220	Economics, Politics, and Government Action	
Complete one Research/Statistics course		3-4
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
COMM SCI 301	Foundations for Social Research	
MATH 260	Introductory Statistics	
Capstone Experience		3
PU EN AF 430	Seminar in Ethics and Public Action	
Total Credits		14-15

Code	Title	Credits
Required Courses, 23 credits		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 credits		9
Complete three of the following:		
ANTHRO 306	Environmental Anthropology	
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 494	Teaching Assistantship	
PU EN AF 495	Research Assistantship	
PU EN AF 498	Independent Study	
PU EN AF 497	Internship	
PU EN AF 499	Travel Course	
Total Credits		32

Environmental Policy and Planning Minor

Code	Title	Credits
Supporting Courses		14
Required:		
PU EN AF 102	Environment and Society	
PU EN AF 250	Introduction to Geographic Information Systems (GIS)	

Electives (choose three of the following courses):		
ECON 203	Micro Economic Analysis	
POL SCI 101	American Government and Politics	
PU EN AF 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
Upper-Level Courses		15
Required:		
PU EN AF 301	Environmental Politics and Policy	
PU EN AF 322	Environmental Planning	
Electives (choose 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 321	Coastal Resources Policy and Management	
PU EN AF 323	Sustainable Land Use	
PU EN AF 324	Transitioning to Sustainable Communities	
PU EN AF 350	GIS in Public and Environmental Policy	
PU EN AF 351	Water Resources Policy and Management	
PU EN AF 378	Environmental Law	
PU EN AF 379	Natural Resources Policy, Law, and Administration	
PU EN AF 408	Public Policy Analysis	
PU EN AF 497	Internship	
Total Credits		29

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/.

- Environmental Science Major (p. 128)
- Environmental Science Minor (http://catalog.uwgb.edu/undergraduate/programs/environmental-science/minor/env_sci)
- International Environmental Studies Minor (http://catalog.uwgb.edu/undergraduate/programs/environmental-science/minor/international)

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. 127)

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/

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
Required Courses		
CHEM 211	Principles of Chemistry I	4
CHEM 212	Principles of Chemistry II	4
CHEM 213	Principles of Chemistry I Laboratory	1
CHEM 214	Principles of Chemistry II Laboratory	1
ENG COMP 100	English Composition I: College Writing	3
ENGR 213	Mechanics I	3
ENGR 214	Mechanics II	3
ENGR 301	Engineering Materials	4
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		45

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 Fencl; 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

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*

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

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

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

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

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

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

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

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.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 201	3	BIOLOGY 203		3
BIOLOGY 202	1	BIOLOGY 204		1
CHEM 211	4	CHEM 212		4
CHEM 213	1	CHEM 214		1
MATH 104 (or MATH 202 or MATH 203)	4	ENV SCI 102		3
First Year Seminar	3	ENG COMP 100 or 105		3
	16			15
				Sophomore
Fall	**Credits**	**Spring**		**Credits**
GEOSCI 202	4	ENV SCI 303 (or Env Sci 460 or PU EN AF 301 or Pu En Af 378)		3
ENV SCI 302	4	ENV SCI 336		2
MATH 260	4	ENV SCI 337		2
POL SCI 101 or 202	3	PU EN AF 250		2
		General Education/Elective		3
		General Education/Elective		3
	15			15
				Junior
Fall	**Credits**	**Spring**		**Credits**
ENV SCI 305	4	ENV SCI Upper Level Elective		3
ENV SCI 338	2	General Education/Elective		3
ENV SCI 339	2	General Education/Elective		3
General Education/Elective	3	General Education/Elective		3
General Education/Elective	3	General Education/Elective		3
	14			15
				Senior
Fall	**Credits**	**Spring**		**Credits**
ENV SCI 467, 491, or 492	4	ENV SCI Upper Level Elective		3
ENV SCI Upper Level Elective	3	General Education/Elective		3
General Education/Elective	3	General Education/Elective		3
General Education/Elective	3	General Education/Elective		3
General Education/Elective	3	General Education/Elective		3
	16			15

Total Credits: 121

Environmental Science Major

Code	Title	Credits
Supporting Courses		36
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	American Government and Politics	
or POL SCI 202	Introduction to Public Policy	
or PU EN AF 202	Introduction to Public Policy	
Mathematics (choose one of the following courses):		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
Upper-Level Courses [1]		34
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	
Choose one of the following courses:		
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	
Elective Courses (choose 9 credits):		
ENV SCI 301	Radioactivity: Past, Present, and Future	
ENV SCI 303	Environmental Sustainability	
ENV SCI 318	Pollution Control	
ENV SCI/ET 320	The Soil Environment	
ENV SCI/ET 323	Pollution Prevention	
ENV SCI/ET 330	Hydrology	
ENV SCI 335/ET 331	Water and Waste Water Treatment	
ENV SCI/ET/PHYSICS 415	Solar and Alternate Energy Systems	
ENV SCI/GEOG 421	Geoscience Field Trip	
ENV SCI 425	Global Climate Change	
ENV SCI/ET/GEOSCI 432	Hydrogeology	
ENV SCI 460	Resource Management Strategy	
ENV SCI 469	Conservation Biology	
ENV SCI 491	Senior Thesis/Research in Environmental Science	
ENV SCI 492	Practicum in Environmental Science	

GEOSCI 325	Regional Climatology	
Total Credits		70

[1] 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 (http://catalog.uwgb.edu/undergraduate/programs/environmental-science/minor/env_sci)
- International Environmental Studies Minor (http://catalog.uwgb.edu/undergraduate/programs/environmental-science/minor/international)

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. 130)
- First Nations Studies Minor (p. 131)

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. 129)

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
FNS 211 (or in Freshman year Spring)	3	FNS 211	3
FNS 225 or 226	3	FNS 225 or 226	3
First Year Seminar	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	18		18

			Sophomore
Fall	Credits	Spring	Credits
FNS 224	3	FNS 301	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	15		15

			Junior
Fall	Credits	Spring	Credits
FNS 393	3	FNS 392 (or FNS Upper Level Elective)	3
FNS Upper Level Elective	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	Elective	3
General Ed	3	Elective	3
Elective	3		
	18		15

			Senior
Fall	Credits	Spring	Credits
FNS 391	3	FNS 399	12
FNS Upper Level Elective	3	Elective	3
FNS Upper Level Elective	3		
FNS Upper Level Elective	3		
Elective	3		
	15		15

Total Credits: 129

First Nations Studies Major

Code	Title	Credits
Supporting Courses		12
Required Core Courses		
FNS 211	Mentoring First Nations Youth [1]	
FNS 225	Introduction to First Nations Studies: The Tribal World	
FNS 226	Introduction to First Nations Studies: Social Justice	
Oral Emphasis:		
FNS 216	Native American Landscapes:Imagined and Lived Spaces	
or FNS 224	First Nations and The Sacred	
Upper-Level Courses		27
FNS 391	First Nations Studies Capstone Seminar	
First Nations Policy:		
FNS 392	First Nations Justice and Tribal Governments	
or FNS 393	First Nations and Education Policy	
Oral Emphasis (complete one of the following 12 credit options):		
Option 1 Oneida Language Project		
FNS 301	Oneida Language I	
FNS 302	Oneida Language II	
FNS 303	Oneida Language III	
FNS 304	Oneida Language IV	
Option 2		
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	
Elective Courses (choose 9 credits): [2]		
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

[1] OR equivalent 3 credit learning experience

[2] Courses do not double count with Oral Emphasis options above.

First Nations Studies Minor

Code	Title	Credits
Supporting Courses		9
FNS 211	Mentoring First Nations Youth [1]	
FNS 225	Introduction to First Nations Studies: The Tribal World	
FNS 226	Introduction to First Nations Studies: Social Justice	
Upper Level Courses		15
FNS 391	First Nations Studies Capstone Seminar	
Policy Requirement:		
FNS 392	First Nations Justice and Tribal Governments	
or FNS 393	First Nations and Education Policy	
Elective Courses (choose 9 credits): [2]		
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 [3]	
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 225	Intermediate French Conversation and Composition	3
FRENCH 325	Advanced French Conversation and Composition	3

Those who have studied French in high school should select a course appropriate to their level by counting a year of high school work as equivalent to one semester of college work, or they should consult a French adviser. Students seeking teacher certification must be admitted to the Education Program and should contact the Education Office for information and further requirements.

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

Retroactive Credit

Degree seeking students who have taken a second language in high school or who have acquired knowledge of a second language elsewhere may earn up to 14 additional credits for their previous language study by completing a foreign language course beyond 101 level. With a grade of "B" or better, credit will be given in that language for all of the courses in that language preceding the one in which the student has enrolled, to a maximum of 14 credits; with a grade of "BC" or "C," half-credit will be given for the courses preceding the one in which the student has enrolled, to a maximum of seven credits.

For example, with four years of high school French, students who complete FRENCH 225, with a grade of "B" will receive 14 retroactive credits for FRENCH 101, FRENCH 102, FRENCH 201, and FRENCH 202 in addition to the three credits for FRENCH 225; students who complete the course with

a “C” will receive seven retroactive credits for FRENCH 101 (2 of the total 4 credits), FRENCH 102 (2 of the total 4 credits), FRENCH 201 (1.5 of the total 3 credits), and FRENCH 202 (1.5 of the total 3 credits).

Requests for retroactive credits in a student’s native language are not generally accepted.

To determine eligibility for retroactive credit, students must consult with the appropriate language program chair or course instructor who will advise them regarding which foreign language course they should take. If a student meets the criteria above, the course instructor must complete the Retroactive Credit Form and submit it to the Registrar’s Office. The appropriate courses and corresponding credits will then be recorded on the student’s transcript.

Retroactive credit will not be awarded based on a student’s performance on any sort of test. This includes, but is not limited to, AP, CLEP, or Challenge exams. Retroactive foreign language credits may only be earned by satisfactorily passing a course at UW-Green Bay or through an approved College Credit in the High School program as described above.

Retroactive credits earned at any UW System institution or from St. Norbert College courses will be honored and granted to transfer students. Retroactive foreign language credits awarded by other institutions will not be granted to students who transfer to UW-Green Bay. Students may request an exception to this policy by submitting a written appeal to the language coordinator of the department they wish to receive credit from.

If you’re repeating a course, contact the French and Francophone Studies program chair for further information on retroactive credits.

Area of Emphasis

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

- French and Francophone Studies Emphasis (p. 133)
- French and Francophone Studies Emphasis for Students Seeking Teaching Certification (p. 134)

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. 133)
- French and Francophone Studies Emphasis for Students Seeking Teaching Certification (p. 134)

French and Francophone Studies Emphasis

Code	Title	Credits
Supporting Courses		6
FRENCH 202	Intermediate French Language II	
FRENCH 225	Intermediate French Conversation and Composition	
Upper-Level Courses		12
FRENCH 325	Advanced French Conversation and Composition [1]	
FRENCH 329	Representative French Authors [1]	
Elective Courses (choose 6 credits):		
FRENCH 329	Representative French Authors [1]	
FRENCH 333	Literary Themes [1]	
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

[1] 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
Supporting Courses		6
FRENCH 202	Intermediate French Language II	
FRENCH 225	Intermediate French Conversation and Composition	
Upper-Level Courses		18
EDUC 311	Teaching Foreign Languages	
FRENCH 325	Advanced French Conversation and Composition [1]	
FRENCH 329	Representative French Authors [1]	
FRENCH 345	Advanced French Grammar and Translation	
FRENCH 346	French Phonetics and Public Speaking	
Elective Courses (choose 3 credits):		
FRENCH 354	France Today	
FRENCH 355	Le Monde Francophone	
Total Credits		24

[1] 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. 135)

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
Supporting Courses		8
GEOG 102	World Regions and Concepts: A Geographic Analysis	
GEOG 250/PU EN AF 250	Introduction to Geographic Information Systems (GIS)	
Choose one of the following courses:		
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	
Upper-Level Courses [1]		12
Courses selected must come from at least two of the following areas:		
Physical Geography		
GEOSCI 325	Regional Climatology	
GEOSCI 425	Global Climate Change	
Human Geography		
GEOG 341	Urban Geography	
PU EN AF 324	Transitioning to Sustainable Communities	
Regional Geography		
GEOG 321	Coastal Resources Policy and Management	
GEOG 370	Geography of South America	
UR RE ST 499	Travel Course	
Geographic Techniques		
GEOG 350	GIS in Public and Environmental Policy	
GEOG 450	Advanced Geographic Information Systems	
Total Credits		20

[1] 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. 138)
- Emphasis for Students Seeking Teaching Certification (p. 137)

Area of Emphasis

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

- Geoscience Emphasis (p. 139)
- Geoscience Emphasis for Students Seeking Teaching Certification (p. 139)

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. 136)

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*

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

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

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

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.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
GEOSCI 202	4	GEOSCI 203		3
ENG COMP 100	3	GEOSCI 204		1
MATH 104 or 202	4	MATH 202 or 260		4
First Year Seminar	3	ENG COMP 105 or COMM 133		3
General Ed	3	ENV SCI 421		1
		General Ed		3
	17			15

				Sophomore
Fall	**Credits**	**Spring**		**Credits**
CHEM 211	4	CHEM 212		4
CHEM 213	1	CHEM 214		1
ENV SCI 330	3	General Ed		3
MATH 202 or 260	4	Elective		3
General Ed	3	Elective		3

		ENV SCI 421	1
	15		15
			Junior
Fall	**Credits**	**Spring**	**Credits**
GEOSCI 340	4	GEOSCI/ENV SCI Upper Level Elective	3
ENV SCI 320	4	GEOSCI/ENV SCI Upper Level Elective	3
PHYSICS 201	5	Elective	3
General Ed	3	Elective	3
		Elective	3
		ENV SCI 421	1
	16		16
			Senior
Fall	**Credits**	**Spring**	**Credits**
GEOSCI/ENV SCI Upper Level Elective	3	GEOSCI 432	3
Elective	3	GEOSCI/ENV SCI Upper Level Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
General Ed	3		
	15		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. 138)
- Geoscience Emphasis for Students Seeking Teaching Certification (p. 137)

Education Emphasis

GEOSCIENCE Major

This emphasis also requires:

- Admission to the Education Program
- Completion of the Education minor

Code	Title	Credits
Supporting Courses [1]		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	
Choose two of the following courses:		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 260	Introductory Statistics	
COMM 133	Fundamentals of Public Address	
or ENG COMP 105	English Composition II: Composition and Rhetoric	
Upper-Level Courses		26
ENV SCI 320	The Soil Environment	

ENV SCI 330	Hydrology
or GEOSCI 432	Hydrogeology
GEOSCI 340	Introduction to Mineralogy & Petrology
Choose 12 credits from the following courses:	
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	Quaternary Geology
GEOSCI 492	Special Topics in Geoscience [2]
Total Credits	52-53

[1] Candidates for teacher certification are strongly urged to also take CHEM 212 and CHEM 214.

[2] 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
Supporting Courses		34
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	Fundamentals of Public Address	
or ENG COMP 105	English Composition II: Composition and Rhetoric	
Upper-Level Courses		26
ENV SCI 320	The Soil Environment	
ENV SCI 330	Hydrology	
GEOSCI 340	Introduction to Mineralogy & Petrology	
GEOSCI 432	Hydrogeology	
Choose 12 credits from the following courses:		
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	Quaternary Geology	
GEOSCI 492	Special Topics in Geoscience [1]	
Total Credits		60

[1] 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. 139)
- Emphasis for Students Seeking Teaching Certification (p. 139)

Education Emphasis

GEOSCIENCE Minor

This emphasis also requires:

- Admission to the Education Program.
- Completion of the Education major

Code	Title	Credits
Supporting Courses [1]		19
GEOSCI 202	Physical Geology	
GEOSCI 203	Earth System History	
GEOSCI 222	Ocean of Air: Weather and Climate	
At least 5 credits of Chemistry at the 100-200 level		
Choose one of the following courses:		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
Upper-Level Courses		12
GEOSCI 340	Introduction to Mineralogy & Petrology	
or GEOSCI 402	Sedimentology & Stratigraphy	
Choose at least 9 credits from the upper-level course list for the Geoscience major.		
Total Credits		31

[1] Candidates for teacher certification are strongly urged to also take CHEM 212 and CHEM 214.

General Emphasis

GEOSCIENCE Minor

Code	Title	Credits
Supporting Courses		20
GEOSCI 202	Physical Geology	
GEOSCI 203	Earth System History	
At least 5 credits of Chemistry at the 100-200 level		
Choose two of the following courses:		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
Upper-Level Courses		12
GEOSCI 340	Introduction to Mineralogy & Petrology	

Choose at least 8 additional credits from the upper-level course list for the Geoscience major	
Total Credits	32

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 225 — by counting a year of high school work as equivalent to a semester of college work, or they should consult the German adviser.

Students seeking teacher certification must be admitted to the Education Program and should contact the Education Office for information and further requirements.

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

Retroactive Credit

Degree seeking students who have taken a second language in high school or who have acquired knowledge of a second language elsewhere may earn up to 14 additional credits for their previous language study by completing a foreign language course beyond the 101 level. With a grade of "B" or better, credit will be given in that language for all of the courses in that language preceding the one in which the student has enrolled, to a maximum of 14 credits; with a grade of "BC" or "C," half-credit will be given for the courses preceding the one in which the student has enrolled, to a maximum of seven credits.

For example, with four years of high school German, students who complete GERMAN 225, with a grade of "B" will receive 14 retroactive credits for GERMAN 101, GERMAN 102, GERMAN 201, and GERMAN 202 in addition to the three credits for GERMAN 225; students who complete the course with a "C" will receive seven retroactive credits for GERMAN 101 (2 of the total 4 credits), GERMAN 102 (2 of the total 4 credits), GERMAN 201 (1.5 of the total 3 credits), and GERMAN 202 (1.5 of the total 3 credits).

Requests for retroactive credit in a student's native language are not generally accepted.

To determine eligibility for retroactive credit, students must consult with the appropriate language program chair or course instructor who will advise them regarding which foreign language course they should take. If a student meets the criteria above, the course instructor must complete the Retroactive Credit Form and submit it to the Registrar's Office. The appropriate courses and corresponding credits will then be recorded on the student's transcript.

Retroactive credit will not be awarded based on a student's performance on any sort of test. This includes, but is not limited to, AP, CLEP, or Challenge exams. Retroactive foreign language credits may only be earned by satisfactorily passing a course at UW-Green Bay or through an approved CCHS program as described above.

Retroactive credits earned at any UW System institution or from St. Norbert College courses will be honored and granted to transfer students. Retroactive foreign language credits awarded by other institutions will not be granted to students who transfer to UW-Green Bay. Students may request an exception to this policy by submitting a written appeal to the language coordinator of the department they wish to receive credit from.

If you're repeating a course, contact the German program chair for further information on retroactive credits.

Area of Emphasis

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

- German Emphasis (p. 143)
- German Emphasis for Students Seeking Teaching Certification (p. 142)

Area of Emphasis

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

- German Emphasis (p. 144)
- German Emphasis for Students Seeking Teaching Certification (p. 143)

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. 141)

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.

				Freshman
Fall	**Credits**		**Spring**	**Credits**
GERMAN 201	3		GERMAN 202	3
HUM STUD 101, 103, or 100	3		HUM STUD 102 or 104	3
First Year Seminar	3		ENG COMP 105	3
General Ed	3		General Ed	3
General Ed	3		General Ed	3
	15			15
				Sophomore
Fall	**Credits**		**Spring**	**Credits**
GERMAN 225	3		GERMAN 325	3
HUM STUD 213 or FNS 226	3		Humanistic Studies Perspectives Course	3
General Ed	3		Elective	3
General Ed	3		Elective	3
General Ed	3		Elective	3
	15			15
				Junior
Fall	**Credits**		**Spring**	**Credits**
GERMAN 329	3		German Upper Level Elective	3
German Upper Level Elective	3		German Upper Level Elective	3
Humanistic Studes Perspectives Course	3		Humanistic Studies Perspectives Course	3
Elective	3		Elective	3
Elective	3		Elective	3
	15			15
				Senior
Fall	**Credits**		**Spring**	**Credits**
German Upper Level Elective	3		German Upper Level Elective	3
German Upper Level Elective	3		German Upper Level Elective	3

Humanistic Studies or FNS Upper Level Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15

Total Credits: 120

German Major

Area of Emphasis

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

- General Emphasis (p. 143)
- Emphasis for Students Seeking Teaching Certification (p. 142)

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
Supporting Courses		6
GERMAN 202	Intermediate German Language II	
GERMAN 225	Intermediate German Conversation and Composition	
Upper-Level Courses		27
EDUC 311	Teaching Foreign Languages	
GERMAN 325	Advanced German Conversation and Composition	
GERMAN 329	Representative German Authors [1]	
GERMAN 345	Advanced German Grammar	
GERMAN 485	Study Abroad: Germany	
or GERMAN 499	Travel Course	
Choose 3 credits of the following courses:		
GERMAN 355	Deutsche Kultur und Landeskunde	
GERMAN 356	German Culture	
GERMAN 357	German Cinema	
GERMAN 358	German Politics and Society	
Choose 3 credits of the following courses:		
GERMAN 333	Literary Themes	
GERMAN 335	Literary Eras	
GERMAN 350	Major German Drama	
GERMAN 351	Major German Prose Fiction	
Choose 6 credits of Elective courses:		
Select from any 300-400 German upper level courses		
Total Credits		33

[1] Some upper-level courses may be repeated for credit when course content varies. See adviser.

General Emphasis

GERMAN Major

Code	Title	Credits
Supporting Courses		6
GERMAN 202	Intermediate German Language II	
GERMAN 225	Intermediate German Conversation and Composition	
Upper-Level Courses		24
GERMAN 325	Advanced German Conversation and Composition	
GERMAN 329	Representative German Authors [1]	
Choose 6 credits from the following courses: [2]		
GERMAN 355	Deutsche Kultur und Landeskunde	
GERMAN 356	German Culture	
GERMAN 358	German Politics and Society	
GERMAN 499	Travel Course	
Choose 6 credits from the following courses:		
GERMAN 333	Literary Themes	
GERMAN 335	Literary Eras	
GERMAN 350	Major German Drama	
GERMAN 351	Major German Prose Fiction	
Choose 6 credits from the courses listed above or additional courses below:		
GERMAN 345	Advanced German Grammar	
GERMAN 357	German Cinema	
GERMAN 420	Business German	
GERMAN 425	German Translation Studies	
GERMAN 498	Independent Study	
Total Credits		30

1 Some upper-level courses may be repeated for credit when course content varies. See adviser.

2 Students interested in studying abroad for one or more semesters should register for the placeholder course GERMAN 485.

German Minor

Area of Emphasis

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

- General Emphasis (p. 144)
- Emphasis for Students Seeking Teaching Certification (p. 143)

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
Supporting Courses		6
GERMAN 202	Intermediate German Language II	

GERMAN 225	Intermediate German Conversation and Composition	
Upper-Level Courses		18
EDUC 311	Teaching Foreign Languages	
GERMAN 325	Advanced German Conversation and Composition	
GERMAN 329	Representative German Authors [1]	
GERMAN 345	Advanced German Grammar	
GERMAN 485	Study Abroad: Germany	
or GERMAN 499	Travel Course	
Elective courses (choose 3 credits):		
GERMAN 333	Literary Themes	
GERMAN 335	Literary Eras	
GERMAN 350	Major German Drama	
GERMAN 351	Major German Prose Fiction	
GERMAN 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		24

[1] Some upper-level courses may be repeated for credit when course content varies. See adviser.

General Emphasis

GERMAN Minor

Code	Title	Credits
Supporting Courses		6
GERMAN 202	Intermediate German Language II	
GERMAN 225	Intermediate German Conversation and Composition	
Upper-Level Courses		12
GERMAN 325	Advanced German Conversation and Composition	
GERMAN 329	Representative German Authors [1]	
Elective courses (choose 6 credits): [2]		
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		18

[1] Some upper-level courses are repeatable for credit when course topic varies. See adviser.

[2] 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. 145)

David N Coury; Professor; Ph.D., University of Cincinnati

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

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

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

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*

Global Studies Minor

Code	Title	Credits
Supporting Courses		9
ENV SCI 102	Introduction to Environmental Sciences	
GEOG 102/UR RE ST 102	World Regions and Concepts: A Geographic Analysis	
Choose one of the following courses:		
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	

Upper-Level Courses		15
Choose five courses from the thematic categories below. At least three courses must be from different categories.		
Global Democracy: institutions and citizenship		
DJS/ECON 307	History of Economic Thought	
HISTORY 358	Political History of Modern Latin America	
HISTORY 470	Studies in Comparative History	
POL SCI 351	Comparative Politics	
POL SCI 360	International Relations	
Global Environmental Sustainability: natural resources, biodiversity and climate change		
ENV SCI 303	Environmental Sustainability	
ENV SCI/GEOSCI 425	Global Climate Change	
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy	
Global Human Security: basic human needs and services		
ANTHRO 304	Family, Kin, and Community	
HISTORY 450	War and Civilization	
HUM DEV 342	Cross Cultural Human Development	
NURSING 492	Special Topics in Nursing	
Topic: Global Aspects of Healthcare		
PSYCH 350	Psychology and Culture	
Global Peoples: nationality, ethnicity, race and religion		
GEOG 370/UR RE ST 370	Geography of South America	
HISTORY 337	The Rise of Islamic Civilization to 1800	
HISTORY 354	History of Modern East Asia	
HISTORY 356	History of Modern Africa	
HUM STUD 360	Globalization and Cultural Conflict	
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. 147)
- Healthcare Technology (p. 148)

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. 147)
- Healthcare Technology (p. 148)

Healthcare Management Emphasis

HEALTH INFORMATION MANAGEMENT AND TECHNOLOGY Major

Code	Title	Credits
Core Courses		49
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 Sytems: 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	
Healthcare Management Emphasis		12
HIMT 355	Principles of Management for HIMT Professionals	
HIMT 365	Healthcare Economics	
HIMT 415	Human Resource Management in Healthcare	
HIMT 445	Application of Leadership & Management in Healthcare Technology	
Total Credits		61

Healthcare Technology Emphasis

HEALTH INFORMATION MANAGEMENT AND TECHNOLOGY Major

Code	Title	Credits
Core Courses		49
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 Sytems: 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	
Healthcare Technology Emphasis		12
HIMT 345	Programming and Software Development	
HIMT 375	Database Structures and Management Systems	
HIMT 425	Data Warehousing and Mining	
HIMT 435	Data Communications and Networks in Healthcare	
Total Credits		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. 150)
- History Minor (p. 151)

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. 149)

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

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

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

Heidi M Sherman; Associate Professor; Ph.D., University of Minnesota, chair

David J Voelker; Associate Professor; Ph.D., University of North Carolina at Chapel Hill

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

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
HISTORY 205	3	HISTORY 206	3
First Year Seminar	3	HISTORY 103 or 104	3
General Ed	3	General Ed	3
Elective	3	General Ed	3
Elective	3	Elective	3
	15		15

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
HUM STUD 101	3	HUM STUD 102	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
Elective	3	General Ed	3
Elective	3	Elective	3
	15		15

			Junior
Fall	**Credits**	**Spring**	**Credits**
HISTORY 360	3	HISTORY 330	3
HISTORY 337, 358, or 356	3	Elective	3
General Ed	3	Elective	3

Elective	3	Elective	3
Elective	3	Elective	3
	15		15

Fall	Credits	Spring	Senior Credits
HISTORY 302	3	HISTORY 330	3
HISTORY 361	3	HISTORY 480	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		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
Supporting Courses		18
American History		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
Western History		
Choose one of the following courses:		
HISTORY/HUM STUD 101	Foundations of Western Culture I	
HISTORY/HUM STUD 102	Foundations of Western Culture II	
World History		
Choose one of the following courses:		
HISTORY/HUM STUD 103	World Civilizations I	
HISTORY/HUM STUD 104	World Civilizations II	
Historical Methods		
HISTORY 290	The Craft of History	
Elective		
Choose 1 course not taken to meet one of the above requirements		
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	
Upper-Level Courses		24
HISTORY 480	Seminar in History	
Category I, American History		
Choose one of the following courses:		
DJS 361	Historical Perspectives on American Democracy	
DJS 363	Topics in Democracy and Justice	
Topic: The U.S. and Genocide		
Topic: Historical Perspectives on US Education System		
FNS 374	Wisconsin First Nations Ethnohistory	
HISTORY 302	Problems in American Thought	
HISTORY 309	United States Immigration History	
HISTORY 310	American Colonial History	
HISTORY 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
Category II, European History	
Choose one of the following courses:	
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
Category III, Non-Western History	
Choose one of the following courses:	
DJS 363	Topics in Democracy and Justice (Topic: South Africa)
HISTORY 337	The Rise of Islamic Civilization to 1800
HISTORY 354	History of Modern East Asia
HISTORY 356	History of Modern Africa
HISTORY 358	Political History of Modern Latin America
Choose 12 credits from the following courses:	
Any 300-400 History courses may be used to complete this requirement	
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
Supporting Courses		6
HISTORY 205	American History to 1865	
or HISTORY 206	History of the United States from 1865 to the Present	
Choose one of the following courses: [1]		
HISTORY/HUM STUD 101	Foundations of Western Culture I	
HISTORY/HUM STUD 102	Foundations of Western Culture II	
HISTORY/HUM STUD 103	World Civilizations I	
HISTORY/HUM STUD 104	World Civilizations II	
Upper-Level Courses [2]		12
Choose a minimum of one of the following courses:		
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 354	History of Modern East Asia
HISTORY 356	History of Modern Africa
HISTORY 358	Political History of Modern Latin America
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. 164)
- Exercise Science (p. 160)
- Applied Public Health (http://catalog.uwgb.edu/undergraduate/programs/human-biology/major/pub-health)
- Nutritional Sciences/Dietetics (p. 166)
- General Human Biology (p. 162)
- Cytotechnology (p. 158)

Areas of Emphasis

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

- Applied Human Biology Emphasis (p. 167)
- General Human Biology Emphasis (p. 168)

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. 154)
- Human Biology Major with Health Science Emphasis Curriculum Guide (p. 156)
- Human Biology Major with Nutritional Sciences / Dietetics Emphasis Curriculum Guide (p. 157)
- Human Biology Major with General Emphasis Curriculum Guide (p. 155)
- Human Biology Major with Cytotechnology Emphasis Curriculum Guide (p. 154)

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Le Zhu; Associate Professor; Ph.D., Cornell University

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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. 154)
- Human Biology Major with Health Science Emphasis Curriculum Guide (p. 156)
- Human Biology Major with Nutritional Sciences / Dietetics Emphasis Curriculum Guide (p. 157)
- Human Biology Major with General Emphasis Curriculum Guide (p. 155)
- Human Biology Major with Cytotechnology Emphasis Curriculum Guide (p. 154)

Curriculum Guide: Human Biology Major with Cytotechnology Emphasis

An example: Four year plan for **Human Biology Major with Cytotechnology Emphasis**
120 credits necessary to graduate.
Plan is a representation and categories of classes can be switched. Check with your advisor.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
BIOLOGY 201 & BIOLOGY 202	4	CHEM 212 & CHEM 214	5
CHEM 207	1	HUM BIOL 204	5
CHEM 211 & CHEM 213	5	MATH 260	4
ENG COMP 105	3	General Ed	3
MATH 104 (if needed or First Year Seminar)	4		
	17		17

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
BIOLOGY 303 or HUM BIOL 310	3	NUT SCI 300	3
ENGLISH 104	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
		Elective	3
	12		15

			Junior
Fall	**Credits**	**Spring**	**Credits**
HUM BIOL 402	3	Human Biology Upper Level Elective	3
Human Biology Upper Level Elective	3	General Ed	3
General Ed	3	General Ed	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15

			Senior
Fall	**Credits**	**Spring**	**Credits**
Cytotechnology Internship	15	Cytotechnology Internship	15
	15		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**
120 credits necessary to graduate.

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

				Freshman
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 201 & BIOLOGY 202	4	CHEM 212 & CHEM 214		5
CHEM 207	1	ENG COMP 105		3
CHEM 211 & CHEM 213	5	HUM BIOL 204		5
MATH 104 (if needed or First Year Seminar)	4	MATH 260		4
	14			17

				Sophomore
Fall	**Credits**	**Spring**		**Credits**
COMM 133 or ENGLISH 104 (or Modern Language)	3	HUM BIOL 333		3
HUM BIOL 351	4	Modern Language (if using this for requirement) or General Ed		3
HUM BIOL 116	3	General Ed		3
General Ed	3	General Ed		3
General Ed	3	General Ed		3
		Elective		3
	16			18

				Junior
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 303, 307, or HUM BIOL 310	3	HUM BIOL 210		3
HUM BIOL 360 & HUM BIOL 361	4	NUT SCI 300		3
Human Biology Upper Level Elective	3	General Ed		3
General Ed	3	Elective		3
Elective	3	Elective		3
	16			15

				Senior
Fall	**Credits**	**Spring**		**Credits**
Human Biology Upper Level Elective	3	Human Biology Upper Level Elective		3
Human Biology Upper Level Lab	1-2	Capstone		1-3
General Ed	3	General Ed		3
General Ed	3	Elective		3
Elective	3	Elective		3
	13-14			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**

120 credits necessary to graduate.

