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# Welcome

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## Publication Date: March 15, 2025

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

- Students entering in Summer 2025, Fall 2025 or Spring 2026 will use this edition (**2025-2026**) to map their academic plans in consultation with faculty and staff advisers.
- Students 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 their academic 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 (<https://www.uwgb.edu/chancellor/university-mission/>)

# 2025-2026 Undergraduate Catalog

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## UW-Green Bay Education

UW-Green Bay, with its vibrant bay shore campuses, is the fastest-growing UW with a mission to provide educational access to all who seek to learn. Committed to driving the region's prosperity, the University is expanding educational opportunities and developing innovative programs. The University of Wisconsin-Green Bay is a multi-campus regional comprehensive university offering over 200 undergraduate majors and minors, 17 master's degrees and 2 doctoral programs.

## Major Advantage

In all academic areas from business to engineering to psychology and nursing, the curriculum is evolving and designed to provide students the tools necessary to evaluate and address current and future problems as leaders, entrepreneurs, and innovators of tomorrow—to be critical thinkers and problem solvers.

## Valuable Skills

The future will favor people who are flexible, highly adaptable, entrepreneurial, and effective communicators. Students at UW-Green Bay will be prepared and 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.

## 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 a wealth of opportunity, and our students reap the advantage of strong community partnerships. Long known as a manufacturing, papermaking and food-processing center and the home of the Packers, Green Bay is a thriving hub in healthcare, insurance and tourism sectors. With a metropolitan population of about 330,000, Green Bay serves as the trade, transportation and cultural heart of an increasingly diverse region of nearly one million residents extending across much of northern Wisconsin and the Upper Peninsula of Michigan. Green Bay is home to excellent museums, parks, theatres and sports-related facilities. It is the gateway to popular Midwest vacation destinations in the scenic Door Peninsula and Wisconsin's northern forests.

## Affirmative Action Policy

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

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

## Accommodations

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

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

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

## About UW-Green Bay

UW-Green Bay is Wisconsin's fastest-growing UW, driven by our mission to provide access and opportunity for all who seek to learn. Founded in 1965, we are proud Phoenix, rising to face challenges head-on and solve problems creatively as a regional comprehensive university. See our university at a glance (<https://www.uwgb.edu/about/quick-facts/>) or dive in to learn more about UW-Green Bay (<https://www.uwgb.edu/about/>).

- Degrees and Accreditation (<http://catalog.uwgb.edu/graduate/about/degrees-accreditation/>)
- Institutional Learning Outcomes (<https://www.uwgb.edu/provost/institutional-learning-outcomes/>)
- State Authorization for Distance Education (<http://catalog.uwgb.edu/graduate/about/state-authorization/>)

## Degrees and Accreditation

### Undergraduate Degrees

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

### Accreditation

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

The University holds a full 10-year accreditation from the

#### Higher Learning Commission

230 South La Salle Street, Suite 7-500  
Chicago, Illinois 60604-1413

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

Individual programs with accreditations or approvals:

- Athletic Training, Commission on Accreditation of Athletic Training Education
- Chemistry, American Chemical Society
- Dietetics component of Human Biology, Academy of Nutrition and Dietetics
- Electrical Engineering Technology, Engineering Technology Accreditation Commission of ABET
- Environmental Engineering Technology, Engineering Technology Accreditation Commission of ABET
- Mechanical Engineering, Engineering Technology Accreditation Commission of ABET
- Mechanical Engineering Technology, Engineering Technology Accreditation Commission of ABET
- 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
- Registered Dietitian Nutritionists component of Nutrition & Integrated Health, Accreditation Council for Education in Nutrition and Dietetics
- Social Work, Council on Social Work Education
- Teacher Education, Wisconsin Department of Public Instruction

### Administration

#### University of Wisconsin System

Jay Rothman – President

#### Board of Regents

- Robert Atwell
- Scott Beightol
- Amy Blumenfeld Bogost
- Héctor Colon
- José Delgado
- Michael M. Grebe
- Eve Hall
- Mike Jones
- Tracey L. Klein
- Becky Levzow
- Edmund Manydeeds III
- Andrew S. Petersen
- Cris Peterson
- Corey Saffold
- Carolyn Stanford Taylor
- Karen Walsh
- Kyle M. Weatherly
- Olivia Woodmansee

#### **University of Wisconsin-Green Bay**

- Michael Alexander – Chancellor
- Kathleen Burns - Provost and Vice Chancellor for Academic Affairs
- Kent Bond – Chief Financial Officer

## **State Authorization for Distance Education**

### **Authorization for Distance Education in States Outside Wisconsin**

The University of Wisconsin-Green Bay has several online degree programs, a list of which can be found on our website (<https://www.uwgb.edu/academics/online/>).

### **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 M-SARA. The terms and conditions of SARA can be found in the current SARA Policy Manual (<https://nc-sara.org/resources/guides/>). 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) in accordance with the State Authorization Reciprocity Complaint Process and available at UW System Student Complaint Process Information (<https://www.wisconsin.edu/student-complaints/>).

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 The Distance Learning Authorization Board's Frequently Asked Question (<http://www.heab.state.wi.us/DLAB/faq.html>) resource.

### **Approved SARA Institutions in Wisconsin**

A list of approved SARA Institutions in Wisconsin is included in the NC-SARA Directory (<https://www.nc-sara.org/directory/>).

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

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

The State Authorization Guide (<https://nc-sara.org/guide/state-authorization-guide/>) provided by NC-SARA includes the contact information for each state's agency for complaints regarding SARA and non-SARA institutions.

## General Information

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- Campus Maps (<http://www.uwgb.edu/maps/>)
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## Admissions

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## Admission Standards

Preparation for university study is best achieved by completion of a rigorous high school program. To be assured that students are prepared to successfully complete college-level work, UW-Green Bay is guided by a philosophy of personalized admission review. Recommended college preparation is detailed below, however, UW-Green Bay strives to provide access to a college education for all who aspire to pursue it.

## High School Coursework

New first year 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.

Admission decisions are based on GPA and require completion of a high school diploma or GED. Through a personalized review process, students with less competitive academic records may be admitted with the condition that they participate in the Gateways to Phoenix Success program, designed to support their transition and academic success at UW-Green Bay.

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 individually based on the same criteria used for other applicants.

## Transfer Admission Requirements

Students who have attended college after high school graduation may transfer to UW-Green Bay and all transfer applications receive a personalized review. Admission decisions are based on GPA and number of credits earned. Based on the review, students with less competitive academic records may be admitted with the requirement they participate in the Gateways to Phoenix Success program.

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 [apply.wisconsin.edu](https://apply.wisconsin.edu). (<https://apply.wisconsin.edu/>) If you prefer a paper application, you can print a PDF from that website.

### Transcripts

New first-year students 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.

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.

UW-Green Bay accepts a number of courses and credits from the Wisconsin Technical Colleges. More information is available about transfer agreements (<https://www.uwgb.edu/admissions/credit-transfer/>) and transferrable courses. Credit transfer equivalencies between UW campuses and the WTCS campuses can be found at [www.wisconsin.edu/transfer](http://www.wisconsin.edu/transfer). (<https://www.wisconsin.edu/transfer/>)

### 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 <https://www.uwgb.edu/admissions/deadlines/>.

### Application Fee

There is no cost to apply to UW-Green Bay for any undergraduate applicants. This includes new freshmen and transfer students seeking undergraduate-level credentials, associate degrees, and/or bachelor's degrees.

# Placement Testing

## English/Writing: ACT or SAT Test Scores

Official ACT or SAT scores are optional and used for placement purposes only for:

- all new freshmen;
- all transfer and reentry students who have not satisfactorily completed at least one college-level course in Writing Foundations;
- special (non-degree) students who want to enroll in an Writing Foundations course;
- students wishing to be eligible for intercollegiate athletics.

ACT/SAT test scores are used to provide a basis for course level placement in Writing Foundations. While UW-Green Bay does not require the ACT/ SAT for Admissions purposes, in order to enroll in a Writing Foundations course above WF 100, an ACT/SAT score is needed.

## 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 Regional Placement Testing begins in March and are available online and unproctored using a computer. Students not able to test online will be offered the opportunity to test on campus via paper/pencil testing. The test results determine the course level placement for mathematics courses.

# Transfer Students

## Credit Evaluation

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

## 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 a UW-Green Bay academic program.

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

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

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

## General Education Requirements

A student who transfers to UW-Green Bay must satisfy UW-Green Bay Core Curriculum requirements by completing or transferring courses that meet the UW-Green Bay Core Curriculum requirements in effect at the time of enrollment. Students will still be required to complete all other degree and graduation requirements (<http://catalog.uwgb.edu/undergraduate/planning/graduation-requirements/>).

As listed below, degrees from the following institutions will satisfy all lower-level Core Curriculum requirements:

- An Associate of Arts and Sciences degree from any University of Wisconsin campus earned after 1990.
- A Bachelor's Degree from a regionally accredited college or university in the United States. (Also satisfies Math and Writing Competencies)
- An Associate of Arts and Sciences degree from College of Menominee Nation
- Liberal Arts/University Transfer Associate degrees from the Wisconsin Technical College System (WTCS) institutions

- Any Minnesota State College and University (MnSCU) – Associate of Arts or Associate of Science degree meeting all Minnesota Transfer Curriculum (MnTC) requirements.
- Any Illinois community college Associate of Arts or Associate of Science degree meeting the full requirements of the Illinois Articulation Initiative Gen Ed Curriculum (IAI GECC).