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

				Freshman
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 201 & BIOLOGY 202	4	CHEM 212 & CHEM 214		5
CHEM 207	1	ENG COMP 105		3
CHEM 211 & CHEM 213	5	HUM BIOL 204		5
MATH 104 (if needed or First Year Seminar)	4	MATH 260		4
	14			17

				Sophomore
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 303 or HUM BIOL 310	3	NUT SCI 300		3
COMM 133 or ENGLISH 104 (or Modern Language)	3	Human Biology Upper Level Elective		3
General Ed	3	Modern Language (if using this for requirement) or General Ed		3
Elective	3	General Ed		3
		Elective		3
	12			15

				Junior
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 307 & BIOLOGY 308 (or BIOLOGY 302)	4	HUM BIOL 360 & HUM BIOL 361 (or HUM BIOL 402)		4
Human Biology Upper Level Elective	3	Human Biology Upper Level Elective		3
Human Biology Upper Level Lab	1-2	General Ed		3
General Ed	3	Elective		3
Elective	3	Elective		3
	14-15			16

				Senior
Fall	**Credits**	**Spring**		**Credits**
Human Biology Upper Level Elective	3	Human Biology Upper Level Elective		3
Human Biology Upper Level Lab	1-2	Human Biology Upper Level Lab		1-2
General Ed	3	Capstone		1-3
General Ed	3	General Ed		3
Elective	3	Elective		3
Elective	3	Elective		3
	16-17			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**
120 credits necessary to graduate.
Plan is a representation and categories of classes can be switched. Check with your advisor.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 201 & BIOLOGY 202	4	CHEM 212 & CHEM 214		5
CHEM 207	1	ENG COMP 105		3
CHEM 211 & CHEM 213	5	HUM BIOL 204		5
MATH 104	4	MATH 260		4
	14			17

				Sophomore
Fall	**Credits**	**Spring**		**Credits**
BIOLOGY 302	4	BIOLOGY 303 or HUM BIOL 310		3
CHEM 302 & CHEM 304	4	CHEM 303 & CHEM 305		4
COMM 133 or ENGLISH 104 (or Modern Language)	3	Modern Language (if using this for requirement) or General Ed		3
General Ed	3	Elective		3
	14			13

				Junior
Fall	**Credits**	**Spring**		**Credits**
CHEM 330	3	NUT SCI 300		3
HUM BIOL 402	3	PHYSICS 104		5
PHYSICS 103	5	General Ed		3
Human Biology Upper Level Lab	1-2	Elective		3

General Ed	3		
	15-16		14

Senior

Fall	Credits	Spring	Credits
Human Biology Upper Level Elective	3	Human Biology Upper Level Elective	3
Human Biology Upper Level Lab	1-2	Capstone	1-3
General Ed	3	General Ed	3
General Ed	3	Elective	3
Elective	3	Elective	3
Elective	3		
	16-17		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**
120 credits necessary to graduate.
Plan is a representation and categories of classes can be switched. Check with your advisor.

Freshman

Fall	Credits	Spring	Credits
BIOLOGY 201	3	CHEM 212	4
BIOLOGY 202	1	CHEM 214	1
CHEM 211	4	ENG COMP 105	3
CHEM 213	1	HUM BIOL 204	5
MATH 104 (if needed) or First Year Seminar)	4	General Ed	3
	13		16

Sophomore

Fall	Credits	Spring	Credits
COMM 133	3	CHEM 300	3
HUM DEV 102	3	CHEM 301	1
MATH 260 or COMM SCI 205	4	NUT SCI 201	1
NUT SCI 300	3	NUT SCI 212	4
General Ed	3	General Ed	3
		General Ed	3
	16		15

Junior

Fall	Credits	Spring	Credits
CHEM 330 & CHEM 331	4	BIOLOGY 302	4
HUM BIOL 360	3	NUT SCI 312	4
HUM BIOL 361	1	NUT SCI 350	3
NUT SCI 421	4	NUT SCI 402	3
General Ed	3	General Ed	3
	15		17

Senior

Fall	Credits	Spring	Credits
BIOLOGY 303 or HUM BIOL 310	3	NUT SCI 427	3
NUT SCI 485	3	NUT SCI 486	3
NUT SCI 487	1	General Ed	3
General Ed	3	Elective	3
General Ed	3	Elective	3
Elective	3		
	16		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. 164)
- Exercise Science (p. 160)
- Applied Public Health (http://catalog.uwgb.edu/undergraduate/programs/human-biology/major/pub-health)
- Nutritional Sciences/Dietetics (p. 166)
- General Human Biology (p. 162)
- Cytotechnology (p. 158)

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
Supporting Courses		31-34
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 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 [1]	
Select one (of 3) options:		
COMM 133	Fundamentals of Public Address	
or COMM 166	Fundamentals of Interpersonal Communication	
or		
Any literature course, e.g., ENGLISH 104 Introduction to Literature		
or		
One year of college-level foreign language		
HUM BIOL 204	Anatomy and Physiology	
MATH 104	Precalculus	
MATH 260	Introductory Statistics	
Upper-Level Courses		53-54
Select one course from three of the four areas:		
Genetics		
BIOLOGY 303	Genetics	
or HUM BIOL 310	Human Genetics	
Physiology		
HUM BIOL 402	Human Physiology	
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	
Nutrition		
NUT SCI 300	Human Nutrition	
or NUT SCI 350	Life Cycle Nutrition	
Cell Biology		

BIOLOGY 302	Principles of Microbiology
or BIOLOGY 307	Cell Biology
Choose 6 credits of the following elective courses: [2]	
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
Cytotechnology Internship	
HUM BIOL 497	Internship [3]
Total Credits	84-88

1 Satisfied for students with an ACT English score of 32 or higher.

2 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.

3 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
First Aid/CPR Requirement (may be met with Red Cross Certification)		0-3
HUM BIOL 116	First Aid and Emergency Care Procedures	
Writing Requirement		0-3
ENG COMP 105	English Composition II: Composition and Rhetoric	
Supporting Courses		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	
HUM BIOL 204	Anatomy and Physiology	
HUM BIOL 210	Prevention and Treatment of Athletic Injuries	
MATH 260	Introductory Statistics	
PHYSICS 103	Fundamentals of Physics I	
or PHYSICS 201	Principles of Physics I	
Choose one of the following 3 options:		
COMM 133	Fundamentals of Public Address	
or COMM 166	Fundamentals of Interpersonal Communication	
OR		
Any literature course, e.g., English104 Introduction to Literature		
OR		
One year of any college-level foreign language		
Upper-Level Courses		30
HUM BIOL 333	Principles of Sports Physiology	
HUM BIOL 351	Kinesiology	
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	
NUT SCI 300	Human Nutrition	
Choose one of the following courses:		
BIOLOGY 303	Genetics	
or HUM BIOL 310	Human Genetics	
Organic Chemistry options		
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	
Laboratory Electives (choose 1 course from the following courses):		
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
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 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	
Total Credits		57-63

General Human Biology Emphasis

HUMAN BIOLOGY Major

Code	Title	Credits
Supporting Courses		30-35
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 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 [1]	
HUM BIOL 204	Anatomy and Physiology	
MATH 260	Introductory Statistics	
Choose one of the following 3 options:		
COMM 133	Fundamentals of Public Address	
or COMM 166	Fundamentals of Interpersonal Communication	
or		
Any literature course, e.g., ENGLISH 104 Introduction to Literature		
or		
One year of any college-level foreign language		
Organic Chemistry - choose one option		
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	
Upper-Level Courses		30-31
Choose one course from three of the four areas:		
Genetics		
BIOLOGY 303	Genetics	
or HUM BIOL 310	Human Genetics	
Physiology (one of two options)		
HUM BIOL 402	Human Physiology	
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism [3]	
Nutrition		
NUT SCI 300	Human Nutrition	
or NUT SCI 350	Life Cycle Nutrition	
Cell Biology		
BIOLOGY 302	Principles of Microbiology	
or BIOLOGY 307	Cell Biology	
Laboratory Courses (need 3 upper level lab courses): [2]		
BIOLOGY 302	Principles of Microbiology	
BIOLOGY 304	Genetics Laboratory	
BIOLOGY 308	Cell Biology Laboratory	
BIOLOGY 303	Genetics	
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 310	Human Genetics
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
Additional Upper-Level Electives (15 credits)	
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
Total Credits	60-66

[1] Satisfied with an ACT English score of 32 or higher

[2] 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.

[3]

Health Science Emphasis

HUMAN BIOLOGY Major

Code	Title	Credits
Supporting Courses [1]		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 [2]	
HUM BIOL 204	Anatomy and Physiology	
MATH 260	Introductory Statistics	
Choose one of the following courses:		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
Choose one of the following options:		
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	
Choose one of the following 3 options:		
COMM 133	Fundamentals of Public Address	
or COMM 166	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 & 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
or CHEM 311	Analytical Chemistry
Health Science Electives (minimum of 8 credits):	
Minimum of two upper-level laboratory courses. [3]	
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
Total Credits	73-77

[1] It is highly recommended that as **freshmen**, pre-medical and pre-dental students take BIOLOGY 201, BIOLOGY 202 and CHEM 211, CHEM 212, CHEM 213, CHEM 214 and consult and adviser.

[2] Satisfied with an ACT English score of 32 or higher.

[3] BIOLOGY 340 and BIOLOGY 402 are 4 credits each, all other courses in this list are 1 credit.

Nutritional Sciences/Dietetics Emphasis

HUMAN BIOLOGY Major

Code	Title	Credits
Supporting Courses		35-38
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 [1]	
HUM BIOL 204	Anatomy and Physiology	
HUM DEV 102	Introduction to Human Development	
or PSYCH 102	Introduction to Psychology	
NUT SCI 201	Survey of Nutrition Related Professions	
NUT SCI 212	Science of Food Preparation	
Required Courses		
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
Required Upper-Level Courses		
BIOLOGY 302	Principles of Microbiology	
BIOLOGY 303	Genetics	
or HUM BIOL 310	Human Genetics	
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
Select one (of two) physiology options		

HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	
or HUM BIOL 402	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	
Choose one of the following options:		
NUT SCI 327	Nutritional Biochemistry	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	
Additional Courses (NOT REQUIRED) to Consider		
NUT SCI 495	Research in Nutritional Science	1-5
NUT SCI 497	Internship	1-12
NUT SCI 498	Independent Study	1-4
Total Credits		38-59

[1] 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. 167)
- General Human Biology Emphasis (p. 168)

Applied Human Biology Emphasis

HUMAN BIOLOGY Minor

Code	Title	Credits
Supporting Courses		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	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
HUM BIOL 204	Anatomy and Physiology	
Upper-Level Courses		14-16
BIOLOGY 407 & BIOLOGY 408	Molecular Biology and Molecular Biology Laboratory	
OR		
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	
Choose one of the following courses:		
BIOLOGY 346	Comparative Physiology	
HUM BIOL 350	Exercise Physiology	

HUM BIOL 402	Human Physiology
Electives	
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
Supporting Courses		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	
HUM BIOL 204	Anatomy and Physiology	
Select a Chemistry option		
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	General Chemistry and General Chemistry Laboratory	
Upper-Level Courses		12-13
Choose one course from each of the following areas:		
Genetics		
BIOLOGY 303	Genetics	
or HUM BIOL 310	Human Genetics	
Physiology		
HUM BIOL 402	Human Physiology	
OR		
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	
Nutrition		
NUT SCI 300	Human Nutrition	
or NUT SCI 350	Life Cycle Nutrition	
Cell Biology		
BIOLOGY 302	Principles of Microbiology	
or BIOLOGY 307	Cell Biology	
Total Credits		27-33

Human Development

(Bachelor of Science)

Human Development is a broad-based major that explores human growth and change as a lifelong process which a) involves biological, cognitive, emotional, social and moral development, and b) occurs in multiple contexts. It examines the factors that promote healthy development, as well as variations from the norm. Consistent with the interdisciplinary focus of UW-Green Bay, Human Development is a liberal arts program that works to integrate the contributions of psychologists, biologists, anthropologists, sociologists, and scholars from other fields to improve our understanding of the life cycle. Students have opportunities to apply knowledge and to practice the integration of information and methods from different disciplines.

Students follow an introduction to the major with courses that advance the major's learning objectives of developing basic skills such as informational literacy, research skills, and learning about diverse contexts. Human Development focuses on the core phases of development and advanced courses in specific areas of the field (e.g., family and relationships, gender and diversity, and biological and health topics). Students select these upper-level

courses based, at least in part, on their particular career goals. Students also take courses from the different disciplines (e.g., biology, public policy, psychology) that contribute to the field of human development.

One particular advantage of the Human Development program is the opportunity for undergraduate students to gain practical experience, and many work with faculty on independent research projects or as research assistants or teaching assistants. Human Development also strives to educate students who are committed to and engaged in their communities. Therefore, students are strongly encouraged to seek applied experience through an internship in an approved community agency, part-time employment, or volunteer work. Such experiences are beneficial when entering the job market or seeking admission to graduate and professional schools.

Human Development is a suitable major or minor for students who plan a career that involves working with people and helping to solve human problems. Career possibilities are varied because of the knowledge students gain, along with the communication, critical thinking, research, and application skills they acquire in a liberal arts major. There are many options in human service, business, and educational settings. Alumni have worked in domestic violence shelters, for non-profit advocacy groups, in sales and customer service, and both with young children in preschools and with adults seeking admission to college. They have also pursued graduate studies in diverse fields, including human development and family studies, higher education or student affairs, law, marriage and family therapy, and more. Admission to graduate school is highly selective and requires a student to have very strong academic credentials. Students with these interests should plan their programs carefully with their advisers in order to select courses and experiences that maximize their competitiveness and be as prepared as possible to apply to graduate school.

Although a minor is not required to graduate with a Human Development major, minors or double majors in such areas as Public and Environmental Affairs, Business Administration, Women's and Gender Studies, and Psychology may be helpful complements in preparing for specific objectives. Faculty advisers can help students tailor their choice of academic plan and electives to their individual career goals. More detailed information about both career and graduate school options for Human Development students can be found on the department website: http://www.uwgb.edu/human-development/.

Human Development Minor
The Human Development minor adds a broad, interdisciplinary component to traditional social science majors such as Psychology and to other majors such as Human Biology, Design Arts, Arts Management, and Democracy and Justice Studies. For students who major in professional programs such as Education, Social Work, or Business Administration, the minor adds a strong developmental focus to their programs of study.

- Human Development Major (p. 170)
- Human Development Minor (p. 171)

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

- Human Development Curriculum Guide (p. 170)

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

Regan Gurung; Professor; Ph.D., University of Washington - Seattle

Ryan C Martin; Professor; Ph.D., University of Southern Mississippi

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, chair

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

Human Development Curriculum Guide

An example: Four year plan for Human Development Major
120 credits necessary to graduate.
Plan is a representation and categories of classes can be switched. Check with your advisor.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
ANTHRO 100 or SOCIOL 202	3	COMM SCI 205	4
HUM BIOL 102	3	Multidisciplinary Course	3
HUM DEV 102	3	General Ed	3
PSYCH 102	3	General Ed	3
First Year Seminar	3	General Ed	3
	15		16

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
HUM DEV 331	3	HUM DEV 302	4
Multidisciplinary Course	3	HUM DEV 332	3
General Ed	3	General Ed	3
General Ed	3	Elective	3
General Ed	3	Elective	3
	15		16

			Junior
Fall	**Credits**	**Spring**	**Credits**
HUM DEV 343	3	HUM DEV Upper Level Elective	3
HUM DEV Upper Level Elective	3	HUM DEV Upper Level Elective	3
Multidisciplinary Course	3	Elective	3
General Ed	3	Elective	3
Elective	3	Elective	3
Elective	3		
	18		15

			Senior
Fall	**Credits**	**Spring**	**Credits**
HUM DEV Upper Level Elective	3	HUM DEV Upper Level Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15

Total Credits: 125

Electives may include HUM DEV 478 Honors in the Major (3), HUM DEV 495 Teaching Assistantship (1-6), HUM DEV 496 Research Assistantship (1-6), or HUM DEV 498 Independent Study (1-4), but these do not count toward Major requirements.

Human Development Major

Code	Title	Credits
Supporting Courses		13
Basic Foundational Knowledge and Skills		
HUM DEV 102	Introduction to Human Development	
Research Skills, choose one of the following courses:		
BUS ADM 216	Business Statistics (for Business majors and minors only)	
COMM SCI 205	Social Science Statistics (strongly recommended)	
MATH 260	Introductory Statistics	
Foundation Disciplines (required 6 credits):		
Public Policy (choose one of the following courses):		
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	

Human Biology (Choose one of the following courses):		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
or HUM BIOL 102	Introduction to Human Biology	
Upper-Level Courses		28
Research Methodology		
HUM DEV 302	Developmental Research Methods	
Lifespan Development		
HUM DEV 331	Infancy and Early Childhood	
HUM DEV 332	Middle Childhood and Adolescence	
HUM DEV 343	Adulthood and Aging	
Electives (Choose 15 Credits)		
HUM DEV 314	Family Policy	
HUM DEV/WOST 336	Gender Development Across the Lifespan	
HUM DEV 342	Cross Cultural Human Development	
HUM DEV 344	Dying, Death, and Loss	
HUM DEV 345	Human Sexuality	
HUM DEV 346	Culture, Development and Health	
HUM DEV 350	Developmental Psychobiology	
HUM DEV 353	Family Development	
HUM DEV 370	Personal Relationships	
HUM DEV 443	Spirituality and Development	
HUM DEV 494	Capstone	
HUM DEV 497	Internship	
HUM DEV 499	Travel Course	
Any of the following is encouraged, but does not count toward major requirements:		
HUM DEV 478	Honors in the Major	
HUM DEV 495	Teaching Assistantship	
HUM DEV 496	Research Assistantship	
HUM DEV 498	Independent Study	
Total Credits		41

Human Development Minor

Code	Title	Credits
Supporting Courses		6
HUM DEV 102	Introduction to Human Development	
Choose one of the following courses:		
HUM BIOL 102	Introduction to Human Biology	
POL SCI 101	American Government and Politics	
PSYCH 102	Introduction to Psychology	
PU EN AF 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
Upper-Level Courses		12
Choose two of the following courses:		
HUM DEV 331	Infancy and Early Childhood	
HUM DEV 332	Middle Childhood and Adolescence	
HUM DEV 343	Adulthood and Aging	
Choose two additional courses at the 300-400 upper level with the HUM DEV prefix		
Any of the following is encouraged, but does not count toward minor requirements:		
HUM DEV 494	Capstone	
HUM DEV 495	Teaching Assistantship	
HUM DEV 496	Research Assistantship	

HUM DEV 497	Internship
HUM DEV 498	Independent Study
HUM DEV 499	Travel Course
Total Credits	18

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 and at http://www.uwgb.edu/liberal-arts/resources/individual-major.asp.

Donna Ritch; Associate Professor; Ph.D., Pennsylvania State University, chair

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. 174)
- Game Studies (p. 174)
- Information Technology (p. 175)

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. 173)

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

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

Ankur Chattopadyay; 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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
COMM 133	3	COMM 205	3
COMP SCI 201	4	COMP SCI 256	4
First Year Seminar	3	INFO SCI 302	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	16		16

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
COMM 290	3	COMP SCI 240	4
COMP SCI 221	3	INFO SCI 308	3
COMP SCI 231	3	MATH 260	4
General Ed	3	General Ed	3
Elective	3	Elective	3
	15		17

			Junior
Fall	**Credits**	**Spring**	**Credits**
INFO SCI 361	3	INFO SCI 410	3
General Ed	3	INFO SCI 411	3
Elective	3	General Ed	3
Elective	3	Elective	3
		Elective	3
	12		15

			Senior
Fall	**Credits**	**Spring**	**Credits**
INFO SCI 412	3	COMP SCI 451	3
COMM, COMP SCI, or INFO SCI course	3	General Ed	3
Elective	3	Elective	3
Elective	3	Capstone	1-4
Elective	3	Elective	3
	15		13-16

Total Credits: 119-122

Information Sciences Major

Area of Emphasis

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

- Data Science (p. 174)
- Game Studies (p. 174)
- Information Technology (p. 175)

Data Science Emphasis

Code	Title	Credits
Supporting Courses		31
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	
COMM 133	Fundamentals of Public Address	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
MATH 260	Introductory Statistics	
Upper-level Courses		27
INFO SCI 302	Introduction to Data Science	
INFO SCI 308	Information Technologies	
INFO SCI 361	Introduction To Information Assurance & Security	
INFO SCI 410	Advanced Information Problems	
INFO SCI 411	Statistical Techniques and Decision Modeling	
INFO SCI 412	Data Mining and Predictive Analytics	
COMP SCI 372	Software Engineering	
COMP SCI 451	Database Systems and Big Data Processing	
Elective Course - Three additional credits at the upper level in COMM, COMP SCI, or INFO SCI		
Total Credits		58

Game Studies Emphasis

INFORMATION SCIENCES Major

Code	Title	Credits
Supporting Courses		31
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	
COMM 133	Fundamentals of Public Address	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
MATH 260	Introductory Statistics	
Upper-Level Courses		
COMM/INFO SCI 308	Information Technologies	
INFO SCI 332	Mobile Platforms and Apps	
INFO SCI 341	Survey of Gaming and Interactive Media	

INFO SCI 342	Game Design
COMP SCI 316	Advanced Software Design
COMP SCI 352	Computer Graphics and Animation
COMP SCI 454	Artificial Intelligence
COMP SCI 474	Game Engines
Elective Course - 3 additional credits at the upper level in COMM, COMP SCI or INFO SCI	
Total Credits	31

Information Technology Emphasis

INFORMATION SCIENCES Major

Code	Title	Credits
Supporting Courses		30
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	
COMM 133	Fundamentals of Public Address	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
MATH 260	Introductory Statistics	
Upper Level Courses		28
INFO SCI/COMM 308	Information Technologies	
INFO SCI 332	Mobile Platforms and Apps	
INFO SCI 361	Introduction To Information Assurance & Security	
INFO SCI 410	Advanced Information Problems	
INFO SCI/COMM 430	Information, Media and Society	
COMP SCI 316	Advanced Software Design	
COMP SCI 358	Data Communication and Computer Networks	
COMP SCI 452	Operating Systems Using Linux	
Elective Courses (choose 3 credits):		
Three credits should be from upper-level courses in COMM, COMP SCI, or INFO SCI		
Total Credits		58

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 http://www.uwgb.edu/oira/cfpl/ap/.

Retroactive credit for MATH 202 is not awarded to students who transfer to UW-Green Bay and have completed coursework deemed to be equivalent to MATH 203. If the student completes MATH 209 or 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. 178)
- Statistics Emphasis (p. 179)

- Actuarial Science Minor (http://catalog.uwgb.edu/undergraduate/programs/mathematics/mathematics-minor/actuarial-sci)
- Mathematics Minor: Students must complete requirements in one of the following areas of emphasis:
  - Mathematics Emphasis (p. 179)
  - Statistics Emphasis (p. 180)

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. 177)
- Statistics Emphasis (p. 177)

Devin Bickner; Associate Professor; Ph.D., Iowa State University

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

Brian Murphy; Associate Professor; Ph.D., Marquette University

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

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

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

Mark Norfleet; Assistant Professor; Ph.D., University of Texas at Austin

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. 177)
- Statistics Emphasis (p. 177)

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
MATH 202	4	MATH 203	4
First Year Seminar	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
Elective	3	Elective	3
	16		16

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
MATH 209	4	MATH 314	3
General Ed	3	General Ed	3
General Ed	3	Elective	3
Elective	3	Elective	3
		Elective	3
	13		15

			Junior
Fall	**Credits**	**Spring**	**Credits**
MATH 320	4	MATH 305	4
General Ed	3	MATH 328	3
General Ed	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	16		16

			Senior
Fall	**Credits**	**Spring**	**Credits**
MATH 323	4	MATH 385	3
Elective	3	MATH 355	3
Elective	3	Math Upper Level Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	16		15

Total Credits: 123

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
MATH 202	4	MATH 203	4
First Year Seminar	3	MATH 260	4
General Ed	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	Elective	3
	16		17

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
MATH 209	4	MATH 314	3
MATH 320	4	General Ed	3

General Ed	3	Elective	3
General Ed	3	Elective	3
Elective	3	Elective	3
	17		15

Junior

Fall	Credits	Spring	Credits
MATH 323	4	MATH 355	3
General Ed	3	General Ed	3
General Ed	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	16		15

Senior

Fall	Credits	Spring	Credits
MATH 329	4	MATH 361	3
MATH 360	3	Math Upper Level Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	16		15

Total Credits: 127

Mathematics Major

Area of Emphasis

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

- Mathematics Emphasis (p. 178)
- Statistics Emphasis (p. 179)

Mathematics Emphasis

MATHEMATICS Major

Code	Title	Credits
Supporting Courses		16
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
Upper-Level Courses		29
MATH 305	Ordinary Differential Equations	
MATH 314	Proofs in Number Theory and Topology	
MATH 320	Linear Algebra and Matrix Theory (Linear Algebra and Matrix Theory (New Title))	
MATH 323	Analysis (Analysis (New Title))	
MATH 328	Introduction to Algebraic Structures	
MATH 355	Applied Mathematical Optimization	
MATH 385	Foundations of Geometry	
Elective Courses (choose one of the following):		
MATH 410	Complex Analysis	
MATH 425	Dynamical Systems	
MATH 492	Special Topics in Mathematics	
Total Credits		45

Statistics Emphasis

MATHEMATICS Major

Code	Title	Credits
Supporting Courses		16
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
Upper-Level Courses		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	
Elective Courses (choose one of the following):		
MATH 430	Design of Experiments	
MATH 431	Multivariate Statistical Analysis	
MATH 492	Special Topics in Mathematics	
Total Credits		47

Mathematics Minors

- Actuarial Science Minor (http://catalog.uwgb.edu/undergraduate/programs/mathematics/mathematics-minor/actuarial-sci)
- Mathematics Minor: Students must complete requirements in one of the following areas of emphasis:
  - Mathematics Emphasis (p. 179)
  - Statistics Emphasis (p. 180)

Mathematics Emphasis

MATHEMATICS Minor

Code	Title	Credits
Supporting Courses		16
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
Upper-Level Courses		12
MATH 320	Linear Algebra and Matrix Theory	
Elective Courses (choose two of the following):		
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		28

Statistics Emphasis

MATHEMATICS Minor

Code	Title	Credits
Supporting Courses		16
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
Upper-Level Courses		12
MATH 320	Linear Algebra and Matrix Theory	
Elective Courses (choose two of the following):		
MATH 329	Applied Regression Analysis	
MATH 360	Theory of Probability	
MATH 361	Mathematical Statistics	
MATH 430	Design of Experiments	
MATH 467	Applied Regression Analysis	
Total Credits		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. 104) 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. 185)
- Music Education: Pre-K-12 Choral and General Music (p. 183)
- Instrumental Performance (p. 182)
- Vocal Performance (p. 187)

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. 189)
- Individual Studies (p. 191)
- Jazz Studies (p. 193)

Area of Emphasis

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

- Music Performance (http://catalog.uwgb.edu/undergraduate/programs/music/minor/performance)
- Music Studies (http://catalog.uwgb.edu/undergraduate/programs/music/minor/studies)

Dewhirst Michelle McQuade; 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

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

Michael Rector; Assistant Professor; D.M.A., Manhattan School of Music

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. 185)
- Music Education: Pre-K-12 Choral and General Music (p. 183)
- Instrumental Performance (p. 182)
- Vocal Performance (p. 187)

Instrumental Performance

Music Major (Bachelor of Music)

Code	Title	Credits
Supporting Courses		28-31
MUSIC 102	Concert Attendance (8 semesters required)	
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 215	Advanced Sight Singing and Ear Training	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
Keyboard Requirement:		
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV	
or MUS APP 13	Advanced Keyboard Musicianship	
First Semester Applied (2 credits):		
MUS APP 101	Keyboard Lessons 1	
or MUS APP 127	Instrumental Lessons 1	
Second Semester Applied (2 credits):		
MUS APP 102	Keyboard Lessons 2	
or MUS APP 128	Instrumental Lessons 2	
Third Semester Applied (2 credits):		
MUS APP 201	Keyboard Lessons 3	
or MUS APP 227	Instrumental Lessons 3	
Fourth Semester Applied (2 credits):		
MUS APP 202	Keyboard Lessons 4	
or MUS APP 228	Instrumental Lessons 4	
Major Ensemble (complete 4 credits):		
MUS ENS 241	Bands and Orchestra	
Upper-Level Courses		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	
Fifth Semester Applied (3 credits):		

MUS APP 301	Keyboard Lessons 5
or MUS APP 327	Instrumental Lessons 5
Sixth Semester Applied (3 credits): Must perform full recital	
MUS APP 302	Keyboard Lessons 6
or MUS APP 328	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
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
Supporting Courses		31-34
MUSIC 102	Concert Attendance (8 semesters required)	
MUSIC 103	Music Technology Tools	

MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 215	Advanced Sight Singing and Ear Training	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
MUS APP 69	Elementary Guitar	
Keyboard Requirement:		
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV	
or MUS APP 13	Advanced Keyboard Musicianship	
Applied Lessons (8 credits required):		
MUS APP 105	Voice Lessons 1	
MUS APP 106	Voice Lessons 2	
MUS APP 205	Voice Lessons 3	
MUS APP 206	Voice Lessons 4	
Major Ensemble (complete 4 credits):		
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
Improvisation-choose one:		
MUSIC 220	Introduction to Jazz Theory and Improvisation	
MUS ENS 142	Jazz Combo	
MUS ENS 150	New Music Ensemble	
MUS ENS 165	Vocal Jazz Ensemble	
MUS ENS 188	Hand Drumming Ensemble	
MUS ENS 342	Jazz Combo	
MUS ENS 350	New Music Ensemble	
MUS ENS 365	Vocal Jazz Ensemble	
MUS ENS 388	Hand Drumming Ensemble	
Upper-Level Courses		36
EDUC 317	Teaching Music in the Middle and Secondary Schools	
EDUC 334	Teaching General Music in the Elementary and Middle Schools	
MUS APP 396	Junior Recital	
MUSIC 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	
Choral / Vocal Techniques (3 credits required):		
MUSIC 319	Choral/Vocal Techniques	
Applied Lessons (4 credits required):		
MUS APP 305	Voice Lessons 5	
MUS APP 306	Voice Lessons 6 Must Perform Half Recital	
Minor Ensemble (complete 2 credits):		
MUS ENS 142	Jazz Combo	
MUS ENS 143	Jazz Ensemble	
MUS ENS 144	Woodwind Ensemble	
MUS ENS 145	Brass Ensemble	
MUS ENS 146	Contemporary Percussion Ensemble	

MUS ENS 150	New Music Ensemble
MUS ENS 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera 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
Major Ensemble (complete 2 credits):	
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
Upper-Level History/Theory Elective	
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
Supporting Courses		32-35
MUSIC 102	Concert Attendance (8 semesters required)	
MUSIC 103	Music Technology Tools	
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 215	Advanced Sight Singing and Ear Training	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
MUS APP 45	Elementary Voice I	
MUS APP 69	Elementary Guitar	
Keyboard Requirement:		
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV	
or MUS APP 13	Advanced Keyboard Musicianship	
First Semester Applied (complete 2 credits):		
MUS APP 101	Keyboard Lessons 1	
or MUS APP 127	Instrumental Lessons 1	
Second Semester Applied (complete 2 credits):		
MUS APP 102	Keyboard Lessons 2	
or MUS APP 128	Instrumental Lessons 2	