Associate of Applied Science degrees do not automatically satisfy all Core Curriculum requirements

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

Some, but not all of the above degrees include a course that satisfies the UW System Ethnic Studies requirement. Students should consult their advisor for more details.

## 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.

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.

#### 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

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

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

#### Summer/Winterim Session Only

Students enrolled at another college or university and current-year high school graduates who have been admitted to another college or university for the fall session may apply for Summer or Winterim Session Only admission. Such admission carries no commitment for permission to register for the regular UW-Green Bay academic year. Students from other colleges or universities must be eligible to continue at their respective institutions and are responsible for determining if their institutions will accept credits earned at UW-Green Bay.

### Application Procedures for Special Students

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

**High School Special students** must submit an official high school transcript in addition to the application.

**Early College Credit students** must submit a high school transcript, as well as the UW System ECCP participation form. Additional information is available here. (<https://www.uwgb.edu/early-college-credit-program/>)

No application fee is required of special students.



## Other Admission Information

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

### Teacher Preparation

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

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

### International Student Admission

International students from around the globe contribute to the rich diversity of the UW-Green Bay learning community.

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 expected prior to the 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/international/apply](http://www.uwgb.edu/admissions/international/apply) (<https://www.uwgb.edu/admissions/international/apply/>) and click on "English Language Proficiency."

The Office of International Education at UW-Green Bay will issue the necessary Certificate of Eligibility (Form I-20) to admitted students once it is confirmed the student has the ability to finance a UW-Green Bay education.

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

### Rising Phoenix

Students from approved participating school districts may be admitted to the Rising Phoenix program. Rising Phoenix is a collaboration between school districts and UW-Green Bay, providing students with a future-proofing blend of dual enrollment, ongoing student success coaching and an opportunity to earn a high school diploma and an Associate of Arts and Sciences degree while still in high school. Only students from approved participating school districts may apply to this program and admissions is based on a holistic admissions process, assessing students individually based on academic and personal backgrounds.

### 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.

## Tuition and Fees

### Costs

Fees and tuition are subject to change by action of the University of Wisconsin System Board of Regents and the Wisconsin Legislature. The actual costs for each academic year are available through Student Billing. Consult the Student Billing website at <https://www.uwgb.edu/student-billing/>.

### Residency

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

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

### Non-Resident Tuition Waivers

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

## Other Financial Aid

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

## Other Fee Related Policy Information

### Tuition Appeals

- Students who wish to appeal institutional charges may do so via the tuition appeal process using the **Appeal Institutional Charges** form. The appeal institutional charges policy is also referenced, using this same link.
- Students must pay for completed coursework (i.e., grades that are earned and are part of the academic record). Students appealing institutional charges for coursework for which grades have already been earned must first complete a late drop/withdrawal appeal. Tuition appeals are not reviewed unless the grade earned has been removed.

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# Absence and Attendance Policy

## Class Attendance

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

## Other Attendance Policies

- Absence due to inclement weather. For more information, see Attendance and the Weather (<https://www.uwgb.edu/provost/policies-procedures/winter-storm-policy/>).

- Absence for funerals or a death in the family. For more information, see Bereavement Policy (<https://www.uwgb.edu/dean-of-students/attendance-absence/>).
- Student Religious Beliefs: In accordance with Board of Regents Policy (UWS 22.01), sincerely held religious beliefs shall be reasonably accommodated with respect to all examinations and other academic requirements. Questions should be directed to the Dean of Students ([dosmail@uwgb.edu](mailto:dosmail@uwgb.edu)); (920) 465-2152
- Absence due to Disability: UW-Green Bay is committed to providing accommodations for eligible individuals with documented disabilities as defined by federal and state law. Questions should be directed to Student Accessibility Services (<https://www.uwgb.edu/student-accessibility/>) (920) 465-2481

## Academic Advising

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

Upon admission, all undergraduate students will be assigned to a professional advisor in the Office of Academic Advising. This professional advisor specializes in advising for the student's chosen program(s) and supports student exploration of other programs offered at the university. Students will typically remain assigned to the same professional advisor from admission through graduation. The student's assigned professional advisor and contact information is available in the student's SIS (Student Information System) account.