Third Semester Applied (complete 2 credits):		
MUS APP 201	Keyboard Lessons 3	
or MUS APP 227	Instrumental Lessons 3	
Fourth Semester Applied (complete 2 credits):		
MUS APP 202	Keyboard Lessons 4	
or MUS APP 228	Instrumental Lessons 4	
Major Ensemble (complete a total of 4 credits):		
MUS ENS 241	Bands and Orchestra	
Improvisation-choose one:		
MUSIC 220	Introduction to Jazz Theory and Improvisation	
MUS ENS 142	Jazz Combo	
MUS ENS 150	New Music Ensemble	
MUS ENS 165	Vocal Jazz Ensemble	
MUS ENS 188	Hand Drumming Ensemble	
MUS ENS 342	Jazz Combo	
MUS ENS 350	New Music Ensemble	
MUS ENS 365	Vocal Jazz Ensemble	
MUS ENS 388	Hand Drumming Ensemble	
Upper-Level Courses		36
EDUC 317	Teaching Music in the Middle and Secondary Schools	
EDUC 334	Teaching General Music in the Elementary and Middle Schools	
MUS APP 396	Junior Recital	
MUSIC 333	Basic Conducting	
MUSIC 341	Woodwind Techniques	
MUSIC 342	Brass Techniques	
MUSIC 343	String Techniques	
MUSIC 345	Percussion Techniques	
MUSIC 348	Instrumental Conducting and Rehearsal Techniques	
MUSIC 353	Music History I	
MUSIC 354	Music History II	
MUSIC 362	World Music	
Minor Ensemble (complete 2 credits):		
MUS ENS 142	Jazz Combo	
MUS ENS 143	Jazz Ensemble	
MUS ENS 144	Woodwind Ensemble	
MUS ENS 145	Brass Ensemble	
MUS ENS 146	Contemporary Percussion Ensemble	
MUS ENS 150	New Music Ensemble	
MUS ENS 163	Chamber Singers	
MUS ENS 165	Vocal Jazz Ensemble	
MUS ENS 166	Opera 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
Major Ensemble (complete 2 credits):	
MUS ENS 441	Bands and Orchestra
Fifth Semester Applied (complete 2 credits):	
MUS APP 301	Keyboard Lessons 5
or MUS APP 327	Instrumental Lessons 5
Sixth Semester Applied (complete 2 credits): Must perform half recital	
MUS APP 302	Keyboard Lessons 6
or MUS APP 328	Instrumental Lessons 6
Upper-Level History Theory Elective	
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
Supporting Courses		28
MUSIC 102	Concert Attendance (8 semesters required)	
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 215	Advanced Sight Singing and Ear Training	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
Keyboard Requirement:		
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV	
or MUS APP 13	Advanced Keyboard Musicianship	
Applied Lessons (8 credits required):		
MUS APP 105	Voice Lessons 1	
MUS APP 106	Voice Lessons 2	
MUS APP 205	Voice Lessons 3	
MUS APP 206	Voice Lessons 4	
Major Ensemble (complete 4 credits):		
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
Foreign Language Requirement		
Vocal Performance student must complete 3 semesters of any combination of Italian, French and German language courses		
Upper-Level Courses		47
MUS APP 396	Junior Recital	
MUS APP 496	Senior Recital	
MUSIC 305	Diction for Singers I	
MUSIC 306	Diction for Singers II	
MUSIC 319	Choral/Vocal Techniques (Vocal Pedagogy)	
MUSIC 319	Choral/Vocal Techniques (Choral Arranging)	
MUSIC 333	Basic Conducting	
MUSIC 353	Music History I	

MUSIC 354	Music History II
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 423	Seminar in Music Literature
MUSIC 453	Materials and Design
Fifth Semester Applied (3 credits):	
MUS APP 305	Voice Lessons 5
Sixth Semester Applied (3 credits):	
MUS APP 306	Voice Lessons 6 Must perform full recital
Seventh Semester Applied (3 credits):	
MUS APP 405	Voice Lessons 7
Eighth Semester Applied (3 credits):	
MUS APP 406	Voice Lessons 8 Must perform full recital
Major Ensemble (complete 4 credits):	
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
Minor Ensemble (2 credits):	
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
Music Electives (complete 2 credits):	
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. 189)
- Individual Studies (p. 191)
- Jazz Studies (p. 193)

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
Supporting Courses		29-32
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV	
or MUS APP 13	Advanced Keyboard Musicianship	
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	
First Semester Applied (1 credit):		
MUS APP 101	Keyboard Lessons 1	
MUS APP 105	Voice Lessons 1	
MUS APP 127	Instrumental Lessons 1	
Second Semester Applied (1 credit):		
MUS APP 102	Keyboard Lessons 2	
MUS APP 106	Voice Lessons 2	
MUS APP 128	Instrumental Lessons 2	
Third Semester Applied (1 credit):		
MUS APP 201	Keyboard Lessons 3	
MUS APP 205	Voice Lessons 3	
MUS APP 227	Instrumental Lessons 3	
Fourth Semester Applied (1 credit):		
MUS APP 202	Keyboard Lessons 4	
MUS APP 206	Voice Lessons 4	
MUS APP 228	Instrumental Lessons 4	
Major Ensemble Requirement (complete 4 credits):		
MUS ENS 241	Bands and Orchestra	
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
Upper-Level Courses		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	
Upper-Level Minor Ensemble (1 credit):		

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
Upper-Level Electives (6 credits required):	
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
Total Credits	53-56

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
Supporting Courses		24-25
Keyboard Requirement:		
MUS APP 11 & MUS APP 21	Keyboard Musicianship I and Keyboard Musicianship II	
or MUS APP 13	Advanced Keyboard Musicianship	
MUSIC 102	Concert Attendance (6 semesters required)	
MUSIC 103	Music Technology Tools	
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
First Semester Applied (1 credit):		
MUS APP 101	Keyboard Lessons 1	
MUS APP 105	Voice Lessons 1	
MUS APP 127	Instrumental Lessons 1	
Second Semester Applied (1 credit):		
MUS APP 102	Keyboard Lessons 2	
MUS APP 106	Voice Lessons 2	
MUS APP 128	Instrumental Lessons 2	
Third Semester Applied (1 credit):		
MUS APP 201	Keyboard Lessons 3	
MUS APP 205	Voice Lessons 3	
MUS APP 227	Instrumental Lessons 3	
Fourth Semester Applied (1 credit):		
MUS APP 202	Keyboard Lessons 4	
MUS APP 206	Voice Lessons 4	
MUS APP 228	Instrumental Lessons 4	
Major Ensemble Requirement (complete 4 credits):		
MUS ENS 241	Bands and Orchestra	
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
Upper-Level Courses		26
MUSIC 353	Music History I	
MUSIC 354	Music History II	
MUSIC 480	Capstone Project	
Music Theory and History (3 credits):		
MUSIC 423	Seminar in Music Literature	

or MUSIC 453	Materials and Design
Minor Ensemble (complete 2 credits):	
MUS ENS 313	Keyboard Accompanying
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Workshop
MUS ENS 388	Hand Drumming Ensemble
Upper-Level Electives (12 credits):	
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
Supporting Courses		30-31
Keyboard Requirement:		
MUS APP 11 & MUS APP 21	Keyboard Musicianship I and Keyboard Musicianship II	
or MUS APP 13	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	
First Semester Applied (1 credit):		
MUS APP 101	Keyboard Lessons 1	
MUS APP 105	Voice Lessons 1	
MUS APP 127	Instrumental Lessons 1	
Second Semester Applied (1 credit):		
MUS APP 102	Keyboard Lessons 2	
MUS APP 106	Voice Lessons 2	
MUS APP 128	Instrumental Lessons 2	
Third Semester Applied (1 credit):		
MUS APP 201	Keyboard Lessons 3	
MUS APP 205	Voice Lessons 3	
MUS APP 227	Instrumental Lessons 3	
Fourth Semester Applied (1 credit):		
MUS APP 202	Keyboard Lessons 4	
MUS APP 206	Voice Lessons 4	
MUS APP 228	Instrumental Lessons 4	
Major Ensemble Requirement (complete 4 credits):		
MUS ENS 241	Bands and Orchestra	
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
Jazz Ensemble (1 credit):		
MUS ENS 143	Jazz Ensemble	
MUS ENS 165	Vocal Jazz Ensemble	
Upper-Level Courses		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
Major Ensemble (complete 2 credits):	
MUS ENS 441	Bands and Orchestra
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
Jazz Ensemble (2 credits):	
MUS ENS 343	Jazz Ensemble
MUS ENS 365	Vocal Jazz Ensemble
Music Electives (5 credits):	
MUSIC 301	Music Technology Systems
MUSIC 311	Jazz Improvisation
MUSIC 362	World Music
MUSIC 364	Musical Theatre History
MUSIC 411	Advanced Composition
MUSIC 417	Jazz Arranging
MUS APP 301	Keyboard Lessons 5
MUS APP 302	Keyboard Lessons 6
MUS APP 305	Voice Lessons 5
MUS APP 306	Voice Lessons 6
MUS APP 327	Instrumental Lessons 5
MUS APP 328	Instrumental Lessons 6
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 365	Vocal Jazz Ensemble
Total Credits	55-56

Music Minor

Area of Emphasis

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

- Music Performance (http://catalog.uwgb.edu/undergraduate/programs/music/minor/performance)
- Music Studies (http://catalog.uwgb.edu/undergraduate/programs/music/minor/studies)

Nursing

(Bachelor of Science in Nursing)

Overview of the Program in Nursing

The RN to 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 program or from a diploma program in nursing;
- Grade point average of 2.5 on a 4.0 scale (or equivalent) on post-secondary coursework, or satisfactory completion of a diploma program;
- Current, unencumbered RN license in any state; and
- Consultation with a Nursing program adviser.

Three Tracks, One Destination

The program is offered in three tracks:

- **Campus Track** (face-to-face courses);
- **BSN@HOME Track** (via the internet for nurses residing in the state of Wisconsin);
- **BSN-LINC/National Track** (via the internet for nurses residing outside the state of Wisconsin)

Though courses are delivered through different modalities, the program requirements and outcomes are the same for all three tracks.

The **Campus Track** is designed for RNs who reside within traveling distance of UW-Green Bay. Nursing courses are offered in campus classrooms. Courses are “block scheduled” (i.e., each course meets once per week or every other week). General education and support courses can be completed on campus, through UW-Green Bay Adult Degree Programs (online or independent study/Saturday schedule), through UW Colleges (online or on campus), or through UW Independent Learning correspondence courses.

The **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.

The online **BSN@HOME Track**, for RNs who are Wisconsin residents, is available through the combined resources of the nursing programs at the UW campuses in Green Bay, Eau Claire, Madison, Milwaukee, Oshkosh, and Stevens Point. The BSN is awarded by the home institution, in this case UW-Green Bay. All general education and support courses are offered via the internet through UW-Green Bay Adult Degree Programs and the UW Colleges online. BSN@HOME Track students are welcome to take courses on campus.

The online **BSN-LINC/National Track** is designed for RNs who reside outside the state of Wisconsin. Students must have a current RN license from any state in the U.S. for eligibility. Practicum is arranged in the student’s home state. All courses are available via the internet.

Students may study abroad or at other campuses in the United States through UW-Green Bay’s participation in international exchange programs, through National Student Exchange, or through consultation with the Nursing adviser. For more information, contact the Office of International Education (920) 465-2190.

Note: New freshmen and other newcomers to nursing studies who are seeking an all-inclusive path to the Registered Nurse credential and the bachelor’s degree should turn to the “Nursing: Preprofessional” information under the Preprofessional Programs of Study.

For Further Information and Application Materials

If you are interested in furthering your education, marketability, and job satisfaction, visit our website at http://www.uwgb.edu/nursing/ and see what we have to offer. We are also happy to answer your questions through phone or e-mail.

Campus Track / NURSE 1-2-1:
Contact us at nursing@uwgb.edu
920-465-2826 or
Toll-free 888-NSG-UWGB (888-674-8942)
To apply online: https://apply.wisconsin.edu/

Online BSN@HOME Track for Wisconsin residents:
Contact us at nursing@uwgb.edu
920-465-2826 or
Toll-free 888-NSG-UWGB (888-674-8942)

Visit the BSN@HOME website: http://www.bsnathome.com
To apply online: https://apply.wisconsin.edu/

Online BSN-LINC/National Track for RNs outside the state of Wisconsin:
Contact us at bsnlinc@learn.uwsa.edu
Toll-free 877-656-1483
Visit the BSN-LINC National website: http://bsnlinc.wisconsin.edu/
To apply online: http://bsnlinc.wisconsin.edu/howtoapply.asp

- Nursing Major (p. 196)

Susan M Gallagher-Lepak; Professor; Ph.D., University of Wisconsin - Madison*

Sylvia M Kubsch; Associate Professor; PH.D., University of Wisconsin - Milwaukee*

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

Nursing Major

Code	Title	Credits
General Education		18
Fine Arts		
Humanities		
Global Culture		
Ethnic Studies Perspective		
Social Sciences [1]		
Natural Sciences [1]		
Nursing Support		12
Written Communication		
Therapeutic Nursing Intervention Electives		
Statistics		
Speech [1]		
Chemistry [2]		
Critical Thinking Elective [3]		
Lower-Level Nursing [1]		
Upper-Level Nursing		30
Required		
NURSING 407	Foundations of Professional Nursing Practice	
NURSING 441	Chronic Care Management	
NURSING 446/734	Research and Evidence-Based Practice [4]	
NURSING 447/737	Leadership and Management [4]	
NURSING 453/760	Information Management and Healthcare Technology [4]	
NURSING 454	Community Health Nursing	
NURSING 455	Community Health Nursing Practicum	
NURSING 490	Synthesis for Nursing Practice	
Complete 6 credits of NURSING 492, choose two different topics		
NURSING 492	Special Topics in Nursing (Repeatable with different topics)	
Total Credits		60

1 Satisfied by articulation agreements/transfer credits.

2 Chemistry is required beginning September 1, 2007, if no previous college-level chemistry.

[3] Critical thinking elective can be satisfied by certain humanities courses such as philosophy, or taken as a separate course.

[4] 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/course-policy/#Undergraduates%20seeking%20enrollment%20in%20integrated%20programs)

For Further Information and Application Materials
If you are interested in furthering your education, marketability, and job satisfaction, visit our website at http://www.uwgb.edu/nursing/ and see what we have to offer. We are also happy to answer your questions through phone or e-mail.

Campus Track / NURSE 1-2-1:
Contact us at nursing@uwgb.edu
920-465-2826 or
Toll-free 888-NSG-UWGB (888-674-8942)
To apply online: https://apply.wisconsin.edu/

Online BSN@HOME Track for Wisconsin residents:
Contact us at nursing@uwgb.edu
920-465-2826 or
Toll-free 888-NSG-UWGB (888-674-8942)
Visit the BSN@HOME website: http://www.bsnathome.com
To apply online: https://apply.wisconsin.edu/

Online BSN-LINC/National Track for RNs outside the state of Wisconsin:
Contact us at bsnlinc@learn.uwsa.edu
Toll-free 877-656-1483
Visit the BSN-LINC National website: http://bsnlinc.wisconsin.edu/
To apply online: http://bsnlinc.wisconsin.edu/howtoapply.asp

Philosophy

(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. 198)
- Philosophy Minor (p. 199)

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. 198)

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

Christopher P Martin; Associate Professor; Ph.D., Purdue University

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
PHILOS 101	3	PHILOS 213	3
First Year Seminar	3	PHILOS 214	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
Elective	3	Elective	3
	15		15

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
PHILOS 309	3	PHILOS 301	3
PHILOS 1XX or 2XX Philosophy course	3	PHILOS 308	3
General Ed	3	General Ed	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15

			Junior
Fall	**Credits**	**Spring**	**Credits**
PHILOS 401	3	PHILOS 326	3
PHILOS Upper Level Elective	3	Elective	3
General Ed	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15

			Senior
Fall	**Credits**	**Spring**	**Credits**
PHILOS 420	3	PHILOS 403	3
General Ed	3	General Ed	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15

Total Credits: 120

Philosophy Major

Code	**Title**	**Credits**
Supporting Courses		9
PHILOS 213	Ancient Philosophy	
or PHILOS 214	Early Modern Philosophy	
Choose two of the following courses:		
PHILOS 101	Introduction to Philosophy	
PHILOS 102	Contemporary Ethical Issues	

PHILOS 103	Logic and Reasoning	
PHILOS 105	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	
Upper-Level Courses		24
Choose two of the following courses:		
PHILOS 309	Religion and Medieval Philosophy	
PHILOS 323	Modern Philosophy	
PHILOS 324	Contemporary Philosophy	
PHILOS 401	Plato and Aristotle	
Choose two of the following courses:		
PHILOS 301	Ethical Theory	
PHILOS 308	Philosophy and the Sciences	
PHILOS 326	Philosophy, Politics and Law	
PHILOS 420	Metaphysics	
Choose four additional upper-level elective courses from those listed above, including:		
PHILOS 403	Topics in Philosophy	
Total Credits		33

Philosophy Minor

Code	Title	Credits
Supporting Courses		9
PHILOS 213	Ancient Philosophy	
or PHILOS 214	Early Modern Philosophy	
Choose two of the following courses:		
PHILOS 101	Introduction to Philosophy	
PHILOS 102	Contemporary Ethical Issues	
PHILOS 103	Logic and Reasoning	
PHILOS 105	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	
Upper-Level Courses		12
Choose one of the following courses:		
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) [1]	
Choose one of the following courses:		

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) [1]
Choose two additional upper-level elective courses from those listed above.	
Total Credits	21

[1] 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. 200)

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

Paul Erdman; Associate Professor; Ph.D., University of Iowa

Michael Hencheck; Associate Professor; Ph.D., The Ohio State University, chair

William Dirienzo; Assistant Professor; Ph.D., University of Virginia

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

Physics Minor

Code	Title	Credits
Supporting Courses		18
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
PHYSICS 201	Principles of Physics I	
PHYSICS 202	Principles of Physics II	
Upper-Level Courses		12
PHYSICS 310	Modern Physics	
Elective Courses (choose a minimum of 9 credits from the following):		
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	30

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. 202)
- Political Science Minor (p. 203)

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. 201)

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

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

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*

Alise Coen; Assistant Professor; Ph.D., University of Delaware

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.

			Freshman
Fall	**Credits**	**Spring**	**Credits**
POL SCI 101	3	POL SCI 100	3
First Year Seminar	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	15		15

			Sophomore
Fall	**Credits**	**Spring**	**Credits**
POL SCI 202	3	POL SCI 351	3
POL SCI 340	3	PU EN AF 215	3

BUS ADM 216, COMM SCI 205, or MATH 260	4	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	16		15

Junior

Fall	Credits	Spring	Credits
PU EN AF 315	3	POL SCI 316	3
POL SCI 318	3	POL SCI 370	3
POL SCI 320	3	POL SCI Upper Level Elective	3
Elective	3	Elective	3
Elective	3	General Ed	3
	15		15

Senior

Fall	Credits	Spring	Credits
PU EN AF 408	3	POL SCI Upper Level Elective (could include one counting toward Public Adminstration minor)	3
POL SCI Upper Level Elective (could include one counting toward Public Administration minor)	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15

Total Credits: 121

Political Science Major

Code	Title	Credits
Supporting Courses		13
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	
or PU EN AF 215	Introduction to Public Administration	
Choose one of the following:		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics (strongly recommended)	
MATH 260	Introductory Statistics	
Upper-Level Courses		24
Core Courses		
POL SCI 351	Comparative Politics	
POL SCI 340	Political Theory	
or POL SCI 349	American Political Thought	
Choose one of the following:		
POL SCI 360	International Relations	
or POL SCI 370	Foreign and Defense Policies	
Choose one of the following:		
POL SCI 316	Congress: Politics and Policy	
POL SCI 318	Political Behavior	
POL SCI/DJS 320	Constitutional Law	
Choose 12 additional credits from the following list, not taken above:		
DJS 325	Law and Society	
DJS/WOST 348	Gender and the Law	
HISTORY 358	Political History of Modern Latin America	
POL SCI 301/PU EN AF 301	Environmental Politics and Policy	
POL SCI 305/UR RE ST 305	Urban Politics and Policy	

POL SCI 306/PU EN AF 306	Regulatory Policy and Administration
POL SCI 310	The American Presidency
POL SCI 312/UR RE ST 312	Community Politics
POL SCI 314/PU EN AF 314	Administrative Law
POL SCI 316	Congress: Politics and Policy
POL SCI 318	Political Behavior
POL SCI/DJS 320	Constitutional Law
POL SCI/DJS 349	American Political Thought
POL SCI 353	Politics of Developing Areas
POL SCI 360	International Relations
POL SCI 370	Foreign and Defense Policies
POL SCI 380/PU EN AF 380	Global Environmental Politics and Policy
POL SCI 406/PU EN AF 406	State and Local Government
POL SCI 408/PU EN AF 408	Public Policy Analysis
POL SCI 480	Senior Seminar/Capstone in Political Science
POL SCI 497	Internship
POL SCI 498	Independent Study
POL SCI 499	Travel Course
PU EN AF 378	Environmental Law
Total Credits	37

Political Science Minor

Code	Title	Credits
Supporting Courses		6
Choose two of the following:		
POL SCI 100	Global Politics and Society	
POL SCI 101	American Government and Politics	
POL SCI 202/PU EN AF 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
Upper-Level Courses		12
Choose four of the following:		
DJS/WOST 348	Gender and the Law	
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).

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. 206)
- Cultural and Gender Diversity Emphasis (p. 207)
- General Psychology Emphasis (p. 208)
- Mental Health Emphasis (p. 209)

- Psychology Minor (p. 210)

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. 205)

Albert Bugaj; Professor; Ph.D., Purdue University

Illene N Cupit; Professor; Ph.D., Temple University

Regan Gurung; Professor; Ph.D., University of Washington - Seattle

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

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.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
PSYCH 102	3	HUM BIOL 102		3
First Year Seminar	3	Interdisciplinary Minor		3
General Ed	3	General Ed		3
General Ed	3	General Ed		3
General Ed	3	General Ed		3
	15			15
				Sophomore
Fall	**Credits**	**Spring**		**Credits**
COMM SCI 205	4	PSYCH 300		4
PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course	3	PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course		3
Interdisciplinary Minor	3	Interdisciplinary Minor		3
General Ed	3	General Ed		3
General Ed	3	General Ed		3
	16			16
				Junior
Fall	**Credits**	**Spring**		**Credits**
PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course	3	PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course		3
PSYCH 3XX/4XX Elective	3	PSYCH 3XX/4XX Elective		3
Interdisciplinary Minor	3	Interdisciplinary Minor		3
Elective	3	Elective		3
Elective	3	Elective		3
	15			15
				Senior
Fall	**Credits**	**Spring**		**Credits**
PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course	3	PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course		3
PSYCH 495, 496, or 497	3	PSYCH 495, 496, or 497		3
Interdisciplinary Minor	3	Elective		3
Elective	3	Elective		3
Elective	3	Elective		3
	15			15

Total Credits: 122

Psychology Major

This major requires completion of one of the following areas of emphasis:

- Brain, Behavior and Health Emphasis (p. 206)
- Cultural and Gender Diversity Emphasis (p. 207)
- General Psychology Emphasis (p. 208)
- Mental Health Emphasis (p. 209)

Brain, Behavior and Health Emphasis

PSYCHOLOGY Major

Code	Title	Credits
Supporting Courses		10-11
PSYCH 102	Introduction to Psychology	
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
or HUM BIOL 102	Introduction to Human Biology	
Choose one of the following courses:		
BUS ADM 216	Business Statistics (for Business major and minors only)	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
Upper-Level Courses		28
PSYCH 300	Research Methods in Psychology	
Core Courses		
Social/Personality:		
PSYCH 330	Social Psychology	
or PSYCH 429	Theories of Personality	
Developmental (choose one of the following courses):		
HUM DEV 331	Infancy and Early Childhood	
HUM DEV 332	Middle Childhood and Adolescence	
HUM DEV 343	Adulthood and Aging	
Clinical:		
PSYCH 435	Abnormal Psychology	
or PSYCH 438	Counseling and Psychotherapy	
Brain, Behavior, and Health (choose four of the following courses):		
PSYCH 308	Physiological Psychology	
PSYCH 310	Drugs and Behavior	
PSYCH 315	Cognitive Neuroscience	
PSYCH 417	Psychology of Cognitive Processes	
PSYCH 450	Health Psychology	
Elective Course (choose 3 credits from Social/Personality or Clinical that were not taken to fulfill upper-level core requirement) OR select one of the following:		
PSYCH 321	Sport and Performance Psychology	
PSYCH 350	Psychology and Culture	
PSYCH 380	Conservation Psychology	
PSYCH 390	Environmental Psychology	
PSYCH 401	Psychology of Women	
PSYCH 415	Organizational and Personnel Psychology	
PSYCH 420	Psychological Testing	
PSYCH 424	Psychology of Emotion	
PSYCH 430	History and Systems of Psychology	
PSYCH 440	Multicultural Counseling and Mental Health	
PSYCH 460	Clinical Child Psychology	
PSYCH 494	Senior Capstone in Psychology	
PSYCH 497	Internship	

One of the following is encouraged, but does not count toward major requirements:	
PSYCH 478	Honors in the Major
PSYCH 495	Teaching Assistantship
PSYCH 496	Research Assistantship
PSYCH 498	Independent Study
Total Credits	38-39

Cultural and Gender Diversity Emphasis

PSYCHOLOGY Major

Code	Title	Credits
Supporting Courses		10-11
PSYCH 102	Introduction to Psychology	
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
or HUM BIOL 102	Introduction to Human Biology	
Choose one of the following courses:		
BUS ADM 216	Business Statistics (for Business major and minors only)	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
Upper-Level Courses		28
PSYCH 300	Research Methods in Psychology	
Core Courses		
Physiological/Cognitive (choose one of the following courses):		
PSYCH 308	Physiological Psychology	
PSYCH 315	Cognitive Neuroscience	
PSYCH 417	Psychology of Cognitive Processes	
Developmental (choose one of the following courses):		
HUM DEV 331	Infancy and Early Childhood	
HUM DEV 332	Middle Childhood and Adolescence	
HUM DEV 343	Adulthood and Aging	
Clinical:		
PSYCH 435	Abnormal Psychology	
or PSYCH 438	Counseling and Psychotherapy	
Cultural and Gender Diversity		
PSYCH 330	Social Psychology	
PSYCH 350	Psychology and Culture	
PSYCH/WOST 401	Psychology of Women	
PSYCH 440	Multicultural Counseling and Mental Health	
Elective Course (choose 3 credits from Physiological/Cognitive or Clinical that were not taken to fulfill upper-level core requirement) OR select one of the following:		
PSYCH 310	Drugs and Behavior	
PSYCH 321	Sport and Performance Psychology	
PSYCH 380	Conservation Psychology	
PSYCH 390	Environmental Psychology	
PSYCH 415	Organizational and Personnel Psychology	
PSYCH 420	Psychological Testing	
PSYCH 424	Psychology of Emotion	
PSYCH 429	Theories of Personality	
PSYCH 430	History and Systems of Psychology	
PSYCH 450	Health Psychology	
PSYCH 460	Clinical Child Psychology	

PSYCH 494	Senior Capstone in Psychology
PSYCH 497	Internship
One of the following is encouraged, but does not count toward major requirements:	
PSYCH 478	Honors in the Major
PSYCH 495	Teaching Assistantship
PSYCH 496	Research Assistantship
PSYCH 498	Independent Study
Total Credits	38-39

General Psychology Emphasis

PSYCHOLOGY Major

Code	Title	Credits
Supporting Courses		10-11
PSYCH 102	Introduction to Psychology	
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
or HUM BIOL 102	Introduction to Human Biology	
Choose one of the following courses:		
BUS ADM 216	Business Statistics (for Business major and minors only)	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
Upper-Level Courses		28
PSYCH 300	Research Methods in Psychology	
Core Courses		
Physiological/Cognitive (choose one of the following courses):		
PSYCH 308	Physiological Psychology	
PSYCH 315	Cognitive Neuroscience	
PSYCH 417	Psychology of Cognitive Processes	
Social/Personality:		
PSYCH 330	Social Psychology	
or PSYCH 429	Theories of Personality	
Developmental (choose one of the following courses):		
HUM DEV 331	Infancy and Early Childhood	
HUM DEV 332	Middle Childhood and Adolescence	
HUM DEV 343	Adulthood and Aging	
Clinical:		
PSYCH 435	Abnormal Psychology	
or PSYCH 438	Counseling and Psychotherapy	
Elective Courses (choose 12 credits from Physiological/Cognitive, Social/Personality or Clinical core courses (that were not taken to fulfill upper-level core requirement) OR select four of the following:		
PSYCH 310	Drugs and Behavior	
PSYCH 321	Sport and Performance Psychology	
PSYCH 350	Psychology and Culture	
PSYCH 380	Conservation Psychology	
PSYCH 390	Environmental Psychology	
PSYCH/WOST 401	Psychology of Women	
PSYCH 415	Organizational and Personnel Psychology	
PSYCH 420	Psychological Testing	
PSYCH 424	Psychology of Emotion	
PSYCH 430	History and Systems of Psychology	
PSYCH 440	Multicultural Counseling and Mental Health	

PSYCH 450	Health Psychology
PSYCH 460	Clinical Child Psychology
PSYCH 494	Senior Capstone in Psychology
PSYCH 497	Internship
One of the following is encouraged, but does not count toward major requirements:	
PSYCH 478	Honors in the Major
PSYCH 495	Teaching Assistantship
PSYCH 496	Research Assistantship
PSYCH 498	Independent Study
Total Credits	38-39

Mental Health Emphasis

PSYCHOLOGY Major

Code	Title	Credits
Supporting Courses		10-11
PSYCH 102	Introduction to Psychology	
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
or HUM BIOL 102	Introduction to Human Biology	
Choose one of the following courses:		
BUS ADM 216	Business Statistics (for Business major and minors only)	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
Upper-Level Courses		28
PSYCH 300	Research Methods in Psychology	
Core Courses		
Physiological/Cognitive (choose one of the following courses):		
PSYCH 308	Physiological Psychology	
PSYCH 315	Cognitive Neuroscience	
PSYCH 417	Psychology of Cognitive Processes	
Social/Personality:		
PSYCH 330	Social Psychology	
or PSYCH 429	Theories of Personality	
Developmental (choose one of the following courses):		
HUM DEV 331	Infancy and Early Childhood	
HUM DEV 332	Middle Childhood and Adolescence	
HUM DEV 343	Adulthood and Aging	
Mental Health		
PSYCH 420	Psychological Testing	
PSYCH 435	Abnormal Psychology	
PSYCH 438	Counseling and Psychotherapy	
PSYCH 440	Multicultural Counseling and Mental Health	
Elective Course (choose 3 credits from Physiological/Cognitive or Social/Personality that were not taken to fulfill upper-level core requirement) OR select one of the following:		
PSYCH 310	Drugs and Behavior	
PSYCH 321	Sport and Performance Psychology	
PSYCH 350	Psychology and Culture	
PSYCH 380	Conservation Psychology	
PSYCH 390	Environmental Psychology	
PSYCH/WOST 401	Psychology of Women	
PSYCH 415	Organizational and Personnel Psychology	

PSYCH 424	Psychology of Emotion
PSYCH 430	History and Systems of Psychology
PSYCH 450	Health Psychology
PSYCH 460	Clinical Child Psychology
PSYCH 494	Senior Capstone in Psychology
PSYCH 497	Internship
One of the following is encouraged, but does not count toward major requirements:	
PSYCH 478	Honors in the Major
PSYCH 495	Teaching Assistantship
PSYCH 496	Research Assistantship
PSYCH 498	Independent Study
Total Credits	38-39

Psychology Minor

Code	Title	Credits
Supporting Courses		7
PSYCH 102	Introduction to Psychology	
Choose one:		
BUS ADM 216	Business Statistics	
or COMM SCI 205	Social Science Statistics	
or MATH 260	Introductory Statistics	
Upper-Level Courses		18-19
Choose one:		
COMM SCI 301	Foundations for Social Research	
or HUM DEV 302	Developmental Research Methods	
or PSYCH 300	Research Methods in Psychology	
Core courses (choose one from each category):		
Developmental:		
HUM DEV 331	Infancy and Early Childhood	
or HUM DEV 332	Middle Childhood and Adolescence	
or HUM DEV 343	Adulthood and Aging	
Clinical:		
PSYCH 435	Abnormal Psychology	
or PSYCH 438	Counseling and Psychotherapy	
Physiological/Cognitive (choose one from the following courses):		
PSYCH 308	Physiological Psychology	
PSYCH 315	Cognitive Neuroscience	
PSYCH 417	Psychology of Cognitive Processes	
Social/Personality:		
PSYCH 330	Social Psychology	
or PSYCH 429	Theories of Personality	
Elective (choose 3 credits): [1]		
PSYCH 308	Physiological Psychology	
PSYCH 310	Drugs and Behavior	
PSYCH 321	Sport and Performance Psychology	
PSYCH 330	Social Psychology	
PSYCH 350	Psychology and Culture	
PSYCH 380	Conservation Psychology	
PSYCH 390	Environmental Psychology	
PSYCH/WOST 401	Psychology of Women	
PSYCH 415	Organizational and Personnel Psychology	

PSYCH 420	Psychological Testing
PSYCH 424	Psychology of Emotion
PSYCH 429	Theories of Personality
PSYCH 430	History and Systems of Psychology
PSYCH 435	Abnormal Psychology
PSYCH 438	Counseling and Psychotherapy
PSYCH 440	Multicultural Counseling and Mental Health
PSYCH 450	Health Psychology
Total Credits	25-26

[1] 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 is designed to prepare students for challenging careers in public and nonprofit organizations, as well as for further study in graduate programs. Students develop proficiency in organizational management and leadership, public policy analysis, program evaluation, policy development and implementation, budgeting, and governmental processes.

Graduates hold positions as professional administrators, policy analysts, budget specialists, program managers, personnel counselors, governmental affairs directors for businesses, and human resource specialists. Many pursue graduate studies in public administration, law, political science, social services, public policy, and public affairs.

Because of the wide range of course offerings in Public Administration, some students choose to sharpen their managerial skills so they can pursue careers in management within public or non-profit organizations. Other students choose to focus on understanding substantive policy issues (e.g., education, environmental policy, public finance, social justice) and public policy design.

All Public Administration majors engage in both theoretical and applied studies. Many courses include theory as well as problem-focused, applied learning. Students are encouraged to gain these experiences through independent study, community research projects, and an internship program administered by the department. Public Administration majors have completed internships in city, county and state executive offices, as well as non-profit agencies.

The major in Public Administration consists of three sets of requirements: required supporting courses, upper-level core courses, and elective credits within the major. Majors are encouraged to emphasize **public management and policy, nonprofit management**, or **emergency management**. Students who want to focus their study specifically on the nonprofit sector should consider earning the free-standing Nonprofit Management Certificate. A number of courses in emergency management meet the elective requirements of the major and are offered in cooperation with campus Outreach and Adult Access programs; a certificate is available in this area as well. Students are encouraged to seek assistance from a faculty adviser in creating their academic plan.

Considering a Double Major or a Major and a Minor?
Many Public Administration students choose to complete double majors in Political Science, Environmental Policy and Planning, or Economics. A second major complements the Public Administration curriculum, and makes students stronger candidates when seeking careers or entry into graduate programs. Students interested in the arts may want to consider the Arts Management minor.

Not interested in a Public Administration major? A minor in Public Administration fits well with majors in Political Science, Economics, Communication, Environmental Policy and Planning, Urban and Regional Studies, or Democracy and Justice Studies. See a faculty adviser early in your academic career for advice on these options.

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

- Public Administration Major (p. 213)
- Public Administration Minor (p. 214)

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. 212)

Earl R 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

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*

Alise Coen; Assistant Professor; Ph.D., University of Delaware

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.

Freshman

Fall	Credits	Spring	Credits
POL SCI 101	3	PU EN AF 202	3
First Year Seminar	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	15		15

Sophomore

Fall	Credits	Spring	Credits
PU EN AF 215	3	ECON 203	3
BUS ADM 216, COMM SCI 205, or MATH 260	4	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	16		15

Junior

Fall	Credits	Spring	Credits
PU EN AF 315	3	PU EN AF 415	3
PU EN AF 344	3	PU EN AF 428	3
Public Administration Upper Level Elective	3	Public Administration Upper Level Elective	3
General Ed	3	General Ed	3
General Ed	3	General Ed	3
	15		15

Senior

Fall	Credits	Spring	Credits
PU EN AF 408	3	PU EN AF 497	3
PU EN AF 497	3	Public Administration Upper Level Elective	3
Public Administration Upper Level Elective	3	Public Administration Upper Level Elective	3
General Ed	3	General Ed	3

General Ed	3	General Ed	3
	15		15

Total Credits: 121

Public Administration Major

- Public Administration Major (p. 213)

Public Administration

PUBLIC ADMINISTRATION Major

Code	Title	Credits
Supporting Courses		16
POL SCI 101	American Government and Politics	
PU EN AF 202/POL SCI 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
PU EN AF 220	Economics, Politics, and Government Action	
Choose one of the following:		
BUS ADM 216	Business Statistics	
COMM SCI 205	Social Science Statistics	
MATH 260	Introductory Statistics	
Upper-Level Courses		33-34
Required		
PU EN AF 315	Public and Non-Profit Management	
PU EN AF 345	Public and Nonprofit Human Resource and Risk Management	
PU EN AF 408/POL SCI 408	Public Policy Analysis	
PU EN AF 415	Public and Nonprofit Budgeting	
PU EN AF 428	Public and Nonprofit Program Evaluation	
Capstone Experience		
POL SCI 480	Senior Seminar/Capstone in Political Science	
or PU EN AF 430	Seminar in Ethics and Public Action	
Upper Level Electives		
Analytic Methods-choose one of the following (3-4 credits):		
POL SCI 318	Political Behavior	
PU EN AF 350/GEOG 350	GIS in Public and Environmental Policy	
PU EN AF 453	Cost Benefit Analysis	
Public Policy/ Administration (choose two of the following courses - 6 credits):		
POL SCI 305	Urban Politics and Policy	
POL SCI 316	Congress: Politics and Policy	
POL SCI 370	Foreign and Defense Policies	
PU EN AF 301	Environmental Politics and Policy	
PU EN AF 305	Natural Resources Economic Policy	
PU EN AF 306	Regulatory Policy and Administration	
PU EN AF 314/POL SCI 314	Administrative Law	
PU EN AF 378	Environmental Law	
PU EN AF 379	Natural Resources Policy, Law, and Administration	
PU EN AF 380	Global Environmental Politics and Policy	
PU EN AF 406	State and Local Government	
PU EN AF 497	Internship [1]	
PU EN AF 498	Independent Study [1]	
Nonprofit Management (choose two of the following courses - 6 credits):		
ARTS MGT 354	Managing Arts and Cultural Organizations	

BUS ADM 322	Introductory Marketing
BUS ADM 389	Organizational Behavior
PU EN AF 324	Transitioning to Sustainable Communities
PU EN AF 425	Fundraising and Marketing for Nonprofits
PU EN AF 426	Strategic Philanthropy: Civic Engagement Through Giving
PU EN AF 497	Internship [1]
PU EN AF 498	Independent Study [1]
Total Credits	49-50

[1] PU EN AF 497 and PU EN AF 498 can each only be completed for 3 credits and used once to satisfy a major requirement in Public Policy or Nonprofit Management area of upper level requirements. A 2.75 GPA is required for internship participation.

Public Administration Minor

Code	Title	Credits
Supporting Courses		9
POL SCI 101	American Government and Politics	
PU EN AF 202/POL SCI 202	Introduction to Public Policy	
PU EN AF 215	Introduction to Public Administration	
Upper-Level Courses		15
Required course:		
PU EN AF 315	Public and Non-Profit Management	
Choose two of the following:		
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	
Choose two electives from the following:		
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 345	Public and Nonprofit 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) [1]	
Total Credits		24

[1] 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.

[1] 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 AODA Emphasis (http://catalog.uwgb.edu/undergraduate/programs/social-work/major/aoda)
- Social Work Child Welfare Emphasis (p. 216)
- Social Work General Emphasis (p. 217)

Tohoro F Akakpo; Associate Professor; Ph.D., Michigan State 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*

Joan M Groessl; Assistant Professor; Ph.D., Marian University*

Stephanie Rhee; Assistant Professor; Ph.D.

Dana Johnson; Lecturer; M.S.W., University of Wisconsin - Milwaukee

Margaret Kubek; Lecturer; M.S., University of Wisconsin - Milwaukee

Terrance Mapes; Lecturer; M.S., University of Wisconsin-Madison

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 AODA Emphasis (http://catalog.uwgb.edu/undergraduate/programs/social-work/major/aoda)
- Social Work Child Welfare Emphasis (p. 216)
- Social Work General Emphasis (p. 217)

Child Welfare Emphasis

SOCIAL WORK Major

Code	Title	Credits
Supporting Courses		34-37
ENG COMP 105	English Composition II: Composition and Rhetoric (Satisfied for students with an ACT English score of 32 or higher)	
HUM DEV 102	Introduction to Human Development	
SOC WORK 275	Foundations of Social Welfare Policy	
Family (choose one course):		
ANTHRO 304	Family, Kin, and Community	
HUM DEV 353	Family Development	
SOCIOL 308	Sociology of the Family	
SOC WORK 375	Family Principles and Patterns	
Statistics (choose one course):		
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	
HUM BIOL/WOST 324	The Biology of Women	
HUM DEV 331	Infancy and Early Childhood [2]	
HUM DEV 332	Middle Childhood and Adolescence [2]	
HUM DEV/WOST 336	Gender Development Across the Lifespan	
HUM DEV 342	Cross Cultural Human Development	
HUM DEV 343	Adulthood and Aging	
HUM DEV 346	Culture, Development and Health	
PSYCH/WOST 401	Psychology of Women	
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 [1]	
FNS 226	Introduction to First Nations Studies: Social Justice	
FNS/WOST 360	Women and Gender in First Nations Communities	
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	
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 202	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. [1]		
Upper-Level Courses		38
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 [3]	
SOC WORK 403	Field Practicum II [3]	
SOC WORK 411	Social Work Methods II	
SOC WORK 413	Social Work Skills Lab III	
SOC WORK 420	Social Work Methods III	
SOC WORK 423	Social Work Skills Lab IV	
SOC WORK 431	Social Policy Analysis I	
SOC WORK 433	Social Policy Analysis II	
SOC WORK 461	Program Evaluation I	
SOC WORK 463	Program Evaluation II	
Required Courses for the Emphasis [2]		12
HUM DEV 331	Infancy and Early Childhood	
HUM DEV 332	Middle Childhood and Adolescence	
SOC WORK 351	Overview of the Child Welfare System	
SOC WORK 451	Child Welfare Practice	
Total Credits		84-87

1 See General Education Program - Biological Sciences (p. 35)

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.

General Emphasis

SOCIAL WORK Major

Code	Title	Credits
Supporting Courses		34-37
ENG COMP 105	English Composition II: Composition and Rhetoric (Satisfied for students with an ACT English score of 32 or higher)	
HUM DEV 102	Introduction to Human Development	

SOC WORK 275	Foundations of Social Welfare Policy
Family (choose one course):	
ANTHRO 304	Family, Kin, and Community
HUM DEV 353	Family Development
SOCIOL 308	Sociology of the Family
SOC WORK 375	Family Principles and Patterns
Statistics (choose one course):	
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
HUM BIOL/WOST 324	The Biology of Women
HUM DEV 331	Infancy and Early Childhood [2]
HUM DEV 332	Middle Childhood and Adolescence [2]
HUM DEV/WOST 336	Gender Development Across the Lifespan
HUM DEV 342	Cross Cultural Human Development
HUM DEV 343	Adulthood and Aging
HUM DEV 346	Culture, Development and Health
PSYCH/WOST 401	Psychology of Women
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 [1]
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 202	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. [4]		
Upper-Level Courses		38
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 [3]	
SOC WORK 403	Field Practicum II [3]	
SOC WORK 411	Social Work Methods II	
SOC WORK 413	Social Work Skills Lab III	
SOC WORK 420	Social Work Methods III	
SOC WORK 423	Social Work Skills Lab IV	
SOC WORK 431	Social Policy Analysis I	
SOC WORK 433	Social Policy Analysis II	
SOC WORK 461	Program Evaluation I	
SOC WORK 463	Program Evaluation II	
Total Credits		72-75

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. 35)

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, crime and punishment, gender, race and ethnicity, social class and status, and power.

Sociology students 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 will provide additional breadth of perspective for students with majors in Democracy and Justice Studies, Human Development, Public and Environmental Affairs, and Business Administration. It also provides good preparation for students going on to graduate work in programs such as sociology, social work, history, urban studies, and other social science programs.

- Sociology Minor (p. 219)

Earl R 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
Supporting Courses		7
SOCIOL 202	Introduction to Sociology	
COMM SCI 205	Social Science Statistics	

or MATH 260	Introductory Statistics	
Upper-Level Courses		12
COMM SCI 301	Foundations for Social Research	
SOCIOL 307	Social Theory	
Choose two of the following Elective courses:		
DJS 362	Power and Change in America	
SOCIOL 303	Race and Ethnic Relations	
SOCIOL 310/UR RE ST 310	Urban Sociology	
SOCIOL 315	Street Gangs in America	
SOCIOL 320	Sociology of Religion	
SOCIOL 321	Topics in Sociology	
SOCIOL 404	Criminology	
SOCIOL 498	Independent Study	
UR RE ST 314	Suburbs	
Total Credits		19

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. 222)
- Emphasis for Students Seeking Teaching Certification (p. 221)

This minor requires completion of one of the following areas of emphasis:

- Spanish and Latin American Studies Emphasis (p. 224)
- Spanish and Latin American Studies Emphasis for Students Seeking Teaching Certification (p. 223)

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 (http://catalog.uwgb.edu/undergraduate/programs/spanish/cg)

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. 222)
- Spanish and Latin American Studies Emphasis for Students Seeking Teaching Certification (p. 221)

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/tepdl/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
Supporting Courses		6
SPANISH 225	Composition and Conversation I	
SPANISH 226	Composition and Conversation II	
Upper-Level Courses		27
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	
Choose 6 credits of the following courses:		
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) [1]	
SPANISH 465	Special Topics [1]	
SPANISH 485	Study Abroad:Spain and Latin America	
SPANISH 498	Independent Study	
SPANISH 499	Travel Course	
Total Credits		33

[1] Some upper-level courses are repeatable for credit when topic varies.

General Emphasis

SPANISH AND LATIN AMERICAN STUDIES Major

Code	Title	Credits
Supporting Courses		6
SPANISH 225	Composition and Conversation I	
SPANISH 226	Composition and Conversation II	
Upper-Level Courses		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) [1]	
SPANISH 358	Latin America Today	
or SPANISH 359	The Cultures of the Americas	
SPANISH 360	Spain Today	
or SPANISH 361	The Cultures of Spain	
Elective Courses (choose 6 credits of the following):		
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 [1]
SPANISH 485	Study Abroad:Spain and Latin America
SPANISH 498	Independent Study
SPANISH 499	Travel Course
Total Credits	30

[1] 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. 224)
- Emphasis for Students Seeking Teaching Certification (p. 223)

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
Supporting Courses		6
SPANISH 225	Composition and Conversation I	
SPANISH 226	Composition and Conversation II	
Upper-Level Courses		18
EDUC 311	Teaching Foreign Languages	
SPANISH 328	Introduction to Cultural Studies in Spanish	
SPANISH 329	Representative Spanish and Latin American Authors	
SPANISH 345	Advanced Spanish Grammar	
SPANISH 372	Spanish Phonetics	
Choose 3 credits of the following courses:		
SPANISH 357	Cultura Latina	
SPANISH 358	Latin America Today	
SPANISH 359	The Cultures of the Americas	
SPANISH 360	Spain Today	
SPANISH 361	The Cultures of Spain	
SPANISH 465	Special Topics [1]	
SPANISH 485	Study Abroad:Spain and Latin America	
Total Credits		24

[1] Some upper-level courses are repeatable for credit when topic varies.

General Emphasis

SPANISH AND LATIN AMERICAN STUDIES Minor

Code	Title	Credits
Supporting Courses		6
SPANISH 225	Composition and Conversation I	
SPANISH 226	Composition and Conversation II	
Upper-Level Courses		12
SPANISH 328	Introduction to Cultural Studies in Spanish	
SPANISH 329	Representative Spanish and Latin American Authors	
Choose 3 credits of the following courses:		
SPANISH 358	Latin America Today	
SPANISH 359	The Cultures of the Americas	
SPANISH 360	Spain Today	
SPANISH 361	The Cultures of Spain	
Choose 3 credits of the following courses:		
SPANISH 345	Advanced Spanish Grammar	
SPANISH 351	Major Spanish and Latin American Fiction	
SPANISH 355	Spanish and Latin American Cinema	
SPANISH 357	Cultura Latina	
SPANISH 358	Latin America Today	
SPANISH 359	The Cultures of the Americas	
SPANISH 360	Spain Today	
SPANISH 361	The Cultures of Spain	
SPANISH 372	Spanish Phonetics	
SPANISH 465	Special Topics [1]	
SPANISH 499	Travel Course	
Total Credits		18

[1] 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:

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

Each emphasis provides a rigorous artistic/academic environment for the study and production of all forms of theatre. Techniques learned in the classroom are applied in production work giving students an abundance of practical experience. Each year a combination of classic, modern, experimental, musical theatre and dance pieces are selected to give students a diverse background in dramatic literature and styles.

The interdisciplinary focus of the University is an ideal setting for the highly collaborative study and practice of theatre. Many of our productions involve collaborations with University academic programs and student or community organizations.

Theatre faculty members at UW-Green Bay believe that the best way to learn theatre is to create theatre. Students are encouraged to participate in the five mainstage (faculty or guest artist directed and designed) productions each year. Studio (student directed and designed) productions provide additional opportunities for involvement. University Theatre production work is open to all students and practicum credit is available for work on mainstage productions. The Theatre program is an active participant in the Kennedy Center's American College Theatre Festiva (http://www.kcactf.org/KCACTF.ORG_NATIONAL/KCACTF.html)l, 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 and dance studios with new sprung floor, a CADD & Sound Design lab with Plotter and well equipped scene and costume shops. Two of our Mainstage Productions each year are performed in our 100-seat Jean Weidner Theatre at The Weidner Center for the Performing Arts. We also produce occasional musicals or children's shows in the 2,000-seat Cofrin Family Hall at the Weidner Center.

Students receive quality training from working professionals enhanced by guest artists, master classes, and a biannual travel course to Broadway. Alternate Theatre, the student theatre organization, sponsors trips to regional theatres, and on-campus or local seminars and workshops. Additionally we offer many Theatre and Dance student scholarships each year for our students.

UW-Green Bay Theatre graduates typically pursue internships and jobs in the entertainment industry. Students are encouraged to pursue such opportunities in the summers before graduation and advanced course work in audition and portfolio prepares them for the competitive challenges ahead.

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.

Objectives

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 leaders in other fields. Some examples where you can find UW Green Bay Theatre and Dance graduates - **Steppenwolf Theatre Company, Goodman Theatre, Lookingglass Theatre, 5th Avenue Playhouse, Seattle Repertory Theatre, Guthrie Theatre, Alley Theatre, Oregon Shakespeare Festival Theatre, Dreamworks, Broadway and National and International tours, Lighting and Sound and Film and Television industry, and professional improvisation (Fameless) and production work, and University Faculty positions around the country. UW Green Bay Theatre and Dance graduates are well prepared for their professional futures.**

Area of Emphasis

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

- Design/Technical Theatre (p. 229)
- Musical Theatre (p. 231)
- Performance (p. 232)
- Theatre Studies (p. 233)

- Dance Minor (p. 226)
- Theatre Studies Minor (p. 234)

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

John E Mariano; Associate Professor; M.F.A., Ohio University

Rebecca Stone-Thornberry; Associate Professor; Ph.D., University of Colorado

Thomas Campbell; Assistant Professor; Ph.D., Southern Illinois University

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. 227)
- Theatre Major with Emphasis in Performance; Minor in Humanistic Studies (p. 228)
- Theatre Major with Emphasis in Theatre Studies; Minor in Humanistic Studies (p. 228)

Dance Minor

Code	Title	Credits
Supporting Courses		13
THEATRE 110	Introduction to Theatre Arts	
THEATRE 128	Jazz Dance I	
THEATRE 137	Ballet I	
THEATRE 141	Period Dance Styles	
THEATRE 145	Modern Dance I	
THEATRE 161	Tap Dance I	
Electives (choose 5 credits):		
THEATRE 131	Acting I	
THEATRE 220	Stage Management	
THEATRE 228	Jazz Dance II	
THEATRE 261	Tap Dance II	
Upper-Level Courses		10
THEATRE 340	Dance History	
THEATRE 372	American Musical Theatre Dance	
THEATRE 440	Choreography	
Electives (choose 3 credits)		
THEATRE 323	Stage Lighting	
THEATRE 325	Stage Makeup	
THEATRE 328	Jazz Dance III	
THEATRE 335	Production Practicum: Crews	
THEATRE 336	Production Practicum: Performance	
THEATRE 338	Production Practicum: Scene Shop	

THEATRE 339	Production Practicum: Costume Shop
THEATRE 361	Tap Dance III
Total Credits	23

Theatre 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. 227)
- Theatre Major with Emphasis in Performance; Minor in Humanities (p. 228)
- Theatre Major with Emphasis in Theatre Studies; Minor in Humanities (p. 228)

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.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
HUM BIOL 102	3	ART 105		3
THEATRE 110	3	HUM STUD 101, 103, or 201		3
THEATRE 220	3	THEATRE 128 or 161		1
THEATRE 221	4	THEATRE 222		4
First Year Seminar	3	THEATRE 323		3
		THEATRE 338		1
	16			15
				Sophomore
Fall	**Credits**	**Spring**		**Credits**
ART 107	3	DESIGN 131		3
THEATRE 131	3	THEATRE 224		3
THEATRE 223	3	THEATRE 335		1
THEATRE 338	1	THEATRE 339		1
Performance Elective	1-2	Performance Elective		1-2
General Ed	3	General Ed		3
		General Ed		3
	14-15			15-16
				Junior
Fall	**Credits**	**Spring**		**Credits**
DESIGN 231	3	THEATRE 231		3
THEATRE 309, 310, or 311	3	THEATRE 309, 310, or 311		3
THEATRE 335 (Or any other Production Practicum)	1	THEATRE 322		3
THEATRE 351	3	THEATRE 339		1
General Ed	3	Design Arts Upper Level Elective		3
General Ed	3	General Ed		3
	16			16
				Senior
Fall	**Credits**	**Spring**		**Credits**
DESIGN 332	3	THEATRE 498		3
THEATRE 309, 310, or 311	3	Design Arts Upper Level Elective		3
THEATRE 321	4	Theatre Upper Level Elective		3
General Ed	3	General Ed (Capstone Experience)		3
General Ed	3	General Ed		3
	16			15

Total Credits: 123-125

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.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
HUM BIOL 102	3	ENG COMP 105		3
THEATRE 110	3	THEATRE 161		1
THEATRE 128	1	THEATRE 222		4
THEATRE 131	3	THEATRE 231		3
THEATRE 233	3	THEATRE 338		1
THEATRE 338	1	General Ed		3
First Year Seminar	3			
	17			15

				Sophomore
Fall	**Credits**	**Spring**		**Credits**
HUM STUD 101	3	HUM STUD 102		3
HUM STUD 201	3	THEATRE 145		1
THEATRE 137	1	THEATRE 331		3
THEATRE 221	4	THEATRE 331		3
THEATRE 338	1	THEATRE 339		1
THEATRE 351	3	General Ed		3
General Ed	3	General Ed		3
	18			17

				Junior
Fall	**Credits**	**Spring**		**Credits**
THEATRE 305	3	THEATRE 309, 310, or 311		3
THEATRE 309, 310, or 311	3	THEATRE 331		3
THEATRE 336	1	THEATRE 336 (Other Production Practicum Courses are also an option)		1
Theatre Upper Level Elective	3	Dance Elective		1
Humanistic Studies Perspective Course	3	Humanistic Studies Perspective Course		3
General Ed	3	General Ed		3
	16			14

				Senior
Fall	**Credits**	**Spring**		**Credits**
THEATRE 309, 310, or 311	3	THEATRE 336		1
Dance Elective	1	Dance Elective		1
Humanistic Studies Upper Level Elective	3	Humanistic Studies Upper Level Elective		3
General Ed	3	Theatre Upper Level Elective		3
General Ed (Capstone Experience possible)	3	General Ed (Capstone Experience Possible)		3
Elective	3	General Ed		3
	16			14

Total Credits: 127

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.

				Freshman
Fall	**Credits**	**Spring**		**Credits**
HUM BIOL 102	3	ENG COMP 105		3
THEATRE 110	3	THEATRE 128		1
THEATRE 131	3	THEATRE 339		1

THEATRE 222	4	HUM STUD 101	3
THEATRE 338	1	General Ed	3
First Year Seminar	3	General Ed	3
	17		14

Sophomore

Fall	Credits	Spring	Credits
THEATRE 161	1	THEATRE 137	1
THEATRE 220	3	THEATRE 231	3
THEATRE 221	4	THEATRE 339	1
THEATRE 338	1	HUM STUD 102	3
THEATRE 351	3	General Ed	3
General Ed	3	General Ed	3
Elective	3		
	18		14

Junior

Fall	Credits	Spring	Credits
THEATRE 309, 310, or 311	3	THEATRE 309, 310, or 311	3
THEATRE 3XX Theatre Design Elective	3	THEATRE 336	1
Humanistic Studies Perspective Course	3	Theatre Upper Level Elective	3
General Ed	3	Humanistic Studies Perspectives Course	3
Elective	3	General Ed	3
		Elective	3
	15		16

Senior

Fall	Credits	Spring	Credits
THEATRE 309, 310, or 311	3	HUM STUD 480	3
THEATRE 335	1	THEATRE 335	1
Theatre Upper Level Elective	3	Theatre Upper Level Elective	3
Humanistic Studies Upper Level Elective	3	General Ed	3
General Ed	3	General Ed - Capstone Experience	3
General Ed	3	Elective	3
	16		16

Total Credits: 126

Theatre Major

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

- Design/Technical Theatre (p. 229)
- Musical Theatre (p. 231)
- Performance (p. 232)
- Theatre Studies (p. 233)

Design/Technical Theatre Emphasis

THEATRE Major

Code	Title	Credits
Supporting Courses		25
Design/Technical Theatre		
THEATRE 220	Stage Management	
THEATRE 221	Stagecraft	
THEATRE 222	Costume Technology	
THEATRE 223	Computer Applications for Theatre	
THEATRE 224	Introduction to Theatre Design	
Acting Core		

THEATRE 131	Acting I	
Dance Core (choose one of the following):		
THEATRE 128	Jazz Dance I	
THEATRE 137	Ballet I	
THEATRE 145	Modern Dance I	
THEATRE 161	Tap Dance I	
Performance Elective (choose 4 credits):		
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	
Upper-Level Courses		31
Design/technical theatre/directing		
THEATRE 321	Scene Design	
THEATRE 322	Costume Design	
THEATRE 323	Stage Lighting	
THEATRE 351	Directing I	
History/Literature		
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	
Shop practicum (choose 4 credits):		
THEATRE 338	Production Practicum: Scene Shop (may be repeated)	
THEATRE 339	Production Practicum: Costume Shop (may be repeated)	
Theatre practicum (choose 2 courses):		
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	
Electives (choose 3 credits):		
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
Supporting Courses		35
Music Core		
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 151	Music Theory I	
Elementary Voice		
MUS APP 45	Elementary Voice I	
Chorus or Choir (choose 1 course):		
MUS ENS 261	University Singers	
or MUS ENS 262	Concert Choir	
Music Ensemble (choose 1 course):		
MUS ENS 163	Chamber Singers	
or MUS ENS 165	Vocal Jazz Ensemble	
or MUS ENS 166	Opera Workshop	
or MUS ENS 261	University Singers	
or MUS ENS 262	Concert Choir	
Keyboard Proficiency (choose 2 credits):		
MUS APP 11	Keyboard Musicianship I	
MUS APP 21	Keyboard Musicianship II	
MUS APP 31	Keyboard Musicianship III	
MUS APP 41	Keyboard Musicianship IV	
Acting/Voice Core		
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.)	
Dance Core		
THEATRE 128	Jazz Dance I	
THEATRE 161	Tap Dance I	
THEATRE 228	Jazz Dance II	
THEATRE 261	Tap Dance II	
Dance Elective (choose 1 course):		
THEATRE 137	Ballet I	
or THEATRE 141	Period Dance Styles	
Technical Theatre Core		
THEATRE 221	Stagecraft	
THEATRE 222	Costume Technology	
Upper-Level Courses		29
Acting/Voice/Directing		
THEATRE 305	Audition Techniques for the Actor	
THEATRE 351	Directing I	
THEATRE 390	Advanced Applied Musical Theatre Voice (4 cr.)	
Dance		
THEATRE 328	Jazz Dance III	
THEATRE 361	Tap Dance III	
THEATRE 440	Choreography	
THEATRE 372	American Musical Theatre Dance	

Theatre History/Literature	
THEATRE 309	Theatre History I:Greek to Elizabethan
or THEATRE 310	Theatre History II: 17th Century to Realism
THEATRE 311	Theatre History III: 20th Century and Contemporary
THEATRE/MUSIC 364	Musical Theatre History
Shop Practicum	
Select four credits from the following:	
THEATRE 338	Production Practicum: Scene Shop (may be repeated)
THEATRE 339	Production Practicum: Costume Shop (may be repeated)
Total Credits	64

Performance Emphasis

THEATRE Major

Code	Title	Credits
Supporting Courses		24
Acting Core		
THEATRE 131	Acting I	
THEATRE 231	Acting II	
THEATRE 233	Voice for the Actor I	
Technical Theatre		
THEATRE 221	Stagecraft	
THEATRE 222	Costume Technology	
Dance Core		
THEATRE 128	Jazz Dance I	
THEATRE 137	Ballet I	
THEATRE 145	Modern Dance I	
THEATRE 161	Tap Dance I	
Dance Electives (choose 3 credits):		
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	
Upper-Level Courses		30
History/Literature		
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	
Acting/Directing		
THEATRE 305	Audition Techniques for the Actor	
THEATRE 331	Acting III	
THEATRE 351	Directing I	
Shop Practicum (choose 4 credits from the following):		
THEATRE 338	Production Practicum: Scene Shop (may be repeated)	
THEATRE 339	Production Practicum: Costume Shop (may be repeated)	
Theatre Practicum (choose 2 of the following):		
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
Electives (choose 6 credits from the following):	
THEATRE 325	Stage Makeup
THEATRE 333	Voice for the Actor II
THEATRE 352	Directing II
Any 300 or 400 level THEATRE course	
Total Credits	54

Theatre Studies Emphasis

THEATRE Major

Code	Title	Credits
Supporting Courses		23
THEATRE 131	Acting I	
THEATRE 220	Stage Management	
THEATRE 221	Stagecraft	
THEATRE 222	Costume Technology	
THEATRE 231	Acting II	
Dance core (3 credits required):		
THEATRE 128	Jazz Dance I	
THEATRE 137	Ballet I	
THEATRE 141	Period Dance Styles	
THEATRE 145	Modern Dance I	
THEATRE 161	Tap Dance I	
Elective (choose 3 credits:):		
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	
Upper-Level Courses		27
History/Literature		
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	
Directing		
THEATRE 351	Directing I	
Shop Practicum (4 credits required):		
THEATRE 338	Production Practicum: Scene Shop (may be repeated)	
THEATRE 339	Production Practicum: Costume Shop (may be repeated)	
Theatre Practicum (choose 2 courses):		
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
Design/technical theatre (choose one course):	
THEATRE 323	Stage Lighting
THEATRE 325	Stage Makeup
THEATRE 421	Scene Painting
THEATRE 422	Costume Crafts
THEATRE 426	Sound for Theatre
Electives	
Select six credits from any 300 or 400 level THEATRE courses	
Total Credits	50

Theatre Minor

- Dance Minor (p. 226)
- Theatre Studies Minor (p. 234)

Theatre Studies Minor

Code	Title	Credits
Supporting Courses		11
Acting and Technical		
THEATRE 131	Acting I	
THEATRE 221	Stagecraft	
THEATRE 222	Costume Technology	
Upper-Level Courses		13
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

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. 235)

Illene N Cupit; Professor; Ph.D., Temple University

Heidi S Fencl; 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

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

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

Women's and Gender Studies Minor

Code	Title	Credits
Supporting Courses		3
DJS/WOST 241	Introduction to Women's & Gender Studies	
Upper-Level Courses		15
Choose 2 of the following courses to satisfy Core Course requirements:		
DJS/WOST 437	Feminist Theory	
HISTORY/WOST 380	U.S. Women's History	
HUM DEV/WOST 336	Gender Development Across the Lifespan	
Choose 3 courses from the list below or the remaining unused course from the list above: [1]		
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	

WOST 497	Internship
WOST 498	Independent Study
Total Credits	18

[1] If DJS 437 or WOST 437, HISTORY 380 or WOST 380, HUM DEV 336 or WOST 336 are selected and used to satisfy the two core course requirement, only the the single course left can be used to satisfy one of the elective course requirement.
Example student completes 437 and 380, they can then use 336 for their elective.

Preprofessional Programs

‘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) at 920-465-2362.

D

- Dietetics (p. 237)

E

- Engineering (p. 237)

H

- Health Sciences (p. 238)

L

- Law (p. 239)

M

- Military Science (p. 239)

N

- Nursing (p. 240)

P

- Pharmacy (p. 240)

V

- Veterinary Medicine (p. 240)

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. 152).

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
Suggested Courses		
CHEM 211	Principles of Chemistry I	4
CHEM 212	Principles of Chemistry II	4
CHEM 213	Principles of Chemistry I Laboratory	1
CHEM 214	Principles of Chemistry II Laboratory	1
ENG COMP 100	English Composition I: College Writing	3
ENGR 213	Mechanics I	3
ENGR 214	Mechanics II	3
ENGR 301	Engineering Materials	4
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		45

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).

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; 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 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.

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).

Undergraduate Course Descriptions

Accounting (ACCTG)

Courses

ACCTG 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

ACCTG 300. 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 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 300 with at least a "B" grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5
Fall and Spring.

ACCTG 302. 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 300 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5
Fall and Spring.

ACCTG 303. Seminar in Accounting Professionalism. 2 Credits.
Seminar in Accounting Professionalism is designed to familiarize prospective accounting majors with their profession. Topics will include various career paths in accounting, professional demeanor, and professional ethics.
P: Acctg 300 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5
Fall Only.

ACCTG 312. Managerial Accounting II. 3 Credits.
Expands and broadens the concepts and methods presented in Acctg 302. Job order, process, and joint product costing systems, ABC costing, standard costing, budgeting, JIT and cost estimation. Significant exposure to current issues and practices. Writing skills emphasized.
P: Acctg 302 with at least a B grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Bus Adm 216 or Math 260 or Comm Sci 205.
Fall Only.

ACCTG 313. 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 300; Acctg 301 with at least a C grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5
Fall and Spring.

ACCTG 410. Introduction to Income Tax Theory and Practice. 3 Credits.
Federal income taxation, especially tax rules and the determination of taxable income for individuals. Topics include: exclusions, deductions, passive activity losses, property transactions, nontaxable exchanges, capital gains and losses.
P: Acctg 300; Acctg 301 with at least a C grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Bus Adm 305.
Fall Only.

ACCTG 411. 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 302 with at least a B grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5
Fall Only.

ACCTG 412. Auditing Standards and Procedures. 4 Credits.
Audit standards, professional ethics, legal liability of auditors; audit procedures relating to assets, liabilities, equity, revenue and expense accounts; review of computer applications in auditing, statistical sampling and internal auditing.
P: Acctg 313 and 411 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5
Spring.

ACCTG 413. VITA. 3 Credits.
Students will work in the community to prepare tax returns for students, low income individuals and families, and the elderly.
P: Acctg 300 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Acctg 410
Spring.

ACCTG 414. 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 302 with at least a B grade and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5 REC: 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.
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.
P: Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5
Fall and Spring.

ACCTG 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Anthropology (ANTHRO)

Courses

ANTHRO 100. Varieties of World Culture. 3 Credits.
The variety of ways of life that exist in the world and the concepts of culture, cultural relativity, and ethnocentrism. Representative case studies of world cultures are considered.
Fall and Spring.

ANTHRO 304. Family, Kin, and Community. 3 Credits.
A cross-cultural comparison of the form and function of such social institutions as marriage and the family; age, sex and kin groups; task groups; caste and class.
P: Junior standing REC: Anthro 100
Fall Only.

ANTHRO 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 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.

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 243. Introduction to Photography. 3 Credits.
The creative process in photography is studied to develop visual perception and photographic design ability through active participation, photographic exercises, and discussions analyzing student work. Camera is required for course. Option 1: Digital SLR camera with viewfinder, interchangeable lenses, ability to manually adjust focus, aperture, shutter speed and white balance. Option 2: 35mm) film camera with the ability to function in all manual mode.
P: none; REC: Art 105, 106 and 107.
Fall and Spring.

ART 250. Introduction to Fibers/Textiles. 3 Credits.
An introductory overview of the field of textiles and fiber arts. Students will learn basic processes as well as some of the intellectual, philosophical and historical considerations specific to the study of art cloth, fiber sculpture, textile construction, and embellishment.
P: none; REC: Art 105, 106 and 107.
Fall and Spring.

ART 260. Introduction to Jewelry/Metals. 3 Credits.
Designing and creating jewelry projects using varied metal techniques, processes and metal media; forming, shaping and designing of jewelry.
P: none; REC: Art 105, 106 and 107.
Fall and Spring.

ART 270. Introduction to Printmaking. 3 Credits.
Concept development as it integrates with the exploration of various printmaking media such as relief, monoprint, collagraph, and intaglio.
P: Art 105; REC: Art 106 and 107.
Spring.

ART 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

ART 302. Intermediate Drawing. 3 Credits.
Investigation of drawing processes and structures in two-dimensional media; includes drawing the human figure; drawing techniques in black, white, and color media.
P: Art 105, 106 and 107.
Fall 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 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 identify, 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 recriprocal 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 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 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 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 Biol 102, OR grade of C or better in Biology 203 AND Biology 202 or concurrent enrollment.
Fall and Spring.

BIOLOGY 202. Principles of Biology Lab: Cellular and Molecular Processes. 1 Credit.
This lab course offers an introduction to the biology of organisms at the molecular and cellular level. Labs will focus on the chemical, genetic, and microscopic properties shared by cells. This is a beginning biology course for students who wish to major in Biology, Human Biology or Environmental Science.
P: Chem 207 or conc enr AND ACT Science Score of 24 or greater, OR grade of C or better in Hum Biol 102, OR grade of C or better in Biology 203 & BIOLOGY 201 or concurrent enrollment
Fall and Spring.

BIOLOGY 203. Principles of Biology: Organisms, Ecology, and Evolution. 3 Credits.
Survey of the evolution and diversity of life, with focus on general biological principles, anatomy and physiology, and consideration of interactions from the cellular to organismal level.
P: Biology 204 or concurrent enrollment.
Fall and Spring.

BIOLOGY 204. Principles of Biology Lab: Organisms, Ecology, and Evolution. 1 Credit.
Hands-on laboratory reinforcing material covered in Biology 203. Laboratory activities explore the structure of seed plants, comparative morphology of animal phyla, dichotomous taxonomic keys, phylogeny, and experimental approaches to plant and animal physiology. This writing emphasis course covers the process and techniques of scientific writing.
P: BIOLOGY 203 or concurrent enrollment.
Fall and Spring.

BIOLOGY 298. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript. 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

BIOLOGY 302. Principles of Microbiology. 4 Credits.
Microorganisms and their activities; their form, structure, reproduction, physiology, metabolism, and identification; their distribution in nature and their relationship to each other and other living things.
P: Biology 201/202 with at least a C grade AND 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; Math 260 with at least a C grade.
Fall and Spring.

BIOLOGY 308. Cell Biology Laboratory. 1 Credit.
A laboratory course examining the microscopic, biochemical and molecular approaches used to investigate cellular structure and function.
P: Biology 202 with at least a C grade; AND Chem 108 or 212 with at least a C grade; AND MATH 260 with at least a C grade; AND Biology 307 with at least a C grade or conc enr; AND 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.
P: Biology 201/202 with at least a C grade, and Biology 203/204 with at least a C grade. REC: Env Sci 302
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
Spring Even.

BIOLOGY 407. Molecular Biology. 3 Credits.
Molecular approaches to biological problems, emphasizing study of informational macro molecules. Topics include replication, control, expression, organization, and manipulation of genes; RNA processing; protein processing; transposons; oncogenies, 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 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 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 282. Personal Financial Planning. 3 Credits.
Exploration and functional analysis of consumers' financial needs and problems in our modern and complex society; learning to formulate financial goals, implement and monitor them through specific plans, financial functions such as budgeting, investing, financing, protecting and distributing wealth; philosophies and values of consumers; legal aspects of consumer rights.
Fall and Spring.

BUS ADM 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

BUS ADM 305. Legal Environment of Business. 3 Credits.
Laws affecting business, emphasizing the Uniform Commercial Code. Introduction to law and the legal process, contracts, agency, property, landlord-tenant and real estate laws, sales and consumer protection laws, secured transactions, negotiable instruments, corporation and partnership law, and estate and bankruptcy law.
P: 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 322. Introductory Marketing. 3 Credits.
The marketing system and the managerial techniques used to market goods, services and organizations. Relationships between marketing activities and economic, political and social institutions; understanding consumer behavior; product, price, promotion and distribution decisions.
P: Sophomore status
Fall and Spring.

BUS ADM 327. Selling and Sales Management. 3 Credits.
Principles and techniques of successful selling that lead to a mutually profitable relationship between salesperson and customer. The nature and scope of sales management: selecting and training sales personnel, importance of customer satisfaction, relationship of company philosophy to the sales force, fundamentals of communication processes.
P: Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5
Fall Only.

BUS ADM 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 343. Corporation Finance. 3 Credits.
Organization of basic financial management functions and principles for business; management of fixed and working capital; short-term and long-term financial planning through investment and financing decisions; domestic and international money and capital markets; ethical issues relating to business financial management.
P: Acctg 300
Fall and Spring.

BUS ADM 344. Real Estate Principles. 3 Credits.
Nature of real estate ownership, importance of land contracts, title transfer, and mortgage instruments; real estate valuation, finance and investment; impacts of taxation, insuring, marketing, and laws affecting real estate (not intended to prepare students for real estate licensing examination).
P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Spring.

BUS ADM 345. Risk Management and Insurance. 3 Credits.
Nature of risks, principal techniques of risk management and the bases for making decisions with respect to the management of personal and business risks.
P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall Only.

BUS ADM 347. Financial Markets and Institutions. 3 Credits.
Role of financial markets and institutions in forming and managing financial resources; examination and analysis of financial intermediation; organization and functions of the U.S. and international financial systems; structure and investment management strategies of specific financial institutions (such as banks, thrift, insurance and investment companies).
P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall and Spring.

BUS ADM 350. Business Computer Applications. 3 Credits.
Business Computer Applications is designed to give students hands-on experience with popular software applications. The course also covers current introductory topics in computing such as computer software & hardware, internet, network security, databases, and ethics in IS among others.
P: Sophomore status
Fall and Spring.

BUS ADM 362. Introduction to Human Resource Management. 3 Credits.
Personnel management: human resource planning, recruitment, selection, training, motivation, fringe benefits, salary and wages, labor relations, and performance evaluation.
P: BUS ADM 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall and Spring.

BUS ADM 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.
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. Introduction to Supply Chain Management. 3 Credits.
This is an introductory course in supply chain management (SCM). This course allows students to understand both the components of supply chain management and its role within the function and across other functions in an enterprise. The objective of supply chain management is to create value, build a competitive infrastructure, leverage worldwide logistics, synchronize supply with demand, and measure performance globally. Logistics is part of the supply chain, which deals with storage and distribution of goods and services, in the right quantity, right condition, at the right time, and in the right place. The goal of this course is to provide a high-level overview of the supply chain function and related concepts, and to provide an understanding of activities involved. This course will also provide a basic understanding of the analytical tools and applications used in SCM. The course will introduce students to some challenges in managing global supply chains. The course will also provide an opportunity to students to work in teams, explore a real life situation related to concepts taught in the class, and do a research project.
P: Sophomore status
Fall and Spring.

BUS ADM 389. Organizational Behavior. 3 Credits.
A micro organizational behavior course examining motivation, leadership, job satisfaction, learning, group dynamics, and stress in the organizational setting.
P: Sophomore status
Fall and Spring.

BUS ADM 421. International Marketing. 3 Credits.
The course is designed to help students explore the global market via the disciplines of economics, cultural studies, geography, history, languages, jurisprudence, demographics, politics, and many others. The opportunities and the threats that emanate from the global marketplace are highlighted, and the need for an international marketing approach on the part of individuals and institutions is emphasized.
P: Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall and Spring.

BUS ADM 423. Advertising. 3 Credits.
Developing and executing advertising campaigns; how these campaigns fit into the total marketing mix; social, legal, and economic considerations and constraints involved in the advertising campaign planning process.
P: Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall and Spring.

BUS ADM 424. Marketing Research. 3 Credits.
Techniques of obtaining and analyzing information about marketing problems; obtaining and interpreting data from primary and secondary sources for marketing decisions.
P: Math 260 or Bus Adm 216 and Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall Only.

BUS ADM 426. Marketing Management. 3 Credits.
Advanced level course in marketing. Strategic interrelationships, development of analytical techniques and abilities and decision making in marketing.
P: Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Spring.

BUS ADM 428. Consumer Behavior. 3 Credits.
Theories of buyer behavior, including ultimate and industrial customers, and their implications for marketing management.
P: Bus Adm 322 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall and Spring.

BUS ADM 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 350 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 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.

BUS ADM 445. International Financial Management. 3 Credits.
Conceptual framework and applications of financial management decisions of multinational firms in a global setting; survey of the international financial environment; determinants of international portfolio and direct investment capital flows; assessment and management of impacts of foreign exchange and hedging strategies; impacts of international factors on capital budgeting and financial structure decisions; multinational money and capital markets; taxation of international business.
P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Bus Adm 442.
Spring.

BUS ADM 446. Advanced Corporation Finance. 3 Credits.
Short-term and long-term financial decisions under risk and uncertainty; financial analysis planning and control; in-depth coverage of theories and applications of capital structure, cost of capital, dividend policies; working capital management; long-term financing decisions; valuation of mergers and acquisitions; international capital budgeting.
P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: Bus Adm 442
Fall and Spring.

BUS ADM 447. Derivatives. 3 Credits.
Coverage of derivative products such as: forwards, futures, options, and swap contracts on commodities, interest rates and equities, as well as the markets in which they trade. Fundamental pricing relationships, trading strategies, and risk management, use of the Binomial Options pricing model and the Black-Scholes model to price derivatives. Exploration of different options strategies, put-call parity, and role of derivatives in portfolio management, option Greeks such as: delta, gamma, vega, theta, and rho.
P: Bus Adm 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Spring.

BUS ADM 450. Bank Administration. 3 Credits.
Commercial banking theories and practices from a financial management perspective; operations, administration, overall asset-liability management of commercial banks, including bank services, credit and loan pricing and analysis, investment portfolio problems, profitability, cost control, and capital budgeting and analysis; implications of deregulation or re-regulation on the financial industry.
REC: Bus Adm 442 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall Only.

BUS ADM 452. 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, Tableu, XLMiner).
P: Bus Adm 216 or Math 260; and Bus Adm 350 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall and Spring.

BUS ADM 460. 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.

BUS ADM 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.

BUS ADM 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.

BUS ADM 467. Compensation and Benefits Planning. 3 Credits.
Theories of compensation and work motivation and their impact on various reward systems and the rationale for decisions affecting the selection of benefits.
P: Bus Adm 362 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall Only.

BUS ADM 472. Leadership Development. 3 Credits.
The course examines contemporary ideas of leadership and issues leaders will face in guiding the organization of the future. The topic is addressed from the perspective of skills and abilities that can be acquired and applied by the student. Theoretical concepts are tied into practice through a course project in the University or the community. The course is structured in a seminar format with an emphasis on discussion.
P: Bus Adm 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall and Spring.

BUS ADM 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.
Fall and Spring.

BUS ADM 481. Entrepreneurship and Small Business Management. 3 Credits.
This course is designed to (1) provide students with classroom learning and practical application (via readings and research) of entrepreneurship and small business management, and (2) show students the vastness of knowledge that a small business owner needs to have including practical tools for understanding, creating, and growing a small business and an entrepreneurial environment in the business world. This course provides students with the insight and knowledge needed to become more competent and influential within their business, with their staff, within their industry, and within their communities. It increases students' appreciation and understanding of the many issues that entrepreneurs and small business owners face. Topics covered include failure, creative thinking, intellectual property, business models, strategic planning, investors, business planning, business ownership forms, franchising, buying and selling small businesses, small business marketing, e-commerce, pricing, financial planning, cash flow management, equity vs. debt financing, location, layout and design considerations, the global aspect of entrepreneurship, building (new venture) teams, creating culture, succession, and exit strategies.
P: Junior status and an overall minimum GPA of 2.0; Bus Adm major or minor or Acctg major or minor or Entrepreneurship Certificate.
Fall and Spring.

BUS ADM 482. Strategic Management. 3 Credits.
The course focuses on the formulation, selection and implementation of business strategies through assessment of organizational performance; competitive, market and industry analysis; development of strategic positions and identification of strategic opportunities. Students practice strategic thinking for a cross section of business types from small, closely held to coprorate, 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 302, ECON 202, BUS ADM 322, BUS ADM 343, BUS ADM 350 and BUS ADM 389 and Bus Adm major or Acctg major and an overall minimum GPA of 2.5.
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 489. Organizational Culture & Change. 3 Credits.
A macro organizational behavior course examining organizational environments, structure, power and politics, conflict, innovation, technology, and culture in the organizational setting.
P: Bus Adm 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall and Spring.

BUS ADM 490. Strategic Decision Analysis. 3 Credits.
Course draws on the conceptual, analytical and interpersonal concepts and skills developed throughout the course of study in Business and Accounting. Students participate in a cross-functional, community of practice environment designed to enhance holistic issue resolution.
P: 85-earned credits; Acctg 302, Econ 202, Bus Adm 322, Bus Adm 343, Bus Adm 350 and Bus Adm 389 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.
Fall and Spring.

BUS ADM 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. 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 108. General Chemistry. 3 Credits.
Survey of basic concepts of matter: its measurement, properties and states; atomic structure and chemical bonding; solutions; acid-base theories, introduction to organic chemistry and biochemistry.
P: Math 101 or Math Placement of Math 104 or greater, and Chem 109 or conc enrl.
Spring.

CHEM 109. General Chemistry Laboratory. 1 Credit.
Laboratory Course that accompanies Chem 108.
P: Chem 108 or concurrent enrollment
Fall and 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

CHEM 300. Bio-Organic Chemistry. 3 Credits.
Those aspects of the field pertinent to students entering the biologically related disciplines: Basic organic chemistry, natural products and molecules important to biological systems. Full credit not given for both Chem 300 and Chem 302 or Chem 303.
P: Chem 212 & 214 with at least a C grade or Chem 108 & 109 with at least a C grade.
Spring.

CHEM 301. Bio-Organic Chemistry Laboratory. 1 Credit.
Optional laboratory course to accompany Chem 300. Credit not granted for both Chem 301 and 304.
P: Chem 300 or conc enr; and 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 Env Sci 207 or conc enr or Hum Biol 207 or conc enr.
Fall and Spring.

CHEM 305. Organic Chemistry Laboratory II. 1 Credit.
Basic and intermediate synthesis, basic and intermediate instrumental techniques in organic chemistry.
P: Chem 303 or conc enr; and Chem 304 with at least a C grade; and Env Sci 207 or conc enr or Hum Biol 207 or conc enr.
Fall and Spring.

CHEM 311. Analytical Chemistry. 4 Credits.
Theory and practice of chemical analysis. Statistics; gravemetric analysis; acid-base chemistry; precipitation, complexometric and redox tetrations; 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.
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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

COMM 302. News Reporting and Writing. 3 Credits.
Researching, interviewing and writing various news stories for print and electronic media, with an emphasis on accuracy, fairness, objectivity, and ethics.
P: at least 15 credits of core supporting courses in Communication
Fall 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 18 credits in COMP SCI, INFO SCI or COMM
Fall Only.

COMM 306. Radio Broadcasting. 3 Credits.
Commercial and non-commercial radio as a communications medium and as a business enterprise: radio audiences, audience ratings, programming and program formats, news, advertising, promotion and sales.
P: at least 15 credits of core supporting courses in Communication
Spring.

COMM 307. Television Production Techniques. 3 Credits.
Exploration of various uses of television as an informative, persuasive, and entertainment medium. Combines analysis of current uses of the medium in a professional context with practical experience in planning and producing a finished product for television.
P: at least 15 credits of supporting core courses in Communication
Fall and Spring.

COMM 308. Information Technologies. 3 Credits.
A survey of information technologies, their operations and limitations, and how the major electronic technologies are changing and affecting both the workplace and the household.
P: 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 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 381. Principles of Public Relations/Corporate Communications. 3 Credits.
An overview of topics, issues, concepts, and practices of public relations/corporate communications; individual and group case work.
P: at least 15 credits of core supporting courses in Communication
Fall and Spring.

COMM 382. Public Relations Writing. 3 Credits.
This course provides students with professional preparation for the writing required for a public relations career. Students will learn strategies for creating, delivering, and evaluating the many different types of P.R. writing, including social media, news releases, media kits, PSAs, magazine queries, newsletters, pitches and backgrounders.
P: at least 15 credits of core supporting courses in Communication
Spring.

COMM 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: 18 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
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
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
Fall and Spring.

COMM 475. Media Workshop II. 3 Credits.
Supervised hands-on experience as a staff member of the Fourth Estate, the campus newspaper. Students become part of a hybrid newsroom in order to experience the worlds of online, social media and print journalism and PR. Students will apply the skills learned in previous Journalism and PR courses: newswriting, feature writing, photojournalism, videojournalism, layout, management, editing, designing and implementing PR campaigns. Involves one-on-one work with professor and editors.
P: at least 15 credits of core supporting courses in Communication
Fall and Spring.

COMM 477. Social Media Strategies. 3 Credits.
This course provides an overview of social media strategies. It will focus on the interconnections between a) historical ideas about strategy, b) networking principles, and c) contemporary research on social media. Particular emphasis is placed on evaluating and creating social strategies for various objectives.
P: at least 15 credits of core supporting courses in Communication
Fall and Spring.

COMM 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.
Fall and Spring.

COMM 480. Cases in Communications and Media Management. 3 Credits.
This course examines the strategies and practices of communications and media management in organizations. Students integrate their knowledge of oral, written, and visual communication to solve real-world cases.
P: at least 15 credits of core supporting courses in Communication
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 take 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 take 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 198. First Year Seminar. 3 Credits.
Reserved for New Incoming Freshman.

COMM SCI 205. Social Science Statistics. 4 Credits.
Application of statistics to problems of the social sciences and of statistical techniques in problem definitions; hypothesis construction; and data collection, processing and evaluation.
P: Concurrent enrollment in Comm Sci 97 or WPT:MFND test score >=416; or Post-baccalaureate status
Fall and Spring.

COMM SCI 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

COMM SCI 301. Foundations for Social Research. 3 Credits.
An integrated examination of the nature of science, theory and statistics. Emphasizes identifying and interpreting relationships between social phenomena by applying the conceptual tools provided in the course to specific problems.
P: Comm Sci 205 or Math 260 or Bus Adm 216.
Fall and Spring.

COMM SCI 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Computer Science (COMP SCI)

Courses

COMP SCI 201. Introduction to Computing & Internet Technologies. 4 Credits.
Introduction to the history of computing, overview of computers, how they work, and relevant applications, especially to web site creation. Introduction to procedural programming and an emphasis on ASP.NET using Microsoft Web Development tools part of the Microsoft Visual Studio.NET programming environment, the basics of HTML, CSS, and JavaScript.
Fall and Spring.

COMP SCI 221. Database Design & Management. 3 Credits.
This introductory course focuses on how databases and database systems work and how they are used in various data-driven applications. The course covers relational databases, SQL, different ways of designing databases, and management of databases. The course provides hands-on experience with exercises using SQL Server and Microsoft Access and includes group discussions. The course also introduces some advanced topics, including database security, data privacy, data analytics, and big data. Working knowledge of Microsoft Office suite and Windows is required for this course.
Fall Only.

COMP SCI 231. Introduction to IT Operations. 3 Credits.
This course covers the basic knowledge and skills needed to plan, design, control and monitor Information Technology services and infrastructure. Topics include the fundamentals of asset management, service provisioning, and functional operations. This course serves as an introduction to careers in the IT field.
Fall Only.

COMP SCI 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: None REC: CS201 and CS 256
Fall Only.

COMP SCI 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

COMP SCI 316. Advanced Software Design. 4 Credits.
A continuation of COMP SCI 256, this course deals with larger projects, more complex problems, and group work. It introduces linear data structures and their implementations. It also develops the object oriented design paradigm to include inheritance and polymorphism.
P: 18 credits of COMP SCI, COMM or INFO SCI
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: 18 credits of COMP SCI, COMM or INFO SCI
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: 18 credits of COMP SCI, COMM or INFO SCI
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: 18 credits of COMP SCI, COMM or INFO SCI
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: 18 credits of COMP SCI, COMM or INFO SCI
Spring Even.

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 steraming applications.
P: Comp Sci 316 with at least a C grade.
Spring Odd.

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: 18 credits in COMP SCI, COMM or INFO SCI
Fall Odd.

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: 18 credits in COMP SCI, COMM or INFO SCI
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: 18 credits in COMP SCI, COMM or INFO SCI
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: 18 credits in COMP SCI, COMM or INFO SCI
Fall Odd.

COMP SCI 451. Database Systems and Big Data Processing. 3 Credits.
This course covers advanced relational database concepts, data warehousing, and distributed database management systems. It introduces students to unstructured data and NoSQL databases and discusses the basics of real-time storage and processing of massive datasets using Hadoop ecosystems. The course includes hands-on exercises with Hadoop ecosystem and SQL Server.
P: 18 credits in COMP SCI, COMM or INFO SCI
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: 18 credits in COMP SCI, COMM or INFO SCI
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 reinformcement learning.
P: 18 credits in COMP SCI, COMM or INFO SCI
Fall Even.

COMP SCI 474. Game Engines. 3 Credits.
This course provides students with an introduction to the theory and practice of video game programming. Students will participate in individual hands-on lab exercises, and also work together like a real game development team to design and build their own functional game using an existing game engine (e.g. Unity, Ogre).
P: 18 credits in COMP SCI, COMM or INFO SCI
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. 1-3 Credits.
A project course in which a student does reading in computer science journals and produces a major research paper.
P: 18 earned upper level cr in Comp Sci.
Fall and Spring.

COMP SCI 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. 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 course will introduce students to a variety of theories about democracy and justice and offer examples of those who have attempted to put decmocracy and justice into practice.
Fall and Spring.

DJS 198. First Year Seminar. 3 Credits.
First Year Seminar, topics vary.
Reserved for New Incoming Freshman.

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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

DJS 303. Criminal Justice Process. 3 Credits.
A study of the components, relations, and processes of U.S. criminal justice. The criminal justice system is theoretically linked to larger social arrangements, including class and race-ethnic stratification. Ethical problems, such as group disparities in arrest and sentencing, are given special attention.
P: Pol Sci 101 and Sociol 202.
Fall Only.

DJS 307. History of Economic Thought. 3 Credits.
Historical development of contemporary economic thought from the mercantilist period to the present emphasizing contributions of major schools of economic thought.
P: jr st.
Fall Only.

DJS 320. Constitutional Law. 3 Credits.
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 202.
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 critical gain insights into the democratic ideals of the United States and their implications for the larger global community.
P: History 206 or Pol Sci 100 or Pol sci 101.
Spring Even.

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 202
Fall Only.

DJS 362. Power and Change in America. 3 Credits.
Study of the dynamic relations between political economy and social structure and the formation and impact of social movements, politics and ideologies in modern America.
P: Pol Sci 101 or Sociol 202.
Spring Odd.

DJS 363. Topics in Democracy and Justice. 3 Credits.
Explores a single theme pertaining to democracy and justice from an interdisciplinary perspective. Variable content. 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 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. 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; may be taken 3 times for a total of 9 credits.
P: Design 231 with at least a C grade.
Fall and Spring.

DESIGN 435. Design Arts Publication Workshop. 3 Credits.
A comprehensive experience in the design and production of a magazine format publication from the early stages of design through to the finished printed product. Combines conventional design skills developed in the graphic communications studios and use of desktop publishing technology. 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 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

ECON 302. Intermediate Macro Economic Theory. 3 Credits.
Theories of national income distribution as a basis for an examination of policy proposals to deal with inflation, unemployment, economic fluctuations and economic growth at national and international levels.
P: Econ 202.
Fall and Spring.

ECON 303. Intermediate Micro Economic Theory. 3 Credits.
Theories used in explaining the behavior of consumers and producers in choices relating to the production, exchange and distribution of output.
P: Econ 203.
Fall and Spring.

ECON 304. Contemporary Labor Markets. 3 Credits.
The determination of wages and employment at the level of the firm, the industry, and the total economy.
P: Econ 202 and 203.
Spring.

ECON 305. Natural Resources Economic Policy. 3 Credits.
Acquaints the student with policies leading to arrangements for the development, management, and use of natural resources. Emphasizes the longer time horizon required for the conservation of resources and a general concern for the quality of ecosystems.
P: Econ 203.
Fall Only.

ECON 307. History of Economic Thought. 3 Credits.
Historical development of contemporary economic thought from the mercantilist period to the present emphasizing contributions of major schools of economic thought.
P: jr st.
Fall Only.

ECON 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 202.
Fall and Spring.

ECON 340. Economics of Land Use. 3 Credits.
Economic relationships between humans and land. Principles governing land use and conservation and the institutional arrangements of this basic resource. Application of principles in policy-making in land valuation, taxation and zoning in the context of regional economic development.
Spring.

ECON 342. Community Economic Development. 3 Credits.
Various forces involved in community economic development, including the human and non human resource potentials, motivation, values and attitudes. Examines social and economic structures such as transportation, communication, and community services from the point of view of community development.
P: jr st; and Econ 202 or 203.
Spring Odd.

ECON 352. Applied Economic Concepts. 3 Credits.
Explores economic principles and consumer economics including money, banking, public finance, and research methods and techniques for economic analysis. For students who have completed macro and micro economic analysis.
P: Econ 202 and 203; or Econ 152.

ECON 371. Gender and Economic Justice. 3 Credits.
This course serves as an introduction to the field of contemporary feminist approaches to economics. Questions range from conceptualization of the economy, work, well-being, and the gendered implications of policy at both micro and macro levels. The course includes an examination of contemporary economic inequalities between men and women (also differentiated by race and class), with a focus on the United States.
P: DJS/WOST 241
Spring Even.

ECON 402. Environmental and Resource Economics. 3 Credits.
Applications of tools such as cost-benefit analysis and other economic concepts in current public decision making, with special emphasis upon common property resources management.
P: Econ 303 or 305.
Spring.

ECON 403. International Economics. 3 Credits.
Theory and concepts of international trade and finance; contemporary conditions and problems in international economic relations.
P: Econ 202 and 203 and jr st.
Spring.

ECON 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 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. This course will meet the Wisconsin Department of Public Instruction P.I. 3 & 4 mandates.
P: adm to teacher educ or candidate status.
Fall and Spring.

EDUC 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.
P: Full admission to Education, concurrent enrollment with EDUC 282 and EDUC 324
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 281 and 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

EDUC 302. Teaching Social Studies in Elementary and Middle Schools. 3 Credits.
Addresses social studies standards, assessments, curriculum content, and instructional strategies including concepts, classroom environment, scope and sequence and other forces influencing the social studies program.
P: adm to teacher educ and Educ 361.
Fall and Spring.

EDUC 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: adm to teacher educ and EDUC 361. REC: 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: adm to teacher educ.
Fall and Spring.

EDUC 310. Teaching Communication Arts in the Middle and Secondary Schools. 3 Credits.
Theoretical and practical considerations in teaching communication arts. Development of a communication arts model, rationale, basic processes and skills, and assessment procedures for the communications arts classroom.
P: adm to teacher educ and Educ 361 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 and Educ 361; concurrent enrollment with Educ 281 and 282
Fall and Spring.

EDUC 325. Teaching Science in the Elementary and Middle Schools. 3 Credits.
Teaching methods, materials, evaluation techniques, curriculum development, implementation and evaluation in elementary and middle school science concepts, processes and problem-solving; the nature of science, 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 401. Student Teaching in the Pre-Kindergarten Setting. 2 Credits.
Supervised student teaching or internships in the pre-kindergarten setting. Offered on a pass/no credit basis only. Additional special course fee required for students exercised options for extra administrative and travel costs.
P: Adm to Education; conc enr in Educ 333; TB test & background check.
Spring.

EDUC 402. Student Teaching in the Kindergarten Setting. 6 Credits.
Supervised student teaching or internships in the kindergarten setting. Offered on a pass/no credit basis only. Additional special course fee required for students exercised options for extra administrative and travel costs.
P: Adm to teacher educ.
Fall and Spring.

EDUC 403. Student Teaching in the Primary School. 6-12 Credits.
Supervised student teaching or internships in the primary school. Offered on a pass/no credit basis only. Additional special course fee required for students exercised options for extra administrative and travel costs.
P: Adm to teacher educ.
Fall and Spring.

EDUC 404. Student Teaching in the Middle School. 6-12 Credits.
Supervised student teaching or internships in the middle school. Offered on a pass/no credit basis only. Additional special course fee required for students exercised options for extra administrative and travel costs.
P: Adm to teacher educ.
Fall and Spring.

EDUC 405. Student Teaching. 6-12 Credits.
Supervised student teaching or internships in the secondary school. Offered on a pass/no credit basis only. Additional special course fee required for students exercising options for extra administrative and travel costs. 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.
Various phases of organizing and administering and interscholastic athletic program with application to athletics in nonacademic environments as well (e.g. boys' clubs, tennis clubs).
Spring.

EDUC 419. Field Experience in Coaching. 2 Credits.
Culminates study and preparation for practical coaching experience. Participation in practice, competitive and other coaching experiences under the supervision of an experienced cooperation coach. Student coach maintains daily log and consults with and is observed by CCP adviser.
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: Adm to teacher educ and EDUC 361. REC: Concurrent enrollment in 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 examines 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 chldhd tchng 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 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 213. Mechanics I. 3 Credits.
Elementary vector operations, resultant of two- and three-dimensional force systems, centroid, hydrostatic forces, equilibrium of trusses and frames, laws of friction and impending motion, moments of inertia, virtual work, stability.
P: MATH 202
Fall Only.

ENGR 214. Mechanics II. 3 Credits.
Displacement, velocity and acceleration components, kinematics of particles using rectilinear and curvilinear coordinates, relative motion, solution and plane motion of rigid bodies, work and potential energy of particles and rigid bodies, linear and angular impulse and momentum, central force motion.
P: ENGR 213
Spring.

ENGR 240. Micro-controllers and Programmable Logic Controllers. 3 Credits.
This course introduces embedded computer systems and mid-range micro-controller peripherals, including electric motor control components, using assembly and C programming. PLC topics such as troubleshooting, timers, counters, sequencers, data move, math , and analog input and output are covered.
P: ET 142 and ET 311
Spring.

ENGR 301. Engineering Materials. 4 Credits.
This course covers the basic behavior and processing of engineering materials, including metals, ceramics, plastics, and alloys. Phase behavior of alloys, response to applied loads, crystalline and noncrystalline behavior are included.
P: ET 206 OR CHEM 212 or concurrent enrollment
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 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
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, Mechanical ET major
Spring.

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 mot 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 Mechanical ET 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
Spring.

ET 220. Mechanics of Materials. 3 Credits.
This course covers the distribution of forces in materials, trusses, and other rigid structures. Topics include stress and strain, torsion, shear and bending moments, thermal expansion and stress, Mohr's circle, and column theory.
P: ENGR 214 or concurrent enrollment and ET 101 with a C or higher; Major in Mechanical Engineering Tech
Spring.

ET 221. Machine Components. 3 Credits.
This course introduces concepts and techniques used in the design of a machine. The components studied include gears, shafts, cams, bearings, belts, and other hardware. Using reference handbooks and catalog specifications in choosing appropriate components for various applications is stressed.
P: ET 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, ET 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: GEOSCI 202 with a grade of C or better and MATH 104 or higher
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 Electrical, Environmental, or Mechanical ET 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 electrical and mechanical engineering technology programs will form multidisciplinary teams and will design and build a project using an electromechanical control system.
P: ET 311 and ET 233 OR CHEM 320 and ET 322 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 Sic 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 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 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: There are no prerequisites, but this course must be taken as a co-requisite with ENG COMP 100, for any student with an ACT English score of 16 or lower OR an SAT Critical Reading score of 440 or lower OR SAT Reading score of 24 or lower.
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 of 17 or higher or SAT Reading score of 25 or higher; OR conc enr in Eng Comp 95
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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

ENG COMP 305. Composition Practicum: Tutoring. 1 Credit.
Effective tutoring in composition requires both a working knowledge of composition theory and guided practice analyzing student essays. This course will invite students to explore those theories and to reflect on their application prior to working as tutors in the Writing Center.
P: prior written cons of inst.
Spring.

ENG COMP 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. 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.

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 206. Women in Literature. 3 Credits.
Surveys both women as writers and women as characters in literature; emphasizes the wisdom, experiences and insights of women writers and women in literature; concerned with literature from two or more cultures and comparison of the social and human values reflected in the literature of those cultures.
Fall Only.

ENGLISH 212. Introduction to Creative Writing. 3 Credits.
A first course focused on the analysis, understanding, appreciation, and techniques of writing poetry and fiction, as well as other genres at the discretion of the instructor.
Fall and Spring.

ENGLISH 214. Introduction to English Literature I. 3 Credits.
Chronological survey of English literature from Anglo-Saxon times to the end of the 18th century, including such writers as Chaucer, Shakespeare, Donne, Milton, Pope, and Swift.
Fall Only.

ENGLISH 215. Introduction to English Literature II. 3 Credits.
Chronological survey of English literature from the 19th century to the present, including such writers as Wordsworth, Shelley, Keats, Byron, Tennyson, Shaw, Conrad, Eliot and Thomas.
Spring.

ENGLISH 216. Introduction to American Literature I. 3 Credits.
Chronological survey of American literature from early exploration narratives to Melville, including such writers as Mather, Bradstreet, Paine, Irving, Cooper, Poe, Emerson and Thoreau.
Fall Only.

ENGLISH 217. Introduction to American Literature II. 3 Credits.
From Whitman to the present, including such writers as Dickinson, Twain, James, Crane, Eliot, Porter, Fitzgerald, Hemingway, Faulkner, Cummings, Updike, Walker and Carver.
Spring.

ENGLISH 218. World Literatures. 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 Sheepshead 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 290. Literary Studies. 3 Credits.
In this course students will learn how to conduct a literary analysis: how to read literature for complexity, how to make an original, organized argument about a literary text, and how to employ academic prose while developing their own writing voice.
Fall and Spring.

ENGLISH 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

ENGLISH 301. Intermediate Creative Writing. 3 Credits.
Analysis of writing in various genres including individual and group criticism of original student materials in workshop context. Variable topics; may be repeated up to total of six credits.
P: English 290 or concurrent enrollment; and English 212 or 213; and Eng Comp 105 or 228 or ACT English score of 32 or higher; and 9 cr of lit cses.
Fall Only.

ENGLISH 302. Short Fiction Writing Workshop. 3 Credits.
Advanced practice in the writing of short fiction, including group criticism of student work. 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 not repeatable for credit.
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 316. The English Novel: 1850's to the Present. 3 Credits.
The development of the English novel from Mid-Victorian to modern times; includes works by such authors as Dickens, Eliot, Trollope, Hardy, Wilde, Conrad, Joyce, Woolf, Lawrence, Bowen and Cary.
P: English 290 or concurrent enrollment, Jr st.
Spring.

ENGLISH 320. Major Drama. 3 Credits.
Study of one or more British, Irish or American dramatists and dramatic works. 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 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.

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 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

ENV SCI 301. Radioactivity: Past, Present, and Future. 3 Credits.
Radioactive isotopes play a significant role in many aspects of the natural and human environments. People are affected throughout their lives by natural and anthropogenic isotopes at local, national, and global scales. From radon in houses and radium in local drinking water supplies to fallout from Chernobyl, humans are directly impacted through health, economic, and technological pathways.
REC: HS chemistry or earth science, or Geosci 102 with at least a C grade
Fall Only.

ENV SCI 302. Principles of Ecology. 4 Credits.
Ecological principles governing interactions of plants and animals in their physical and biotic environments. Focuses on organisms and their environment, populations, communities, ecosystems, and global dimensions.
P: Math 104 or Math Placement of Math 202 or greater; Math 260 or enrolled concurrently in Math 260; Biology 203 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: GEOSCI 202 with a grade of C or better and MATH 104 or higher
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.
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.
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.
P: Env Sci 302 with at least a C grade or 305 with at least a C grade, and Math 260 with at least a C grade. REC: Env Sci 302 and 305
Fall and Spring.

ENV SCI 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. All internships must be taken P-NC.
P: jr st and gpa > or = 2.75 and completion of 3 UL cses in maj or min.
Fall and Spring.

ENV SCI 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

ENV SCI 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

English as a Second Language (ESL)

Courses

ESL 80. Grammar I. 3 Credits.
This course will further students' understanding of English syntax, morphology and structure. Students will focus on productive mastery of verb agreement and tense as well as the syntactic framework of English. Students will learn about dependent and independent clauses and appropriate use of conjunctions to increase confidence using a variety of sentence structures in both oral and written production.

ESL 81. Reading and Vocabulary I. 3 Credits.
This course is designed for students who struggle to read in English, and are not yet confident in their ability to extract important information from a text. In this course we will focus on using contextual clues to create meaning from unfamiliar vocabulary and confusing semantic structures. Students will learn to extract main ideas, gain comfort with a variety of texts including fiction, non-fiction, academic textbooks, news articles, internet search results, etc.

ESL 82. Writing Workshop I. 6 Credits.
This course will focus on moving students from basic, short paragraphs to 5 paragraph essays with topic sentences and supporting details that reinforce well-formed thesis statements. Students will learn about focus, organization and cohesion in their writing, with an emphasis on creating strong arguments that are clearly conveyed with American stylistic conventions.

ESL 83. Listening and Speaking for Everyday Life. 3 Credits.
This course is designed for non-native speakers of English who are seeking to improve their skills for social interactions. A combination of structured and semi-structured production opportunities will help learners to feel confident in everyday interactions. Students will participate in conversations, debates and presentations about current events, cultures around the globe, and many other topics of interest! Opportunities for listening for understanding will be met with a variety of contexts including guest speakers, movies and news clips.

ESL 85. Understanding American Culture. 3 Credits.
Living in a country and among a people who are not your own can prove to be a bit overwhelming and challenging at times. This integrated skills course will focus on cultural adjustment and gaining a better understanding American culture through field experiences, media exposure, readings, and class discussion. Students will grow in their understanding of role of gender and race in America, family life, holidays, leisure activities and a little bit of history, too. Students will emerge from this course with an increased ability to work cross-culturally with partners and in groups as they pursue further study.

ESL 90. Grammar II. 3 Credits.
This course will continue student understanding of advanced grammatical structures. Students will discuss tense and agreement, modals, active/passive tense, subordinate clauses, parallel structure and more. Students will become more effective writers and more confident communicators through this coursework.

ESL 91. Reading & Vocabulary II. 3 Credits.
This course will focus on being able to identify main ideas and details that will enable students to summarize academic texts. Students will build reading fluency and develop techniques to assist them with the reading load of university. These skills include skimming, scanning, asking questions of the text, as well as identifying and defining critical vocabulary.

ESL 92. Writing Workshop II. 6 Credits.
This course will introduce students to the concept of writing as recursive process. Students will understand how to develop a thesis, and how to use that thesis to communicate clearly and effectively using strong supporting details throughout their essays. Students will focus on creating effective transitions that smooth communication and highlight important details. Students exiting this course will understand the importance of proper grammar and spelling for effective communication. The course will culminate in a research paper in which students learn research techniques and gain an understanding of proper citations.

ESL 93. Listening & Note-taking II. 3 Credits.
In this course, students will be exposed to university style lectures and develop strategies for effective note-taking within that setting. In addition, this course will focus on student response time for academic conversations. Students will focus on the ability to hear, comprehend, process and respond in a timely manner when working in academic settings with professors and other students. Enhancing these skills will be crucial to your academic success!.

ESL 94. Advanced Oral Communication. 3 Credits.
This course is designed for students who are preparing to engage in university level academic coursework. Emphasis will be placed on enhancing students' communicative skills in both formal and informal academic settings. We will focus on oral fluency in developing appropriate syntactic and semantic structures as well as accent reduction. Students will learn the importance of stress, rhythm and intonation in the American English accent. Students enrolling in this course should be prepared to take new risks and stretch the limits of what they can do with their English!.

First Nations Studies (FNS)

Courses

FNS 198. First Year Seminar. 3 Credits.
Reserved for New Incoming Freshman.

FNS 210. American Indians In Film. 3 Credits.
This course examines how Hollywood films both construct and appropriate images of American Indians. Students will view films beginning with the silent film era and ending with contemporary movies while exploring and challenging common stereotypes of Native people.

FNS 211. 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

FNS 301. Oneida Language I. 3 Credits.
A course on the Oneida language 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.
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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

FNS 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

French (FRENCH)

Courses

FRENCH 101. Introduction to the French Language I. 4 Credits.
Development of basic ability in understanding, reading, speaking and writing in French.
Fall Only.

FRENCH 102. Introduction to the French Language II. 4 Credits.
Development of basic ability in understanding, reading, speaking and writing in French.
P: none; REC: 1 yr h.s. or 1 sem college French.
Spring.

FRENCH 201. Intermediate French Language I. 3 Credits.
Further development of the ability to understand, read and speak French.
P: none; REC: 2 yrs h.s. or 2 sem college French.
Fall Only.

FRENCH 202. Intermediate French Language II. 3 Credits.
Further development of the ability to understand, read and speak French.
P: none; REC: 3 yrs h.s. or 3 sem college French.
Spring.

FRENCH 225. Intermediate French Conversation and Composition. 3 Credits.
Development of greater fluency through classroom practice in conversation and composition.
P: none; REC: 4 yrs h.s. or 4 sem college French.
Fall Only.

FRENCH 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

FRENCH 325. Advanced French Conversation and Composition. 3 Credits.
Continues development of fluency through intensive practice and study of the spoken and written language. Stresses accurate use of grammatical structures and sensitivity to differences in style, tone and levels of language from colloquial to formal.
P: French 225.
Spring.

FRENCH 329. Representative French Authors. 3 Credits.
Important novels, plays, poems, and essays representative of major eras and movements of French society foster appreciation of the language and understanding of the literature and culture. Includes different styles of writing and differing treatment of recurring themes. Offered in the language. May be repeated for credit when different subtitle is studied.
P: French 225.
Spring.

FRENCH 333. Literary Themes. 3 Credits.
Explores a single theme such as fantasy, war, revolution, love, alienation, through the literature of one or many nations. May be repeated for credit when a different theme is studied.
P: French 225.
Fall Odd.

FRENCH 345. Advanced French Grammar and Translation. 3 Credits.
In-depth review and continued study of French grammar, including fundamentals of comparative English-French grammar, and basic principles of translation from French into English and English into French.
P: French 225.
Fall Odd.

FRENCH 346. French Phonetics and Public Speaking. 3 Credits.
Intensive study of French sound system to improve accuracy of pronunciation and intonation. Different accents studies. Intonation patterns needed for different social situations practiced.
P: French 225.
Fall Even.

FRENCH 354. France Today. 3 Credits.
Aspects of French history and traditional customs and values of contemporary French culture, including rural and urban life, industry and commerce, art and music, etc.
P: French 225.
Fall Even.

FRENCH 355. Le Monde Francophone. 3 Credits.
A study of the French-speaking (francophone) world outside of France. Students will become familiar with essential features of the geography, history, and culture of francophone countries on five continents.
P: French 225.
Spring Even.

FRENCH 367. Business French. 3 Credits.
Students read and discuss business articles and correspondence, cultural aspects of business communication. Areas include banking, correspondence, import-export, computers.
P: French 225.
Spring Odd.

FRENCH 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.
Fall and Spring.

FRENCH 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.
Fall and Spring.

FRENCH 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

FRENCH 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Geography (GEOG)

Courses

GEOG 102. World Regions and Concepts: A Geographic Analysis. 3 Credits.
Contemporary geography, its viewpoints and methodology; geographic reality of the present-day world is analyzed through case studies using both the regional approach and systematic analysis.
Fall Only.

GEOG 210. Human Geography and Concepts. 3 Credits.
This course introduces you to some of the major topics and models studied in human geography. Specifically, this course will examine the global patterns of population, culture, economic and political systems, and the interconnectedness at the international, national, and sub-national scales.
Fall Only.

GEOG 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

GEOG 321. Coastal Resources Policy and Management. 3 Credits.
The importance of coastal resources, 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 student 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.
P: None
Fall Even.

GEOG 421. Geoscience Field Trip. 1-3 Credits.
Intensive three or four-day field study tour of the geology, soils, and landscapes of Wisconsin and/or surrounding states. Each offering will focus on a different geological theme and will focus on a specific region. Cost of transportation, guidebook, meals and lodging borne by student.
P: Geosci 202 with at least a C grade OR Consent of the instructor.
Fall Odd.

GEOG 450. Advanced Geographic Information Systems. 3 Credits.
Project-based course using ArcGIS. Students define a project, develop a database, analyze spatial data, and develop GIS maps displaying results of their analysis.
P: Geog 350 or Pu En Af 350.
Spring Even.

GEOG 470. Quaternary Geology. 3 Credits.
Understanding the extremes in environmental behavior which characterize Pleistocene time. Principles of glaciology and the impact of glaciation on the landscape.
P: Geosci 202 with at least a C grade; REC: Geosci 203.
Spring Even.

GEOG 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.
P: jr st.
Fall and Spring.

GEOG 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early inthe 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 inthe 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

GEOSCI 301. Introduction to Geoscience Field Methods. 2 Credits.
A survey of methods of field investigations including description and measurement of rock sequences, introduction to geological mapping, surveying, and writing geological reports.
P: Geosci 202.
Spring Odd.

GEOSCI 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 bio-stratigraphy and physical stratigraphy and sedimentology.
P: Geosci 202 with at least a C grade and 203 with at least a C grade.
Fall 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. Quaternary Geology. 3 Credits.
Understanding the extremes in environmental behavior which characterize Pleistocene time. Principles of glaciology and the impact of glaciation on the landscape.
P: Geosci 202 with at least a C grade; REC: Geosci 203.
Spring Even.

GEOSCI 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

GEOSCI 492. Special Topics in 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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

GEOSCI 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

German (GERMAN)

Courses

GERMAN 101. Introduction to the German Language I. 4 Credits.
Development of basic ability in understanding, reading, speaking and writing in German.
Fall Only.

GERMAN 102. Introduction to the German Language II. 4 Credits.
Development of basic ability in understanding, reading, speaking and writing in German.
P: none; REC: 1 yr h.s. or 1 sem college German.
Spring.

GERMAN 201. Intermediate German Language I. 3 Credits.
Further development of the ability to understand, read and speak German.
P: none; REC: 2 yrs h.s. or 2 sem college German.
Fall Only.

GERMAN 202. Intermediate German Language II. 3 Credits.
Further development of the ability to understand, read and speak German.
P: none; REC: 3 yrs h.s. or 3 sem college German.
Spring.

GERMAN 225. Intermediate German Conversation and Composition. 3 Credits.
Development of greater fluency through classroom practice in conversation and composition.
P: none; REC: 4 yrs h.s. or 4 sem college German.
Fall Only.

GERMAN 285. Study Abroad: Germany. 3-15 Credits.
P: cons of instr & prior trip arr & financial deposit.

GERMAN 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

GERMAN 325. Advanced German Conversation and Composition. 3 Credits.
Continues development of fluency through intensive practice and study of the spoken and written language. Stresses accurate use of grammatical structures and sensitivity to differences in style, tone and levels of language from colloquial to formal.
P: German 225.
Spring.

GERMAN 329. Representative German Authors. 3 Credits.
Important novels, plays, poems, and essays representative of major eras and movements of German society foster appreciation of the language and understanding of the literature and culture. Includes different styles of writing and differing treatment of recurring themes. Offered in the language. May repeat for credit if different authors are studied.
P: German 225.
Fall Only.

GERMAN 333. Literary Themes. 3 Credits.
Explores a single theme such as fantasy, war, revolution, love, alienation, through the literature of one or many nations. May be repeated for credit when a different theme is studied.
P: German 225.
Spring Even.

GERMAN 335. Literary Eras. 3 Credits.
Studies the works of a number of writers in relation to their time; includes poetry, prose and drama. May be repeated for credit when a different era is studied.
P: German 225.
Spring Even.

GERMAN 345. Advanced German Grammar. 3 Credits.
This course will assist students in improving their overall language proficiency by focusing on more challenging aspects of German syntax and semantics.
P: German 225.
Fall Odd.

GERMAN 350. Major German Drama. 3 Credits.
Study of German drama either by period or by theme. May be repeated for credit when content is different.
P: German 225.
Spring Odd.

GERMAN 351. Major German Prose Fiction. 3 Credits.
Study of German short story and/or novels either by period or by theme.
P: German 225.
Fall Even.

GERMAN 355. Deutsche Kultur und Landeskunde. 3 Credits.
Expands students' linguistic and cultural proficiency in German through discussion of German history, politics and the arts.
P: German 225.
Spring Even.

GERMAN 356. German Culture. 3 Credits.
The culture of the German-speaking world from the earliest periods to the present with a focus on how contemporary Germany has been shaped by issues of history, religion, art, music, philosophy, and commerce.
P: German 225.
Fall Odd.

GERMAN 357. German Cinema. 3 Credits.
Historical and critical introduction to the work of prominent German filmmakers and to cinematic representations of German culture.
P: German 225.
Fall Even.

GERMAN 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.
Spring Even.

GERMAN 425. German Translation Studies. 3 Credits.
This course will introduce students to the theory and practice of translating both into and from modern German. Through readings in translation theory and comparative linguistics as well as through group work, students will become aware of the structures and nuances of both languages.
P: German 225; REC: German 345.
Spring Odd.

GERMAN 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.
Fall and Spring.

GERMAN 485. Study Abroad: Germany. 3-15 Credits.
A semester of study at the University of Kassel in Germany. Students register before departing; upon return, they must submit descriptions of courses taken, evaluations from professors, a formal certificate, and a letter grade.
P: cons of instr & prior trip arr & financial deposit.
Fall and Spring.

GERMAN 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.
Fall and Spring.

GERMAN 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early inthe 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
Fall and Spring.

HIMT 310. Healthcare Systems and Organizations. 3 Credits.
This course provides an overview of how healthcare and public health are organized and how their services are delivered in the United States (US). Topics to be covered include: public policy (including US health reform initiatives), organization of healthcare systems, components and operation of healthcare organizations including e-health delivery, professional roles and accreditation, legal and regulatory issues including licensure requirements.
Fall 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.
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
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.
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
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
Fall and Spring.

HIMT 355. Principles of Management for HIMT Professionals. 3 Credits.
This course provides an overview of basic principles involved in management and communication. Topics include basic management principles, communication skills, interpersonal communication competence, negotiation technique, team/consensus building, professional development, and problem solving/decision-making processes.
Fall Only.

HIMT 360. Healthcare II: Survey of Disease & Treatments. 3 Credits.
This course further investigates the topics covered in HIMT 330 Health Care I. Based on each body system the course will further expand into the topics of human disease, human health issues and classification of disease/health issues. Diagnostics, Treatment and Clinical procedures that are currently in practice. In addition, the course will incorporate Pharmacotherapeutic concepts (drugs and therapies to treat/prevent/control human disease/health issues), investigating the variety of drugs used for disease treatment for each body system, this will include the current biologicals that are used for treatment. Topics will include how the drugs and biologicals work, their limitations, and the current diversity of available drugs and biologicals.
P: HIMT 330; HIMT major
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.
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
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
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 & 360; HIMT major
Fall Only.

HIMT 400. Healthcare Information and Technology - Data. 3 Credits.
This course explores the sources and data contents of health-care information as well as the proper presentation of it for different usage levels. Topic 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
Fall Only.

HIMT 410. Healthcare Sytems: 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 & 370; HIMT major
Spring.

HIMT 415. Human Resource Management in Healthcare. 3 Credits.
This course examines the role of HIM staff in managing human resources to facilitate staff recruitment, retention and supervision.
Spring.

HIMT 420. Healthcare Systems: Project Management. 3 Credits.
This course addresses the phenomenal impact information system (IS) projects have had on healthcare delivery. Students learn how healthcare IS projects affect organizations, doctors, patients, and chronic-illness treatments, as well as individuals interested in managing their own healthcare. Concepts and tools for effective healthcare IS project management, process re-engineering and work redesign are introduced. The purpose of this course is to expose students to IS project management activities in healthcare settings. Topics covered include recent healthcare IS project trends, budgeting, scheduling, resource management, scope, risk analysis, and deployment controls. The genesis of healthcare project management is covered using specific cases and examples.
Fall Only.

HIMT 425. Data Warehousing and Mining. 3 Credits.
Examine the concept of data warehouse and its effectiveness in supporting strategic decision making. Address the process of creating data warehouse/data-mart solutions from the identification of the enterprise informational and analytical needs to producing business intelligence by extracting information from the data warehouse by using data mining methods and models.
P: HIMT 375; HIMT major
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
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
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: None
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
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
Fall Only.

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: None. 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
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: Admission to the HIMT major
Fall and Spring.

History (HISTORY)

Courses

HISTORY 101. Foundations of Western Culture I. 3 Credits.
Comprehensive chronological survey of major events, people, and ideas that have influenced the history, literature, art, and culture of Western Civilization. This course covers ancient civilization through the Renaissance.
Fall and Spring.

HISTORY 102. Foundations of Western Culture II. 3 Credits.
Comprehensive chronological survey of major events, people, and ideas that have influenced the history, literature, art, and culture of Western Civilization. This covers the Renaissance up to the present.
Fall and Spring.

HISTORY 103. World Civilizations I. 3 Credits.
Chronological survey of major events, people, and ideas that have influenced the history, literature, art, and culture of various world civilizations. This course covers the origins of civilization to the Age of Exploration.
Fall and Spring.

HISTORY 104. World Civilizations II. 3 Credits.
Chronological survey of major events, people, and ideas that have influenced the history, literature, art and culture of various world civilizations. This course covers the Age of Exploration up to the present.
Fall and Spring.

HISTORY 205. American History to 1865. 3 Credits.
This course explores early American and United States history through 1865, with attention to politics, society, economy, culture, and gender. Following an overview of Turtle Island (a Native designation for North America) before European contact, likely topics to be considered include the European colonization process; the creation and expansion of the United States; the evolution of formal and informal democratic institutions; Native resistance, accommodation, and persistence; the rise and fall of the institution of African slavery in the Atlantic world; early industrialization; and the causes and outcomes of the Civil War.
Fall Only.

HISTORY 206. History of the United States from 1865 to the Present. 3 Credits.
This course explores the history of the United States since 1865, with attention to politics, society, economy, and culture. Likely topics to be considered include: the African-American freedom struggle during Reconstruction and the Jim Crow era; the conquest of the trans-Mississippi west; industrialization and labor conflict; immigration; the expansion of American military and economic power around the world, including participation in the First World War, the Second World War, and the global Cold War; the growth of state power; urbanization and suburbanization; feminism, women's rights, civil rights, and other social movements; and the rise of conservatism since the 1970s.
Spring.

HISTORY 207. Introduction to African-American History. 3 Credits.
Survey of black people's experience in America, beginning with African culture through the development of Afro-American culture and institutions; includes political, social, economic and cultural history.
Fall and Spring.

HISTORY 220. American Environmental History. 3 Credits.
This course offers an introduction to environmental history - the study of the historical relationship between humans and the natural world - with a focus on North America from before European contact up to contemporary times. Likely topics to be considered include: First Nations' relationships with nature and land use patterns prior to European contact; the massive environmental changes that came with the arrival of European colonizers; changing ideas about the proper relationships between humans and nature; and major developments in resource use and management, including the rise of the modern environmental movement in the late 20th century and contemporary environmental problems and challenges.
Spring.

HISTORY 290. The Craft of History. 3 Credits.
This course introduces students to the various ways in which historians think, debate, and write about the past.
P: None. REC: One or more lower-level History courses, such as 101, 102, 103, 104, 205, 206, 207, and/or 220
Fall and Spring.

HISTORY 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

HISTORY 301. The Middle Ages. 3 Credits.
Examines Western European history from the late Roman Empire to the Renaissance. Focuses on primary sources and the writings of medieval historians.
P: Hum Stud 101 or 201.
Fall Odd.

HISTORY 302. Problems in American Thought. 3 Credits.
Selected themes and topics in the history of American thought and culture from the 17th century to the present. May be repeated for credit when different content is offered.
P: jr st.
Fall 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 poiltical, economic, social, and cultural developments that occurred in Europe during this time and discuss such topics as revolution, Napoleon Bonaparte, industrialization, liveralism, 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.
P: History 206 or Pol Sci 100 or Pol sci 101.
Spring Even.

HISTORY 354. History of Modern East Asia. 3 Credits.
Modern East Asian history since the late nineteenth century, including China, Korea, Japan, and Vietnam. The course examines political, social, and cultural changes in the region and emphasizes the East Asian response to encounters with the West.
P: none; REC: jr st.
Spring Odd.

HISTORY 356. History of Modern Africa. 3 Credits.
This course explores the history of modern Africa from 1850 to the present, concentrating on the major political issues faced by the various peoples of Africa from European colonialism onward. We will discuss the development of European colonization, the gradual integration of Africa into the global community, the struggle for liberation, the Cold War in Africa, and modern challenges of post-colonial Africa including civil war, genocide, HIV/AIDS, poverty, and the consequences of colonization.
P: none; REC: jr st.
Spring Even.

HISTORY 358. Political History of Modern Latin America. 3 Credits.
This course adopts a comparative historical approach to the study of modern Latin American politics and society in the twentieth century. The main themes concentrate on the origins of repressive dictatorships, indigenous resistance, revolutionary movements, United States intervention, and the challenge of democracy.
P: none; REC: jr st.
Fall Only.

HISTORY 360. Ancient Greece. 3 Credits.
This course traces the development of Ancient Greek civilization from its origins in the Ancient Near East until its conquests by Rome. Includes social, political, intellectual, economic, and cultural history.
P: none; REC: Hum Stud 101.
Fall Odd.

HISTORY 361. Ancient Rome. 3 Credits.
This course traces the development of Roman civilization from its Etruscan origins through Late Antiquity. Includes social, political, intellectual, economic, and cultural history.
P: none; REC: Hum Stud 101.
Spring Even.

HISTORY 365. U.S. Labor and the Working Class: Past and Present. 3 Credits.
This course introduces students to the major themes around the history of American working men and women in the nineteenth, twentieth, and twenty-first centuries. The course examines the social and political place of working people as well as cultural practices and how they impacted workers' political consciousness.
Spring.

HISTORY 370. History of Sexuality in the U.S.. 3 Credits.
Historical introduction to sexual behaviors and attitudes in the U.S. from the period of colonization to the present. Includes analyses of the impact of economic, racial, gender, political, and technological change on sexual norms and behaviors.
P: DJS/WOST 241 or History 205 or 206
Spring.

HISTORY 380. U.S. Women's History. 3 Credits.
In this course our goal is a richer understanding of women's experiences in the past, ranging from pregnancy and single motherhood to women's struggles to win the right to vote. Through lectures, discussions and films we will explore a variety of women's lives, consider the ways studying women changes our historical perspectives and focus on how interpretations of the past influence our understanding of current social issues.
P: none; REC: jr st and one cse in U.S. history, U.S. lit or Women's Studies.
Fall Only.

HISTORY 402. America in the Twentieth Century. 3 Credits.
Examines the history of the United States during the Twentieth Century, emphasizing social, political, and economic themes and issues.
P: none; REC: jr st.
Spring.

HISTORY 420. Topics in Ancient History. 3 Credits.
Variable content. Course will explore a topic, issue, problem or controversy in ancient history such as the ancient economy, Augustus, or daily life in the Roman world. Emphasis on primary sources.
P: none; REC: Hum Stud 101.
Spring Odd.

HISTORY 421. Topics in Medieval History. 3 Credits.
Examines themes of the Medieval world, such as the Viking Diaspora, Medieval Russia, the Silk Road, and the Byzantine Empire.
P: Hum Stud 101.

HISTORY 422. Topics in Early Modern European History. 3 Credits.
The course will explore current topics and themes with European history between the sixteenth and eighteenth centuries. Possible topics include the witch persecutions, crime and punishment, British history and the history of society and gender.
P: 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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

HISTORY 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Hmong (HMONG)

Courses

HMONG 101. Introduction to the Hmong Language I. 4 Credits.
Development of basic ability in understanding, reading, speaking and writing in Hmong.
Fall Only.

HMONG 102. Introduction to Hmong Language II. 4 Credits.
Development of basic ability in understanding, reading, speaking and writing in Hmong.
P: Hmong 101
Spring.

HMONG 200. Introduction to Hmong Culture. 3 Credits.
Introduction to Hmong culture, including history, traditions, and religion. The course is structured around presentations by individuals from the Hmong community, field experiences in the local community, and presentations of student papers.
P: None REC: Soc 202 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 202 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 inthe 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. 2 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 217. Human Disease and Society. 3 Credits.
Impact of diseases in humans. Emphasizes the major diseases, their causes, individual effects, historical significance, and methods of control.
Fall and Spring.

HUM BIOL 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

HUM BIOL 310. Human Genetics. 3 Credits.
The molecular basis of heredity, genetic diseases, and genetic technologies including cloning, genetic testing, and gene therapy will be evaluated.
P: Biology 201/202 with at least a C grade ; Chem 108 or 212 with at least a C grade.
Fall and Spring.

HUM BIOL 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
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 Odd.

HUM BIOL 423. Immunology Lab. 1 Credit.
This laboratory course examines the mechanisms of innate and acquired immunity.
P: Hum Biol 422 or conc enr AND 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.
P: Hum Biol 207 or Env Sci 207 and approval by faculty mentor.
Fall and Spring.

HUM BIOL 497. Internship. 1-16 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.
P: jr st.
Fall and Spring.

HUM BIOL 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

HUM BIOL 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Human Development (HUM DEV)

Courses

HUM DEV 102. Introduction to Human Development. 3 Credits.
Human development from conception through death: physical development, social and emotional development, personality development, the development of language, intellectual development and creativity, and the process of human learning.
Fall and Spring.

HUM DEV 198. First Year Seminar. 3 Credits.
First Year Seminar, topics vary.
Reserved for New Incoming Freshman.

HUM DEV 225. Career Planning. 1 Credit.
Provides students with the knowledge and resources necessary for effective career decision-making in college. The class sessions and assignments focus on self-assessment, learning and applying career development theories, exploring major and career options, and establishing goals for career/life planning.
Fall and Spring.

HUM DEV 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

HUM DEV 302. Developmental Research Methods. 4 Credits.
A survey of research methods used by developmental researchers.
P: Hum Dev 102; Comm Sci 205 or Math 260 or Bus Adm 216
Fall and Spring.

HUM DEV 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 331. Infancy and Early Childhood. 3 Credits.
Current theories, methods of study and research in the study of human development from conception through the early childhood years, and the interrelationships among biological, social, and psychological aspects of development.
P: Hum Dev 102 or Psych 102; REC: Hum Dev 302
Fall and Spring.

HUM DEV 332. Middle Childhood and Adolescence. 3 Credits.
Individual development from the elementary school years through adolescence: socio-cultural, psychological and physical growth factors in the developmental process of the older child and adolescent. Stresses interpretation of behavior from the perspectives of such theorists as Erikson and Piaget.
P: Hum Dev 102 or Psych 102; REC: Hum Dev 331 or equiv.
Fall and Spring.

HUM DEV 336. Gender Development Across the Lifespan. 3 Credits.
An interdisciplinary analysis of changes in biological, social, and identity development for males and females throughout the life span. The development and variation of sexual orientation and gender expression will be discussed.
P: Hum Dev 102 or DJS 241. REC: Comm Sci 301 or Hum Dev 302
Fall and Spring.

HUM DEV 342. Cross Cultural Human Development. 3 Credits.
Cultural differences in perception, cognition, language and thought, child development, child rearing, and personality; relationships between various aspects of culture and psychological functioning within non-Western cultures and American ethnic subcultures.
P: Hum Dev 102 or Anthro 100; REC: soc sci cse.
Fall and Spring.

HUM DEV 343. Adulthood and Aging. 3 Credits.
Theory and empirical research concerning developmental processes across the adult life span; psychological, cultural and biological factors which influence development in young adulthood, middle adulthood and old age.
P: Hum Dev 102 or Psych 102; REC: Hum Dev 331 and 332.
Fall and Spring.

HUM DEV 344. Dying, Death, and Loss. 3 Credits.
Death, dying, and loss from a multidisciplinary diversity perspective; the development of death concepts across the life span, end of life issues, and cross-cultural death practices and their relation to the American death system.
P: Hum Dev 102.
Spring.

HUM DEV 345. Human Sexuality. 3 Credits.
Overview of human sexuality from developmental and interpersonal perspectives. Topics include reproductive physiology and health, sexual function and dysfunction, educational and intervention strategies, and sexual orientation and gender expression diversity.
P: Hum Dev 102; REC: Hum Biol 102.
Fall and Spring.

HUM DEV 346. Culture, Development and Health. 3 Credits.
The course will focus on different cultural groups in the U.S. providing a brief multicultural history with an overview of the major religious worldviews before examining how development and approaches to health and well-being vary across cultures.
P: Hum Dev 102.
Fall Only.

HUM DEV 350. Developmental Psychobiology. 3 Credits.
New brains, young minds, and early behaviors will be explored using animal and human models.
P: Hum Dev 102; and Hum Biol 102 or Biol 202.
Fall Only.

HUM DEV 353. Family Development. 3 Credits.
An overview of the study of the American family from a developmental perspective, with particular emphasis on family members' life cycle changes.
P: Hum Dev 102 or Sociol 202.
Fall and Spring.

HUM DEV 370. Personal Relationships. 3 Credits.
This course will examine research and theory on the development and processes of romantic relationships, including: attraction, commitment, sexuality, relationship maintenance and dissolution. Students will read primary sources on cutting-edge research in the field, such as: the role of biochemistry in attraction, the impact of personal relationships on health, and the effectiveness of relationship education programs.
P: Hum Dev 102 REC: Hum Dev 302 or Comm Sci 301 or Psych 300
Spring.

HUM DEV 424. The Development of Creative and Critical Thinking. 3 Credits.
Explores the definitions and assessment of creative thinking across the lifespan and provides the opportunity to discuss controversial issues in the field and to practice techniques for facilitating thought.
P: Hum Dev 102; and jr st or upper lev Hum Dev/Psych cse.
Fall Only.

HUM DEV 443. Spirituality and Development. 3 Credits.
This course in Human Development will explore how spirituality, religion, and faith may represent important aspects of development across the lifespan. Important questions to address include the following: How may 'spirituality' be defined? Is aging a form of spiritual development? Discussion of theoretical, research, and practice applications.
REC: Hum Dev 102, Hum Dev 343.

HUM DEV 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.
Fall and Spring.

HUM DEV 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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

HUM DEV 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Humanistic Studies (HUM STUD)

Courses

HUM STUD 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.
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.
Fall and Spring.

HUM STUD 220. ESL: Listening and Speaking Across Cultures. 3-6 Credits.
Global and discrete listening and speaking skills for ESL students based on content in intercultural communication. Emphasis on note-taking, listening for main ideas and key details, organizing and delivering speeches, and participating effectively in debates and small and large group discussions.
P: International student status or permission of instructor.
Fall Only.

HUM STUD 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

HUM STUD 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 Grammer 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. Language and Society. 3 Credits.
The study of language in relation to society, including social and regional dialects, bilingualism and language contact, speech communities, the ethnography of language, and applications such as language policy and planning.
P: None. REC: Hum Stud 160.
Fall Only.

HUM STUD 323. The Hebrew Bible (Old Testament). 3 Credits.
Interdisciplinary study of the Hebrew Bible (also called the Old Testament), read and discussed in English.
P: none; REC: jr st.
Fall Even.

HUM STUD 324. The New Testament. 3 Credits.
The origins of the Christian tradition as reflected in the primary texts of that tradition in the New Testament: The major divisions of the writings of the New Testament, the life of Jesus as recorded in the gospels, the importance of St. Paul and the apocalyptic writings of St. John.
P: none; REC: jr st.
Spring Odd.

HUM STUD 326. Non-Western Religions. 3 Credits.
The two major religions of the East, Hinduism and Buddhism: the richness, variety and flexibility of the faith and practice of Hinduism, with its belief in a multiplicity of gods and goddesses; and the various sects and schools of Buddhism--Theravadic, Mayahana, 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 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 340. Science Fiction & Fantasy. 3 Credits.
Interdisicplinary study of fantasy, horror, science fiction, speculative fiction, or other forms of cognitive estrangement. Topics may include 19th-century Science Fiction, Cyborg Culture, Postcolonial Science Fiction, Gothic Horror, Fantasy, Politics in Science Fiction, Gender in Science Fiction among others.
Spring.

HUM STUD 341. Science Fiction Film. 3 Credits.
Interdisciplinary study of science fiction, fantasy, and horror in film.
Fall Only.

HUM STUD 350. Interdisciplinary Study of Great Works. 1-3 Credits.
Interdisciplinary study of one or more works central to the Humanistic tradition. Variable content.
P: jr st.
Fall and Spring.

HUM STUD 351. Interdisciplinary Themes in Humanities. 3 Credits.
Interdisciplinary examination of a single important theme in the Humanities. Variable content.
P: jr st.
Spring.

HUM STUD 352. Literatures in Translation. 3 Credits.
A study of selected works of literatures in translation. A variable content course.
P: jr st.

HUM STUD 356. German Culture. 3 Credits.
The culture of the German-speaking world from the earliest periods to the present with a focus on how contemporary Germany has been shaped by issues of history, religion, art, music, philosophy, and commerce.
Fall Odd.

HUM STUD 357. German Cinema. 3 Credits.
Historical and critical introduction to the work of prominent German filmmakers and to cinematic representations of German culture.
Fall Even.

HUM STUD 360. Globalization and Cultural Conflict. 3 Credits.
This course examines the phenomenon of globalization and its impact on cultural identity as well as the conflicts in values and belief-systems that have arisen in its wake. We will explore the notion of a clash of civilizations and cultures with particular emphasis on the supposed clash between the West and the Islamic world.
REC: jr st
Spring Odd.

HUM STUD 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.
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.
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. Topics vary. May be repeated for credit when different topics are covered.
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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

HUM STUD 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Integrative Leadership Studies (ILS)

Courses

ILS 198. Integrative Leadership Seminar I. 3 Credits.
In this course, students will explore principles of adult learning, apply the basics of effective communication, begin the development of critical and creative thinking, articulate the meaning and value of a major in Integrative Leadership Studies, demonstrate skill in interdisciplinary problem solving, create an electronic learning portfolio, and explore the process of earning credit for prior learning.
P: IST or BAS-IST or ILS or BAS-ILS major
Fall and Spring.

ILS 300. Integrative Leadership Seminar II. 3 Credits.
This course is designed to offer an examination of concepts and issues involved in the study and practice of leadership. We will explore leadership from a variety of perspectives within the humanities, fine arts, social sciences, and natural sciences, since integrative leaders draw upon and consider multiple perspectives to inform their decision-making. We will also identify the basic components of the research process, and research current issues/problems in leadership to meet the critical thinking learning outcome.
P: ILS 198 and Junior Status
Fall and Spring.

ILS 400. Capstone: Synthesis and Assessment of Learning. 3 Credits.
This course helps students synthesize the learning experienced in the Integrative Leadership Studies major, area(s) of emphasis, and core liberal studies courses. Students will demonstrate an integration of problem-solving abilities from multiple fields of study. The capstone provides a platform for discussion, reflection, and discovery about the meaning and value of an interdisciplinary education.
P: ILS 198 or IST 106 and senior status
Fall and Spring.

ILS 478. Honors in the Major. 3 Credits.
An individual contract is developed in consultation with a faculty member who is proficient in the subject matter of the topic and the Chair of the Integrative Leadership Studies program.

ILS 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

ILS 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early inthe semester to the registrar for entry on the student's transcript.

Information Sciences (INFO SCI)

Courses

INFO SCI 198. First Year Seminar. 3 Credits.
Reserved for New Incoming Freshman.

INFO SCI 201. Information, Computers and Society. 3 Credits.
A survey of the social, legal and ethical impacts of computers on individuals and society.
Fall Only.

INFO SCI 210. Information Problems. 3 Credits.
An introduction to understanding and solving information problems, including: a survey of the field of information science; practice in algorithmic thinking; techniques for finding, assessing, organizing, and presenting information; and confrontation with ethical and value issues.
Spring.

INFO SCI 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

INFO SCI 302. Introduction to Data Science. 3 Credits.
This course provides an introduction to data science and provides an overview of useful data science tools. Topics covered will include tools, database management, retrieval and management of data, best practices for effectiveness and mitigating risk.
P: At least 18 credits in COMP SCI, INFO SCI or COMM
Spring.

INFO SCI 308. Information Technologies. 3 Credits.
A survey of information technologies, their operations and limitations, and how the major electronic technologies are changing and affecting both the workplace and the household.
P: 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 pairs up with its COMP SCI counterpart (COMP SCI 232). This course will incorporate a complete study and practice of the mobile application world. Students will explore the mobile applications business from a journalistic and PR point of view. As cross-disciplinary teams, the students in this course pair up with the CS students from CS 232 to design, develop and fully produce one real and unique app. While CS students will focus on the technical aspects of the product, the students in this course will focus on original content creation (such as news stories, brand journalism, video games, videos, etc.) and promotion. This course is open to all IS, Game Studies, Journalism, Mass Media and PR students.
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. Advanced 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 with R.
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 courses involves hands-on exercises with WEKA, Python, and R.
P: MATH 260 or COMP SCI 302 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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

INFO SCI 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Italian (ITALIAN)

Courses

ITALIAN 101. Introduction to the Italian Language I. 4 Credits.
Development in basic ability in understanding, reading, speaking and writing Italian.
Fall Only.

ITALIAN 102. Introduction to the Italian Language II. 4 Credits.
Development in basic ability in understanding, reading, speaking and writing Italian.
REC: 1 yr. h.s. or 1 semester of college Italian.
Spring.

Japanese (JAPANESE)

Courses

JAPANESE 101. Elementary Japanese 1. 4 Credits.
An intensive introduction to practical Japanese with an emphasis placed on the four language skills: understanding, speaking, reading and writing. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.
Fall Only.

JAPANESE 102. Elementary Japanese 2. 4 Credits.
Continuation of Japanese 101. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.
P: Japanese 101.
Spring.

JAPANESE 203. Intermediate Japanese 1. 4 Credits.
Short basic readings, conversations, and grammar. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.
P: Japanese 102.
Fall Only.

JAPANESE 204. Intermediate Japanese 2. 4 Credits.
A continuation of JAPANESE 203 with emphasis on developing facility in oral and written expression. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.
P: Japanese 203.
Spring.

JAPANESE 305. Intermediate Reading, Conversation, and Composition. 4 Credits.
A continuation of JAPANESE 204 with emphasis on developing facility in oral and written expression. A cultural orientation prior to a study-abroad experience Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.
P: Japanese 204.

JAPANESE 375. Japanese Civilization. 3 Credits.
A background of history, art and institutions as an aid to the understanding of Japanese thought in literature as well as culture and to appreciate the Japanese people. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.
P: Japanese 305 and 389.

JAPANESE 389. Special Topic. 3 Credits.
Topics of special interest, dealing with Japanese literature, civilization or culture. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.
P: Japanese 305.

JAPANESE 390. Advanced Conversation, Grammar and Composition. 4 Credits.
Emphasis on developing facility in oral expression based on literatures and cultures. Attention to phonetics, pronunciation and syntax. Development of more difficult and sophisticated patterns of expression. Course is offered at St. Norbert College and is not included in UWGB residency requirement for degree.

Mathematics (MATH)

Courses

MATH 94. Elementary Algebra. 3 Credits.
Intended as a preparation for Math 101. Topics include: properties of real numbers, exponents and polynomials, simplifying variable expressions, linear equations and inequalities, factoring, graphing, and basic quadratic equations. Offered on a pass/no credit, non-degree credit basis only.
Fall and Spring.

MATH 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 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

MATH 305. Ordinary Differential Equations. 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 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 discriminate functions, canonical correlation, cluster analysis, multidimensional scaling. Emphasis on computer analysis of actual data.
P: Math 202 with at least a C grade and 320 with at least a C grade; and Math 260 with at least a C grade or Bus Adm 216 with at least a C grade.
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 inthe 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 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 inthe 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 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 MUSIC ENS 261 or MUSIC ENS 262 or MUSIC ENS 441 or MUSIC ENS 461 or MUSIC 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

MUS APP 301. Keyboard Lessons 5. 1-3 Credits.
Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.
P: Conc enr in or completion of MUSIC 353 or MUSIC 354; Conc enr in MUS ENS 441 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 202
Fall and Spring.

MUS APP 302. Keyboard Lessons 6. 1-3 Credits.
Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.
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 inthe 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 explores 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 explores which include avant garde, graphic, serial, neoclassic, minimalist, and new-romantic.
P: Junior status and audition
Spring.

MUS ENS 363. Chamber Singers. 1 Credit.
Chamber Singers is an auditioned select choral ensemble open to all students. Its repertory consists of music suitable for small chamber choirs, including Renaissance Madrigals, Chansons and Lieder, Romantic Partsongs, and selected music from other style periods.
P: jr st and audition.
Fall and Spring.

MUS ENS 365. Vocal Jazz Ensemble. 1 Credit.
Vocal jazz is open to all students by audition. The ensemble is limited to 20 voices plus rhythm section. Students perform standard jazz literature in a group and solo setting, improvise using scat singing and study contemporary singing styles. The ensemble performs on and off campus.
P: jr st and audition.
Fall and Spring.

MUS ENS 366. Opera 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.

Music (MUSIC)

Courses

MUSIC 102. Concert Attendance. 0 Credits.
Students develop listening skills and an appreciation for and awareness of the breadth of musical genres and repertory through attendance at music concerts. Attendance encourages the development of audience skills, aesthetic appreciation, and a sense of membership in a learning community of musicians.
P: Must be Music major or Music minor
Fall and Spring.

MUSIC 103. Music Technology Tools. 1 Credit.
An introduction to music software and technology commonly used by musicians.
P: conc enr Music 151
Fall Only.

MUSIC 115. Ear Training and Sight Singing I. 1 Credit.
Concentrated drill in all aspects of musicianship. Emphasis on sight singing and aural perception in intervals, melodies, chords and rhythms.
P: conc enr in Music 151.
Fall Only.

MUSIC 116. Ear Training and Sight Singing II. 1 Credit.
Concentrated drill in all aspects of musicianship. Emphasis on sight singing and aural perception in intervals, melodies, chords and rhythms.
P: Music 115;and 152 or Music 153 or concurrent enrollment.
Spring.

MUSIC 121. Survey of Western Music. 3 Credits.
The musical styles of several well-known composers as evident in selected compositions; review of a basic repertoire of musical compositions of various forms and styles.
Fall Only.

MUSIC 151. Music Theory I. 3 Credits.
The materials of which Western music is made are viewed not only in structural terms, but also in psychological, aesthetic and social perspective.
P: conc enr in Music 115; and conc enr in Mus App 11 or 21 or 31 or 13.
Fall Only.

MUSIC 152. Music Theory II. 3 Credits.
The materials of which Western music is made are viewed not only in structural terms, but also in psychological, aesthetic and social perspective.
P: Music 151.
Spring.

MUSIC 198. First Year Seminar. 3 Credits.
First Year Seminar
Reserved for New Incoming Freshman.

MUSIC 209. Applied Composition. 1 Credit.
An individualized approach to the study of music composition, with an emphasis on small-scale forms and small ensemble works.
P: 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 enrl. 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 enrl MUSIC 354.
Spring.

MUSIC 272. Women in the Performing Arts. 3 Credits.
This interdisciplinary course examines the contributions of women in the performing arts and looks closely at the factors which constrain and further women's creativity in a variety of performing genres: dance, theater, opera, musical theater, conducting, composition, etc.
Spring Even.

MUSIC 283L. Integrated Materials in Music. 2 Credits.
A study of the basic materials of music theory with an integrated approach to the visual or aural recognition of those materials.

MUSIC 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

MUSIC 301. Music Technology Systems. 2 Credits.
This course will provide information and experience with the terminology, resources and techniques needed to successfully record, edit, and produce music using a digital audio workstation. In addition, topics such as live sound, analog synthesis, MIDI, and notation software will be explained and used to enhance student-created music.
P: Music 103 and completion or conc enr in Music 152.
Spring Even.

MUSIC 305. Diction for Singers I. 2 Credits.
Introduction to the International Phonetic Alphabet and a specialized approach to diction study for American English and French.
Fall Even.

MUSIC 306. Diction for Singers II. 2 Credits.
Specialized approach to diction study of Italian and German using the International Phonetic Alphabet.
P: Music 305.
Spring Odd.

MUSIC 311. Jazz Improvisation. 1-2 Credits.
Development of skills in musical improvisation: notation and function of chords, chord symbols, scales and rhythms; selected record listening and playing sessions.
P: MUSIC 253
Fall and Spring.

MUSIC 319. Choral/Vocal Techniques. 1 Credit.
This course will provide instruction in: 1) a basic method of teaching vocal production at all levels of public school instruction; 2) basic skills in arranging, adapting, and creating scores for small and large choral ensembles; and 3) basic techniques for choosing high quality choral literature from the Renaissance to the present, suitable for performance at all levels of public school instruction.
P: Music 253 and Mus App 011; and Music 306 or conc enr.
Spring Odd.

MUSIC 333. Basic Conducting. 2 Credits.
Detailed study of conducting techniques: practical application to choral and instrumental ensembles.
P: Music 152 or 153 and one of the following; Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 or 138.
Fall Only.

MUSIC 341. Woodwind Techniques. 2 Credits.
Experience in the performance, pedagogy and critical evaluation of woodwind instruments, including flute, oboe, bassoon, clarinet, and saxophone. Experience arranging and adapting music for woodwind players in school ensembles.
P: Music 152 or 153 and one of the following; Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 or 138.
Fall Even.

MUSIC 342. Brass Techniques. 2 Credits.
Experience in the performance, pedagogy and critical evaluation of brass instruments, including trumpet, French horn, trombone, baritone, and tuba. Experience arranging and adapting music for brass instruments in student ensembles.
P: Music 152 or 153 and one of the following; Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 or 138.
Fall Odd.

MUSIC 343. String Techniques. 2 Credits.
Experience in the performance, pedagogy and critical evaluation of string instruments, including violin, viola, violoncello and string bass. Experience arranging and adapting music for string players inn 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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

MUSIC 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Nursing (NURSING)

Courses

NURSING 407. Foundations of Professional Nursing Practice. 3 Credits.
Philosophical perspectices, 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 inthe 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.
P: BIOLOGY 201 and BIOLOGY 202
Fall Only.

NUT SCI 212. Science of Food Preparation. 4 Credits.
Studies the chemical, physical and microbiological characteristics of food and the manipulation of these factors to meet quality standards. Laboratory activities demonstrate principles of food science as applied to food preparation, sanitation and safety.
P: Chem 108 with at least a C grade or Chem 211 with at least a C grade.
Fall Only.

NUT SCI 242. Food and Nutritional Health. 3 Credits.
A basic course in nutrition with an emphasis on the application of nutrition concepts to personal everyday life. Covers the role of nutrients (calories, carbohydrates, fats, protein, vitamins and minerals) in promoting health. Evaluates a healthy diet and lifestyle.
Fall and Spring.

NUT SCI 250. World Food and Population Issues. 3 Credits.
World hunger and population growth as interrelated problems. Dimensions of the world food situation and its implications; scope, complex causes and effects of malnutrition; general strategies and obstacles to the solution of world food and population problems.
Fall and Spring.

NUT SCI 260. Childhood Obesity: Challenges and Solutions. 3 Credits.
This course will examine the current national and global research related to childhood obesity, with a focus on the physiological, environmental, and behavioral factors that may predispose children and adolescents to obesity. Strategies for effective treatment and prevention will also be examined.
Spring.

NUT SCI 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

NUT SCI 300. Human Nutrition. 3 Credits.
Examines the physiologic and metabolic roles of nutrients and their food sources. Analysis of the nutrient content of diets and requirements for maintenance of health and prevention of chronic diseases.
P: Biology 201/202 with at least a C grade; and Chem 108 with at least a C grade or 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 pathophysiologies. Emphasis is placed on the role of trace-minerals, vitamins and phytochemicals in these pathways.
P: Nut Sci 300 with at least a C grade; REC: Nut Sci 327.
Spring.

NUT SCI 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.
Fall and Spring.

NUT SCI 485. Medical Nutrition Therapy I. 3 Credits.
Theory, principles and application of communication and counseling as applied to behavior changes; principles and application of nutrition assessment and the nutrition care plan process.
P: Psych 102 or Hum Dev 210 with at least a C grade; and Nut Sci 300 with at least a C grade.
Fall Only.

NUT SCI 486. Medical Nutrition Therapy II. 3 Credits.
Principles and applications of nutrition therapy in the management of common and complex diseases; information about health care systems including managed care and reimbursement issues.
P: Nut Sci 485 with a least a C grade.
Spring.

NUT SCI 487. Nutritional Science Seminar. 1 Credit.
This course reviews issues affecting food and nutrition professionals and helps prepare students for career goals. Students will use skills in critical thinking, oral and written communication and self-assessment to prepare a resume and apply to a dietetic internship, graduate school or employment.
P: sr st and enr in Nut Sci/Dietetics emphasis.
Fall Only.

NUT SCI 495. Research in Nutritional Science. 1-5 Credits.
Work closely with a faculty member to plan, perform, evaluate and report on laboratory research in nutritional science or a related field. 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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

NUT SCI 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Philosophy (PHILOS)

Courses

PHILOS 101. Introduction to Philosophy. 3 Credits.
This course will acquaint you with some of the more interesting topics and methodologies in Philosophy. Our principal focus is to learn to identify and evaluate philosophical arguments, which we will do by considering topics that circle our endeavor to grasp and understand ultimate reality. Here are some of the questions we will ask: Does the mind exist apart from the body? Do we have free Will? Is life inherently meaningful? Is moral value something that humans alone possess, or is it present in the world around us? Is there such a thing as a ‘good’ human life?
Fall and Spring.

PHILOS 102. Contemporary Ethical Issues. 3 Credits.
Ethics is one branch of philosophy, and philosophy is an attempt to understand the most basic concepts and theories that people use to understand the nature of the world, human beings, and human beings' place in the world. The main concerns of ethics are the nature of good and evil and the basis of right and wrong conduct. It is easy to form a quick belief about what a good life is, or about whether abortion is right or wrong, whether capital punishment is justified, and so on. Someone may even have some reasons for his/her beliefs on such issues. But in ethics that is not enough. Ethics asks whether the reasons are really good ones, ones that truly justify the belief in question, ones that can truly withstand an objective critical examination, ones that truly fit in well with a solid system of ethical beliefs. This course deals with some of the most important questions of ethics, and tries to answer them on the basis of the highest standards of reasoning. We will first examine a number of different ethical theories. After we have studied ethical theories, we will go on to consider particular ethical issues. These issues will also be critically and systematically examined. Such issues may include abortion, genetic engineering, euthanasia, the death penalty, freedom of speech, war and terrorism, and animal rights.

PHILOS 103. Logic and Reasoning. 3 Credits.
This course introduces the students to the basic concepts and skills of logical reasoning which is central to critical thinking. With the objective of constructing good arguments for successful persuasion and defending ourselves against the illogical and fallacious appeals that bombard us daily, this course examines formal and informal fallacies, rules of syllogisms, and propositional logic and applies these logical tools to samples of real-life situations.
Fall and Spring.

PHILOS 105. 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 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 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

PHILOS 301. Ethical Theory. 3 Credits.
This course aims at acquainting students with a number of major ethical theories in the Western philosophical tradition. Students will read classical and contemporary writings on a number of major ethical topics such as pleasure, egoism, relativism, happiness, moral responsibility, utilitarianism, deontological ethics, and virtue ethics. In addition to the reading, students will focus on reconstructing and critically reflecting the arguments on the issues on these topics in class discussions and writings.
P: none; REC: jr st and one philos cse.
Spring Even.

PHILOS 308. Philosophy and the Sciences. 3 Credits.
Science is often thought to be the ultimate form of objectivity and rational inquiry. But what is 'science'? Is there one scientific method? What reasons do we have to regard it as more truth-conducive than other routes to knowledge? Is there such a thing as a truly unbiased experiment? Do we mean to say that our scientific theories are true? What kind of justification would be required for such claims? And what about the many strange entities of science? Do electrons exist, or are they just useful fictions to fill holes in scientific theories? Are laws of nature real entities?
P: none; REC: Philos 214.
Fall Even.

PHILOS 309. Religion and Medieval Philosophy. 3 Credits.
This course examines main themes in medieval philosophy. After examining the relationship between faith and reason, students will explore the nature of the soul, knowledge, the afterlife, God's existence, the ontology of universals and other important philosophical topics. Readings will include selections from the work of Christian, Islamic and Jewish thinkers like Anselm, Thomas Aquinas, Bonaventure, Duns Scotus, William of Ockham, Maimonides, Averroes and Avicenna.
P: none; REC: Philos 213 and 214.
Spring Odd.

PHILOS 323. Modern Philosophy. 3 Credits.
Course topics vary. In one iteration, this course will work its way through seminal thinkers in nineteenth century philosophy including (though not limited to) Hegel, Marx and Nietzsche. Our aim will be to both connect these thinkers to earlier ideas and trends in Philosophy and to see how they extend such ideas in radically different ways. In another iteration, this course will delve into a somewhat later historical movement in Philosophy - the existentialists. We will begin with the early influence of Russian authors before moving through later thinkers such as Heidegger, Camus and Sartre. The course will include literary and philosophical readings.
P: none; REC: Philos 213 and 214.
Fall Odd.

PHILOS 324. Contemporary Philosophy. 3 Credits.
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 compatibilsim, 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 inthe 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 180. Concepts of Physics. 3 Credits.
Survey of physics, including motion, forces, momentum, energy, solids, liquids, gases, sound, heat, electricity, magnetism, light, atomic and nuclear physics. Designed for non science majors. Full credit will not be granted for both Physics 180 and 103, 104, 201 or 202.
Fall Only.

PHYSICS 181. Concepts of Physics Laboratory. 1 Credit.
Laboratory course to accompany Physics 180. Full credit will not be granted for both Physics 181 and 103, 104, 201 or 202.
P: Physics 180 or conc enr.
Fall Only.

PHYSICS 198. First Year Seminar. 3 Credits.
Reserved for New Incoming Freshman.

PHYSICS 201. Principles of Physics I. 5 Credits.
A calculus physics sequence for students of science and engineering. Includes fundamentals of mechanics, Newton's laws, momentum, energy, fluid statics and dynamics; temperature, heat transfer, thermodynamics; vibrations, waves and sound; electric forces and fields, DC and AC circuits, magnetism; atomic structure, semiconductors; electromagnetic waves, light; relativity, quantum mechanics, nuclear physics and elementary particles.
P: Math 202 with at least a C grade.
Fall Only.

PHYSICS 202. Principles of Physics II. 5 Credits.
A calculus physics sequence for students of science and engineering. Includes fundamentals of mechanics, Newton's laws, momentum, energy, fluid statics and dynamics; temperature, heat transfer, thermodynamics; vibrations, waves and sound; electric forces and fields, DC and AC circuits, magnetism; atomic structure, semiconductors; electromagnetic waves, light; relativity, quantum mechanics, nuclear physics and elementary particles.
P: Physics 201 with at least a C grade and Math 203 with at least a C grade.
Spring.

PHYSICS 310. Modern Physics. 3 Credits.
Modern physics has opened the door to exciting areas of exploration: very fast, very small, and very large. This course first examines the fast and small (relativity and elementary particle physics) then applies them to the large scale field of cosmology.
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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

Political Science (POL SCI)

Courses

POL SCI 100. Global Politics and Society. 3 Credits.
The course explores political power and human connections on a global scale. The course covers concepts and ideas on the interaction of governments, organizations, and peoples across regions, cultures, and communities. The course helps students develop a global outlook on their future prospects as citizens and professionals in a globalized world.
Fall and Spring.

POL SCI 101. American Government and Politics. 3 Credits.
The institutions and political processes of American National government and the nature of political analysis; the Constitution, ideological and cultural bases of American politics; the role of political parties, elections and interest groups; policy-making processes in the Congress, the presidency and courts.
Fall and Spring.

POL SCI 198. First Year Seminar. 3 Credits.
Reserved for New Incoming Freshman.

POL SCI 202. Introduction to Public Policy. 3 Credits.
Contemporary issues in American public policy. Substantive public policies such as those dealing with the American economy, 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

POL SCI 301. Environmental Politics and Policy. 3 Credits.
U.S. and global environmental problems and their political implications. Emphasizes U.S. environmental politics, issues and controversies in environmental protection policy, the performance of governmental institution in response to environmental challenges, and strategies for environmental improvement.
P: Pol Sci 101 or 202 or Pu En Af 202.
Fall and Spring.

POL SCI 305. Urban Politics and Policy. 3 Credits.
Structures and operations of city governments and their responses to policy issues such as education, employment, social welfare, housing, transportation, migration, racial discrimination, urban sprawl and social inequality. 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 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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

POL SCI 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Psychology (PSYCH)

Courses

PSYCH 102. Introduction to Psychology. 3 Credits.
Understanding of behavior from psychophysiological, cognitive, social and clinical perspectives; important issues, methods and findings in the study of psychological process.
Fall and Spring.

PSYCH 198. First Year Seminar. 3 Credits.
First Year Seminar, topics vary.
Reserved for New Incoming Freshman
Fall Only.

PSYCH 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

PSYCH 300. Research Methods in Psychology. 4 Credits.
Experimental methods in psychological research; designing and drawing conclusions from experimental research; critiques of research reports; individual and group laboratory projects.
P: PSYCH 102; COMM SCI 205 or MATH 260 or BUS ADM 216. REC: COMM SCI 205.
Fall and Spring.

PSYCH 308. Physiological Psychology. 3 Credits.
Introduction to the biological bases of behavior. Basic sensory, motor, and brain mechanisms are described in reference to normal and abnormal behaviors. Drugs and hormone effects on infants and adults are also discussed.
P: Psych 102 AND Hum Biol 102 or Biology 201/202 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. Cognitive 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 cognitive processes such as cognitive control, decision-making, memory, language, and attention. Neuroscience refers to the science of the nervous system. Thus, Cognitive Neuroscience is the study of the neurological correlates of thought. However, it’s much more than that. This field is founded on the idea that all thought, indeed all behavior, originates in the nervous system. Cognitive Neuroscience seeks to understand the design and operating principles of the mind, as instantiated in the brain.
P: Psych 102
Fall and Spring.

PSYCH 321. Sport and Performance Psychology. 3 Credits.
This course is intended to provide a general overview of sport psychology in a mixed lecture and discussion-based context. Students should expect to learn basic sport 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 Hum Dev 302.
Fall and Spring.

PSYCH 350. Psychology and Culture. 3 Credits.
A cross-cultural examination of core psychological processes and areas of study, such as cognition, emotion, development, and personality.
P: Sophomore status; Psych 102
Fall Only.

PSYCH 380. Conservation Psychology. 3 Credits.
Conservation Psych seeks to understand and motivate humans to practice sustainable behavior.
P: None REC: Psych 102
Fall Only.

PSYCH 390. Environmental Psychology. 3 Credits.
Human-environment relationships; examines ways in which the physical environment influences human behavior.
P: Psych 102.
Spring.

PSYCH 401. Psychology of Women. 3 Credits.
The psychology of women examines traditional and feminist approaches to women in psychological theory and research as frameworks for understanding women's development and experience in family, academic, work, and relationship roles. The interacting influences of biology, socialization, and cultural context are considered.
P: Psych 102.
Fall and Spring.

PSYCH 415. Organizational and Personnel Psychology. 3 Credits.
Examines the human side of organizations from a scientific framework. Topics include job analysis, performance appraisal, employee selection, training, motivation, job satisfaction, work teams, leadership, and organization development.
P: junior status; Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 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: junior status; Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 302
Fall and Spring.

PSYCH 420. Psychological Testing. 3 Credits.
An overview of the uses and underlying psychometric concepts of psychological tests. Examines selected tests in the areas of intelligence, personality, achievement, and interest assessment. Discusses controversial social, legal, ethical, and cultural issues related to testing.
P: jr. st
Fall Only.

PSYCH 424. Psychology of Emotion. 3 Credits.
This is an advanced undergraduate psychology course designed to expose students to the science of emotion. Students will become acquainted with the many ways in which biological, cultural, cognitive, and other factors can contribute to our emotions.
P: Psych 102 and Psych 300 or Hum Dev 302.
Fall Only.

PSYCH 429. Theories of Personality. 3 Credits.
Major ideas about the organization, function, change and development of human personality as discussed by a variety of personality theorists.
P: Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 302.
Fall and Spring.

PSYCH 435. Abnormal Psychology. 3 Credits.
Major psychological, biological, and sociocultural models of abnormal behavior, including problems of childhood, adolescence, and aging. Contextual issues are emphasized, including the influence of culture, social class, and gender on diagnosis and treatment.
P: Psych 102
Fall and Spring.

PSYCH 438. Counseling and Psychotherapy. 3 Credits.
This class provides an introduction to many contemporary approaches to counseling and their theoretical and research base. It also addresses issues relevant to professional practice in the field, along with the roles of development, values, ethics, and context/culture in the counseling process.
P: Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 302.
Fall and Spring.

PSYCH 440. Multicultural Counseling and Mental Health. 3 Credits.
This course involves an exploration of cultural groups, beliefs, and practices within the U.S. and focuses on ways that culture, race, ethnicity, and associated concepts, such as oppression and privilege, influence definitions and treatments of mental illness.
P: sophomore status; Psych 102 AND Psych 435 or Psych 438
Spring.

PSYCH 450. Health Psychology. 3 Credits.
This course examines how health, illness, and medicine can be studied from a psychological perspective. Topics include coping with stress, leading a healthy lifestyle, factors influencing smoking, alcohol use, and exercise, the patient-practitioner interaction, and chronic and terminal illness.
P: junior status; Psych 102 AND Psych 300 or Comm Sci 301 or Hum Dev 302
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. Senior Capstone in Psychology. 3 Credits.
Exploration of a particular topic pertaining to psychology from an interdisciplinary perspective. The topic will vary from semester to semester.
P: PSYCH 300; senior status REC: To be taken in the last semester before you graduate.
Fall and Spring.

PSYCH 495. Teaching Assistantship. 1-6 Credits.
Students will learn the different components related to successful instruction. This will include theoretical perspective, empirical research, and pedagogical techniques relating to teaching that they can apply to a broad array of future teaching and learning experiences.
P: Psych 102 or Hum Dev 210, and 3.0 GPA in Human Dev/Psych, and consent of inst; REC: sr st.
Fall and Spring.

PSYCH 496. Research Assistantship. 1-6 Credits.
Students will assist faculty in conducting research. Responsibilities may include literature reviews, library investigations, questionnaire development, recruitment and interviewing of research participants, data collection, management of research studies, data entry, and some statistical analysis.
P: Psych 102 and consent of instr. REC: Psych 300 or Comm Sci 205.
Fall and Spring.

PSYCH 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.
P: jr st and gpa > or = 3.00.
Fall and Spring.

PSYCH 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

PSYCH 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Public & Environmental Affairs (PU EN AF)

Courses

PU EN AF 102. Environment and Society. 3 Credits.
An examination of the relationship between humans and the biophysical environment at local, national, and global levels. Emphasis is given to the impact of personal attitudes, cultural beliefs, economics, politics, technology and available resources on environmental problems and solutions.
Fall and Spring.

PU EN AF 198. First Year Seminar. 3 Credits.
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.
Fall Only.

PU EN AF 250. Introduction to Geographic Information Systems (GIS). 2 Credits.
Computerized Geographic Information Systems (GIS) represent revolutionary software advancement that allow sophisticated information management, analysis and mapping with computer systems. In this class you will learn basic principles for creation and analysis of digital maps, cartographic concepts, and experience an intensive introduction to GIS software (e.g., ArcGIS).
Fall and Spring.

PU EN AF 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

PU EN AF 301. Environmental Politics and Policy. 3 Credits.
U.S. and global environmental problems and their political implications. Emphasizes U.S. environmental politics, issues and controversies in environmental protection policy, the performance of governmental institution in response to environmental challenges, and strategies for environmental improvement.
P: Pol Sci 101 or 202 or Pu En Af 202.
Fall and Spring.

PU EN AF 305. Natural Resources Economic Policy. 3 Credits.
Acquaints the student with policies leading to arrangements for the development, management, and use of natural resources. Emphasizes the longer time horizon required for the conservation of resources and a general concern for the quality of ecosystems.
P: Econ 203.
Fall Only.

PU EN AF 306. Regulatory Policy and Administration. 3 Credits.
The origins, purposes and operation of regulatory agencies and the programs in the U.S.: theories of regulation, issues and controversies in regulatory policy, and decision-making in such areas as economic regulation, public health, consumer protection workplace safety and environmental quality.
P: Pol Sci 101 or 202 or Pu En Af 202.
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.
Various forms of public land-use controls in planning and administration, addressing "what, why and how" aspects of land-use controls. Smart Growth, Environmental Impact Analysis, and other comprehensive planning models studied.
P: jr st.
Spring.

PU EN AF 324. Transitioning to Sustainable Communities. 3 Credits.
This course focuses on creating resilient communities based on localizing inputs/outputs to support jobs, housing, transportation, schools, agriculture and city services. It emphasizes the many facets of human settlements and the limited resources we depend on to structure our social, economic, and environmental systems, making them self-sustaining, energy-efficient, and reliant on local control for job creation, wealth creation, food production and other land use issues. Applying these innovative measures in every sector of daily life makes communities more resilient as they face higher energy costs and climate variability.
Fall Only.

PU EN AF 335. Principles and Practices of Emergency Management. 3 Credits.
The philosophy of comprehensive Emergency Management will be discussed with the four attendent steps, which include mitigation, preparedness, response and recover. In addition, legal issues involving state and Federal law effecting emergency operations will be studied.
REC: Pu En Af 315.

PU EN AF 336. Strategic Emergency Preparedness, Planning and Implementation. 3 Credits.
Strategic planning and budgeting is a very important component in emergency planning and mitigation. Learn how to acquire and allocate resources, plan for crises with or without warning, and implement preparedness programs.

PU EN AF 337. Disaster Response Operations and Management. 3 Credits.
Examine the roles and responsibilities of the players in a crisis event. Explore the various problems associated with response operations such as: inadequate preparedness measurers, safety and site security, politics, and record keeping.

PU EN AF 338. Disaster Recovery. 3 Credits.
Examine disaster recovery in isolation. Explore the short and long term effects of disasters, as well as, the process of putting families, businesses and communities back together. You will learn the importance of reconstruction and relocation.

PU EN AF 339. Political and Policy Dimensions of Emergency Management. 3 Credits.
This course considers the political and policy environment in which emergency management is practiced. It focuses on political processes and phenomena associated with mitigating the likely effects of extreme events, responding to them, and recovering from them. The course is intended to help emergency managers develop an understanding of local, state, federal, and intergovernmental politics affecting and affected by extreme events.

PU EN AF 344. Leadership in Organizations. 3 Credits.
Roles, functions and environments of organizational managers and leaders broadly defined, especially in public enterprises; issues of human resources management within these sectors.
Fall Odd.

PU EN AF 345. Public and Nonprofit Human Resource and Risk Management. 3 Credits.
Risk and human resource management as it affects not-for-profit organizations. This course is applicable to both nonprofit and governmental entities who utilized paid or volunteer staff and face multiple sources of risk to their functioning. Topical coverage will include risk assessment and planning as well as staff development, performance standards, and professional practices regarding proper interviewing, hiring, evaluation and dismissal procedures. Legal requirements and the institutional setting for both human resource and enterprise risk management will be examined.
Fall Only.

PU EN AF 350. GIS in Public and Environmental Policy. 2 Credits.
Uses state-of-the-art software to integrate digitized data maps, transfer data, manage relational data bases, overlay maps, display, query, edit interactive graphics, and geocode addresses. Focus is upon GIS applications tailored to public and environmental policy, e.g., tax base analysis, property mapping, natural resources inventory, crime demography, transportation routing, natural hazards, and emergency management.
P: Pu En Af 250
Fall and Spring.

PU EN AF 351. Water Resources Policy and Management. 3 Credits.
This course will cover the basics of water management and planning, covering local to global examples of such things as surface water pollution, mining of fossil aquifers, water wars at regional, interstate, and international levels.
P: Pu En Af 102 or Env Sci 102.
Spring.

PU EN AF 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 be upon the nature of systems thinking systems dynamics, and problem solving. Will address systems dynamics in natural world policy creation, human creativity and the arts, and business decision making. Latter half of class is applications focussed.
P: jr st & EMBI certificate enrollment
Fall and Spring.

PU EN AF 402. Environmental and Resource Economics. 3 Credits.
Applications of tools such as cost-benefit analysis and other economic concepts in current public decision making, with special emphasis upon common property resources management.
P: Econ 303 or 305.
Spring.

PU EN AF 406. State and Local Government. 3 Credits.
Policy and institutional comparisons across states and local governments through hands-on research, placing a special focus on Wisconsin's local governments.
P: Pol Sci 101 or Pu En Af 215.
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 215; REC Pu En Af 315.
Fall Only.

PU EN AF 426. Strategic Philanthropy: Civic Engagement Through Giving. 3 Credits.
A hands-on course where students learn the motives, methods, and values of philanthropy by studying local data, working with nonprofits and donors, and allocating actual funds (provided by community partners) to organizations in the community. Appropriate for all majors.
P: Junior status
Spring.

PU EN AF 428. Public and Nonprofit Program Evaluation. 3 Credits.
A service-learning course that develops a working understanding and selected skills relating to the conduct of program evaluations. Throughout the semester, students develop an actual evaluation plan in partnership with a local public or nonprofit organization.
P: Pu En Af 215; REC: 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 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 Methods. 3 Credits.
The course will focus on planning methods for public and private sector agencies and businesses in the design and planning fields. Spatial analysis, Creating Comprehensive Plans, Neighborhood community development plans, and strategic planning methods will be discussed. How to conduct Charrettes and writing staff reports within the context of public participation will be explored.
P: Jr Standing
Fall Even.

PU EN AF 453. Cost Benefit Analysis. 3 Credits.
Application of tools and concepts in current economic decision making, with special emphasis upon Natural Resource management, environmental problems, market failure, and public policy approaches.

PU EN AF 461. Special Topics in Public and Environmental Affairs. 3 Credits.
An interdisciplinary study of public policy issues selected from public administration and environmental policy and planning. Includes issues such as health care reform, environmental policy analysis, policy planning.

PU EN AF 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.
Fall and Spring.

PU EN AF 490. EMBI Co-Op/Experience. 3 Credits.
Required component of the Certificate in Environmental Sustainability and Business. Enrolled students will be placed by EMBI in a business, nonprofit, or governmental setting that involves interdisciplinary problem solving within an environmental sustainability context. This will be a special co-op/ internship/project experience.
P: Junior standing and enrollment in Environmental Sustainability and Business certificate program.
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 Assistantship. 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 inthe 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 career opportunities in the human services; explores such fields of practice as aging, corrections, alcohol and substance abuse, child welfare, mental health and the developmentally disabled.
Fall Only.

SOC WORK 250. You and Your Future: Living and Working in an Aging Society. 3 Credits.
This interactive service learning course explores contemporary topics in aging including anti-aging technology, multi-generational workplace issues, public policy issues, family and intergenerational caregiving, and programs and services for older adults. Second Life virtual reality technology is used in the course.

SOC WORK 275. Foundations of Social Welfare Policy. 3 Credits.
Overview of the U.S. social welfare institution, including the development of policies and services to meet social problems and the institutional arrangements that provide people with the resources and services to meet their needs.
P: Eng Comp 105 or conc enr.
Fall Only.

SOC WORK 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

SOC WORK 300. 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
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
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
Fall Only.

SOC WORK 313. Social Work Skills Lab I. 1 Credit.
Instruction and practice in basic interviewing skills for the beginning social work professional.
P: conc enr in Soc Work 305.
Fall Only.

SOC WORK 323. Social Work Skills Lab II. 1 Credit.
Instruction and practice in interpersonal skills required for working 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: conc enr in Soc Work 370.
Spring.

SOC WORK 330. Understanding Diversity, Challenging Oppression: A Service Learning Course for Helping Professionals. 3 Credits.
Service learning course on working with diverse groups and communities for persons considering a career in the helping professions.
P: Sophomore status.

SOC WORK 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
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
Spring.

SOC WORK 375. Family Principles and Patterns. 3 Credits.
This course is designed to increase familiarity with the family unit and its social role. Topics include basic principles of the family life cycle, how privilege and social positioning impact family life, and typical transitions and challenges experienced by the family.
P: Jr Standing.

SOC WORK 380. Cross Cultural Diversity and the Helping Professions. 3 Credits.
Students who will work with diverse individuals and groups seeking professional services will learn to do so in a culturally relevant manner. Course content specifically focuses on the application of culturally relevant work in the helping professions.
P: sophomore standing.

SOC WORK 395. Special Topics in Social Work. 1-3 Credits.
In-depth coverage of topics not covered by regular courses, such as substance use, mental health problems, interpersonal violence, PTSD, aging, homelessness, LGBTQ issues, religion, spirituality, globalization, and others. Offerings of different topics can be repeated for credit.
P: so st.; REC: Eng Comp 105.

SOC WORK 402. Field Practicum I. 5 Credits.
Actual social service work through placement in a social service agency.
P: Major in SOC WORK, conc enr in Soc Work 411, earned grade of "C" or higher in SOC WORK 300
Fall Only.

SOC WORK 403. Field Practicum II. 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
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
Fall Only.

SOC WORK 413. Social Work Skills Lab III. 1 Credit.
Instruction and practice in advanced interviewing skills needed by the beginning social work professional.
P: conc enr in Soc Work 411.
Fall Only.

SOC WORK 420. Social Work Methods III. 3 Credits.
Theory and methods of planned change interventions with specific populations at risk; integration of micro and macro level practice, with an emphasis on community organizing; evaluation of practice; and termination.
P: Soc Work 411.
Spring.

SOC WORK 423. Social Work Skills Lab IV. 1 Credit.
Instruction and practice in professional interactional skills focusing on small and large groups, and specialized intervention skills.
P: conc enr in Soc Work 420.
Spring.

SOC WORK 431. Social Policy Analysis I. 2 Credits.
Instruction and practice in analyzing social problems and related policies; observation with local government policy making; application of skills to specific policy and its implementation in the community.
P: Soc Work 275 and SOC WORK 370 and 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: 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: 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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

SOC WORK 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Sociology (SOCIOL)

Courses

SOCIOL 202. Introduction to Sociology. 3 Credits.
Major sociological concepts and ideas and their application to contemporary problems of societies.
Fall and Spring.

SOCIOL 203. Ethnic and Racial Identities. 3 Credits.
The character of racial, religious and ethnic minority groups; social and economic adjustments in American society; the role of private and public agencies.
P: Sociol 202 or Anthro 100.
Fall Only.

SOCIOL 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

SOCIOL 302. Class, Status and Power. 3 Credits.
Class, status and power as determinants of group interests, preferences, ideologies and struggles; examination at the national and international levels.
P: Sociol 202.
Spring Even.

SOCIOL 303. Race and Ethnic Relations. 3 Credits.
Comparative study of race and ethnic relations in the United States and other countries. The focus is on theories of race relations and ethnic stratification and the importance of these issues in national and international perspective. Case studies of ethnic relations in particular countries (e.g., South Africa, Brazil, Malaysia, Lebanon, Soviet Union) will be emphasized.
P: Sociol 202 or 203 or intro level soc sci cse.
Fall Odd.

SOCIOL 304. Deviant Behavior. 3 Credits.
Foundations of morality and the relationship between morality and deviance; positive and negative aspects of both deviance and conformity.
P: Sociol 202.

SOCIOL 307. Social Theory. 3 Credits.
Critical analysis of classical and contemporary social theories with attention to the social and intellectual context and contemporary application.
P: Sociol 202.
Fall Even.

SOCIOL 308. Sociology of the Family. 3 Credits.
A sociological approach to marriage and families in American society: historical changes in family life; the problems of defining family; social class; ethnicity and gender as key variables in family power; life transitions; and divorce and remarriage.
P: 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 202.
Fall Only.

SOCIOL 315. Street Gangs in America. 3 Credits.
Organization of and subculture of street gangs in American communities; differences among ethnic/racial street gangs; representation of gang identity through graffiti, tattoos, clothing, music; gang membership and wannabes.
P: Sociol 202 or Anthro 100 or Ur Re St 100.
Spring Odd.

SOCIOL 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 202 or ANTHRO 100. REC: SOCIOL 202
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 404. Criminology. 3 Credits.
Criminology is a survey of the theories and methods sociologists use to study crime and delinquency. The course presents the disciplinary history of criminology and critically examines the structure and function of the criminal law and punishment.
P: SOCIOL 202 or 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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

SOCIOL 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Spanish (SPANISH)

Courses

SPANISH 101. Introduction to the Spanish Language I. 4 Credits.
Development of basic ability in understanding, reading, speaking and writing in Spanish.
Fall Only.

SPANISH 102. Introduction to the Spanish Language II. 4 Credits.
Development of basic ability in understanding, reading, speaking and writing in Spanish.
P: none; REC: 1 yr h.s. or 1 sem college Spanish.
Spring.

SPANISH 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. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

SPANISH 328. Introduction to Cultural Studies in Spanish. 3 Credits.
This course is designed to introduce students to the interdisciplinary study of a variety of topics related to the cultures of the Spanish speaking world. It incorporates political, social, and cultural perspectives and provides students with academic writing, research, and critical thinking skills in the field of cultural studies.
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 438. Major Spanish and Latin American Writer(s). 3 Credits.
Study of an outstanding figure in Spanish and Latin American literatures.
P: Spanish 328 OR Spanish 225 OR concurrent enrollment in Spanish 328
Spring Odd.

SPANISH 465. Special Topics. 3 Credits.
This variable content course will allow students to analyze seminal aspects pertaining to the language, history and cultures of Spain, Latin America and the Spanish-speaking communities in the United States.
P: Major or Minor in Spanish and Spanish 328; REC: Spanish 329.

SPANISH 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.
Fall and Spring.

SPANISH 485. Study Abroad:Spain and Latin America. 3-15 Credits.
Students register for this course before departing. Upon return to U.S. they must submit course descriptions and written evaluations from their professors, together with a formal certificate and a letter grade.
P: cons of instr & prior trip arr & financial deposit.
Fall and Spring.

SPANISH 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.
Fall and Spring.

SPANISH 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early inthe 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 219. UWGB Meets NYC: New York Theatre Trip. 1 Credit.
6-day and 5-night theatre trip to New York City. An opportunity to see up to five Broadway and Off-Broadway productions in addition to art museum and theatre-related tours.
P: cons of instr & prior trip arr & financial deposit; REC: Thea major.
Spring Even.

THEATRE 220. Stage Management. 3 Credits.
Procedures and functions of the professional and non-professional stage manager; includes skills such as department organization, scheduling and rehearsal procedures, and communications.
P: conc enr in Theatre 335, 336, 338 or 339.
Fall Even.

THEATRE 221. Stagecraft. 4 Credits.
Organization and operation of theatre productions: basic scenery construction, scene shop and theatre safety.
P: conc enr in Theatre 338.
Fall Only.

THEATRE 222. Costume Technology. 4 Credits.
Organization and operation of theatre productions: basic costume construction and costume shop operations.
P: conc enr in Theatre 335, 336, 338 or 339; REC: Theatre 221.
Fall and Spring.

THEATRE 223. Computer Applications for Theatre. 3 Credits.
This course will introduce/develop student proficiency in the use of VectorWorks (CAD) program in scenic and lighting applications as well as other technically-related data management and visualization software.
P: conc enr in Theatre 335, 336, 338 or 339.
Fall Odd.

THEATRE 224. Introduction to Theatre Design. 3 Credits.
An introduction to the fundamental principles of design and their applications in the performing arts. Students will study the vocabulary and communication of design elements through research and hands-on projects.
Spring Odd.

THEATRE 228. Jazz Dance II. 2 Credits.
Continued study and execution of the style and techniques of jazz dance. Study of the styles of major choreographers in American musical theater.
P: Theatre 128; REC: conc enroll in ballet or modern dance.
Spring.

THEATRE 231. Acting II. 3 Credits.
Scene work in realistic dramas; practice in techniques of script analysis and character development.
P: Theatre 131.
Spring.

THEATRE 233. Voice for the Actor I. 3 Credits.
Introduction to principles of vocal training systems used in actor training. Provides students with a working knowledge of their vocal and physical capabilities. Work on breathing, posture, and development of warm-up procedures.
Fall Only.

THEATRE 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 inthe semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

THEATRE 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

THEATRE 302. Dramaturgy-Playwriting. 3 Credits.
P: None.

THEATRE 305. Audition Techniques for the Actor. 3 Credits.
Preparation of classic and contemporary monologues and scenes, professional resumes and photos; dealing with the business aspects of establishing a career as an actor.
P: Theatre 231.
Fall Only.

THEATRE 309. Theatre History I:Greek to Elizabethan. 3 Credits.
Theatre history and literature, from Greek to Elizabethan.
Fall Odd.

THEATRE 310. Theatre History II: 17th Century to Realism. 3 Credits.
Theatre history and literature, from 17th century to 19th century.
P: none; REC: Theatre 309.
Fall Even.

THEATRE 311. Theatre History III: 20th Century and Contemporary. 3 Credits.
Theatre history and literature, 20th century and contemporary.
P: none; REC: Theatre 309 and 310.
Spring Odd.

THEATRE 321. Scene Design. 4 Credits.
Practical techniques of scene design: mechanical drawing, rendering and model building for the theatre. Develops ability to create the visual and mechanical environment to support the presentation of theatre pieces.
P: Theatre 221, 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.
Fall and Spring.

THEATRE 336. Production Practicum: Performance. 1 Credit.
Performance in a theatre production.
Fall and Spring.

THEATRE 338. Production Practicum: Scene Shop. 1 Credit.
Complete production work in scene shop preparation.
Fall and Spring.

THEATRE 339. Production Practicum: Costume Shop. 1 Credit.
Complete production work in costume shop preparation.
P: Theatre 222.
Fall and Spring.

THEATRE 340. Dance History. 3 Credits.
Origins and chronological development of dance styles, including ballet, modern, jazz, musical theater and social dance. Major works and personalities influencing dance from aboriginal cultures to the present day.
Fall Odd.

THEATRE 351. Directing I. 3 Credits.
Theories and techniques of theatrical staging and the relationship of the director to the actors and designers. Study of script analysis and rehearsal technique.
P: Theatre 131; and conc enr in Theatre 335, 336, 338 or 339.
Fall Only.

THEATRE 352. Directing II. 3 Credits.
Advanced theories and techniques of theatrical performance through staging and directing exercises.
P: Theatre 351.
Spring Even.

THEATRE 356. Production Practicum: Properties and Scene Painting. 1 Credit.
Production work in properties preparation and scenic painting.
Fall and Spring.

THEATRE 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.

THEATRE 421. Scene Painting. 3 Credits.
A Project oriented course incorporating the tools, materials, and techniques necessary to prepare a variety of visual textures and details necessary in theatrical scenic environments. Projects include Marble, Brick, Stone, Granite, Stencils, wood, Foliage, Metallic or Glass surfaces and a large detailed Final Group Project.
Fall Odd.

THEATRE 422. Costume Crafts. 3 Credits.
Advanced instruction in special topics in costume technology, including but not limited to Millinery, Painting and Dyeing, Corsetry and Padding, Pattern Drafting and Draping, Masks, Armor, and Distressing.
P: Theatre 221 and 222; and conc enr in Theatre 335 or 336 or 338 or 339.

THEATRE 423. Advanced Stage Lighting. 3 Credits.
Aesthetic practice of lighting in theatrical production, emphasizing programming and analysis. Practical application of the tools used in lighting.
P: Theatre 224 and 323; conc enr in Theatre 335, 336, 338 or 339.
Spring Even.

THEATRE 426. Sound for Theatre. 3 Credits.
A Project oriented course exploring the design process used for creating, selecting and editing music/sound effects for a theatrical production. Aesthetic and technical aspects of designing sound are discussed, demonstrated and realized. The course will culminate with each student creating and presenting a complete sound design for a specific script.

THEATRE 433. Vocal Specialization. 1 Credit.
Detailed production specific vocal work for special problems and/or solutions to character development and vocal production issues.
Fall and Spring.

THEATRE 440. Choreography. 3 Credits.
Technical forms and applications for composition of movement. Study of rhythmic patterns and their relationships to movement, creative content, musical interpretation, projection and dynamics. Includes movement and placement for large ensembles.
P: Theatre 228.
Fall Even.

THEATRE 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.
Fall and Spring.

THEATRE 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 inthe 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.
Contemporary geography, its viewpoints and methodology; geographic reality of the present-day world is analyzed through case studies using both the regional approach and systematic analysis.
Fall Only.

UR RE ST 198. First Year Seminar. 3 Credits.
Reserved for New Incoming Freshman
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 210. Drawing Systems for the Designer. 3 Credits.
The theory and practical application of various drawing systems, including orthographic, axiometrics, and perspectives, and their use as aids in the design process.
P: none; REC: Art 106.

UR RE ST 216. Native American Landscapes:Imagined and Lived Spaces. 3 Credits.
The course will explore the relationship between time and space within Native American cultures. The course will compare North American indigenous landscapes and Andean indigenous landscapes.

UR RE ST 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

UR RE ST 305. Urban Politics and Policy. 3 Credits.
Structures and operations of city governments and their responses to policy issues such as education, employment, social welfare, housing, transportation, migration, racial discrimination, urban sprawl and social inequality. 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 202.
Fall Only.

UR RE ST 312. Community Politics. 3 Credits.
This course emphasizes the historical dimensions of community politics in the U.S. It also explores the role of grass roots social movements in shaping local politics.
P: none; REC: Pol Sci 101.
Spring.

UR RE ST 313. The City Through Time and Space. 3 Credits.
Analysis of human settlement and the influence of social, economic and technological change on urban structure and the aesthetic qualities of city scapes in historical and cross-cultural settings.
P: jr st; and Ur Re St 100 or 341 or Geog 341.
Spring.

UR RE ST 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 202 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 affection 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 student 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 360. GIS and the Urban World. 3 Credits.
This course applies geographic information systems (GIS) techniques to real-world urban problems in the context of pertinent theoretical foundations. It is designed to provide a background in GIS-based spatial analysis approaches and develop an understanding of the operational basis of GIS technology while furthering the comprehension of the urban problems themselves.
P: GEOG 250 or PU EN AF 250
Spring.

UR RE ST 370. Geography of South America. 3 Credits.
A survey course which will explore the physical features, resources, people, and the political economy of the American southern hemisphere.
P: None
Fall Even.

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 452. Planning Methods. 3 Credits.
The course will focus on planning methods for public and private sector agencies and businesses in the design and planning fields. Spatial analysis, Creating Comprehensive Plans, Neighborhood community development plans, and strategic planning methods will be discussed. How to conduct Charrettes and writing staff reports within the context of public participation will be explored.
P: Jr Standing
Fall Even.

UR RE ST 454. Designing Communities and Neighborhoods. 3 Credits.
The main objective of the course is to allow students to engage and critically assess design elements that create places that foster community identity addressing the vexing problems in residential, commercial, office, recreational and public areas in small cities.
P: UR RE ST 100; REC: UR RE ST 341.
Spring.

UR RE ST 461. Special Topics in Urban and Regional Studies. 3 Credits.
A multi-disciplinary investigation into a special topic within urban and regional studies. Includes topics such as education, employment, housing and transportation, and urban and regional policy.
P: written cons of inst.

UR RE ST 478. Honors in the Major. 3 Credits.
Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.
Fall and Spring.

UR RE ST 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.
P: jr st.
Fall and Spring.

UR RE ST 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early inthe 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 198. First Year Seminar. 3 Credits.
First Year Seminar, topics vary.
Reserved for New Incoming Freshman.

WOST 205. Women in Literature. 3 Credits.
Surveys both women as writers and women as characters in literature; emphasizes the wisdom, experiences and insights of women writers and women in literature; concerned with literature from two or more cultures and comparison of the social and human values reflected in the literature of those cultures.
Fall Only.

WOST 206. Fertility, Reproduction, and Family Planning. 3 Credits.
Factors that influence reproduction and fertility, i.e., physiological, psychological, social, cultural, and ethical; the methods available for limiting or increasing reproduction; the nature of family planning programs.
P: Hum Biol 102 or Biology 201/202.
Fall and Spring.

WOST 241. Introduction to Women's & Gender Studies. 3 Credits.
Interdisciplinary introduction to the study of gender, 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 272. Women in the Performing Arts. 3 Credits.
This interdisciplinary course examines the contributions of women in the performing arts and looks closely at the factors which constrain and further women's creativity in a variety of performing genres: dance, theater, opera, musical theater, conducting, composition, etc.
Spring Even.

WOST 299. Travel Course. 1-4 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

WOST 324. The Biology of Women. 3 Credits.
This course will examine the physiology of the adult female body and will address health issues that are unique to or different in women. Emphasis will be placed on the effects of female sex hormones on multiple processes (reproductive, nervous, endocrine, and cardiovascular) in the body.
P: Hum Biol 102 with at least a C grade or Biology 201/202 with at least a C grade.
Spring.

WOST 336. Gender Development Across the Lifespan. 3 Credits.
An interdisciplinary analysis of changes in biological, social, and identity development for males and females throughout the life span. The development and variation of sexual orientation and gender expression will be discussed.
P: Hum Dev 102 or DJS 241. REC: Comm Sci 301 or Hum Dev 302
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. 3 Credits.
The psychology of women examines traditional and feminist approaches to women in psychological theory and research as frameworks for understanding women's development and experience in family, academic, work, and relationship roles. The interacting influences of biology, socialization, and cultural context are considered.
P: Psych 102.
Fall and Spring.

WOST 437. Feminist Theory. 3 Credits.
This course is an introduction to feminist theories from a variety of disciplinary perspectives; we will examine the development of feminist theories, their practice and contrasting viewpoints.
P: DJS 241.
Spring Even.

WOST 497. Internship. 1-12 Credits.
Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.
P: jr st.
Fall and Spring.

WOST 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.
P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.
Fall and Spring.

WOST 499. Travel Course. 1-6 Credits.
Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.
P: cons of instr & prior trip arr & financial deposit.

Faculty Members

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

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

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B

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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

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

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

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

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

Alise Coen; Assistant Professor; Ph.D., University of Delaware

Kevin J Collins; Associate Professor; M.M., University of Texas - Austin

De Fulton Cortes; Assistant Professor; Doctorate, Centro de Investigación y Docencia en Humanidades del Estado de Morelos (CIDHEM)

David N Coury; Professor; Ph.D., University of Cincinnati

Jason Cowell; Assistant Professor; Ph.D., University of Minnesota

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

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

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

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

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

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

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

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

Shauna M Froelich; Lecturer; JD, Marquette University

G

Adam W Gaines; Associate Professor; D.A., Ball State University

Susan M Gallagher-Lepak; Professor; Ph.D., University of Wisconsin - Madison*

Clifton G Ganyard; Associate Professor; Ph.D., State University of New York at Buffalo

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

Matthew Geimer; Lecturer

Benajamin Jay Geisler; Lecturer; M.S., University of Wisconsin-Madison

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

Joan M Groessl; Assistant Professor; Ph.D., Marian University*

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

Amulya Gurtu; Assistant Professor; Ph.D., Ryerson University

Regan Gurung; Professor; Ph.D., University of Washington - Seattle

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*

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

Earl R 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; Associate Professor; Ph.D., University of Wisconsin - Madison

Dana Johnson; Lecturer; M.S.W., University of Wisconsin - Milwaukee

Melvin Johnson; Assistant 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

Heather Kaminski; Lecturer; MBA, Lakeland University

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*

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

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

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Margaret Kubek; Lecturer; M.S., University of Wisconsin - Milwaukee

Sylvia M Kubsch; Associate Professor; PH.D., 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; Associate Professor; Ph.D., Western Michigan University

James F Loebl; Associate Professor; J.D., University of Wisconsin - Madison

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

David Louzecky; Professor; Ph.D., University of Wisconsin-Madison

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+ Denotes Emeriti
* Denotes Graduate Faculty

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