## Academic Forgiveness

Returning students, who have not earned a baccalaureate or associate degrees, and have not enrolled in any courses at UW-Green Bay for a minimum of three consecutive years (six consecutive fall/spring semesters) prior to re-admission are eligible to request academic forgiveness. Academic forgiveness will be considered only for those with a 1.99 cumulative GPA or lower during prior enrollment period. If academic forgiveness is granted, all grades received from courses taken three or more years before readmission will be excluded when calculating the student's cumulative grade point average on their academic transcript. All prior grades and quality points are not excluded in financial aid satisfactory academic progress calculations. Courses that meet General Education requirements that are forgiven will be used to satisfy these degree requirements. Other forgiven courses may be used to satisfy major/minor/certificate requirements, including support courses, must be approved by the faculty advisor/academic department representative as substitutions. Credits that have been forgiven, are not eligible for inclusion in calculating and awarding of All University Honors.

Requests for Academic Forgiveness can be made through the Office of Academic Advising (<https://www.uwgb.edu/registrar/forms/>) but must be made within three consecutive semesters after readmission. Students are encouraged to apply for academic forgiveness upon readmission to the university. When applying for academic forgiveness after having taken additional classes upon return to the University, the student must be in good academic standing in semesters since readmission to apply. This policy does not impact financial aid eligibility. All prior courses and the original grades must be used when determining eligibility for financial aid.

## Academic Honors

- Semester Honors (p. 20)
- Graduation Honors (p. 21)

## Dean's List

(also known as Semester Honors)

- Acknowledgement of academic excellence for a semester and awarded by the academic Dean.
- Dean's List semester honors are awarded on a semester basis.
- Semester Honors are denoted on the academic transcript in the specific semester awarded.
- Students are eligible to earn semester honors if they are enrolled in a minimum of 12 graded credits for the semester. If any courses of the 12 total credits are graded as pass/fail or audited basis a student would not be eligible for this designation.
- If all grades are not submitted at the time the Dean's List is run on individual student records, the designation may not appear until final grades are received and recorded to the record.
  - Honors requires a minimum of 12 graded credits and a semester grade point average from 3.500 to 3.749
  - High Honors requires a minimum of 12 graded credits and a semester grade point average from 3.750 to 3.999
  - Highest Honors requires a minimum of 12 graded credits and a semester grade point average of 4.0

## Honors Recognition at Commencement

**Associate degree** students will be recognized at the commencement ceremony and honors cords provided if these two requirements are met:

1. The student's cumulative grade point average meets the minimum requirements at the end of the semester preceding their final term; and
2. graded credits in residence, including credits in progress during their final term at UW-Green Bay, total a minimum of 24 credits.

**Bachelor degree** students will be recognized at the commencement ceremony and honors cords provided if these two requirements are met:

1. the student's cumulative grade point average meets the minimum requirements at the end of the semester preceding their final term; and
2. graded credits in residence, including credits in progress during their final term at UW-Green Bay, total a minimum of 30.

## All-University Academic Honors

Acknowledgment of overall academic excellence at the university level upon completion of an **Associate degree** and completing 24 regularly graded (GPA calculations do not include P-NC or audit graded courses or course grade points removed via Academic Forgiveness appeals process) credits taken in residence at UW-Green Bay.

Honors requirements for students who earn **Associate degrees** are:

- with Honors designation requires a cumulative grade point average of 3.5000 or higher.

Acknowledgment of overall academic excellence at the university level upon completion of a **Bachelor degree** and completing 30 regularly graded (GPA calculations do not include P-NC or audit graded courses or course grade points removed via Academic Forgiveness appeals process) credits taken in residence at UW-Green Bay.

Honors requirements for students who earn **Bachelor degrees** are:

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

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

Final honors designation is transcribed on the diploma issued and academic transcript record once all outstanding grades are issued. All University Honors can be rescinded, increased or added upon final assessment of grades and degree requirements in the final semester.

There are no exceptions to these rules.

## Academic Standing

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

## Good Academic Standing

A student is in good academic standing if the student's cumulative resident grade point average is 2.00 or greater. Academic standing is reviewed at the end of each academic term. Every student is expected to maintain at least a 2.00 grade point average on all work carried in every term, including summer session. Students who fail to maintain this minimum grade point average will face academic warning, probation, strict probation, or suspension, as specified.

## Academic Probation

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

## Strict Probation

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

## Return to Good Standing

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

## Academic Suspension

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

## Appeals Process

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

Students planning to appeal should consider:

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

## Readmission Following Academic Suspension

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

## Audit Enrollment (U/S grade)

- A student may elect to enroll in a course but not receive a letter grade.
- **Degree seeking** students may audit a course by requesting a change to the grade basis using the **Grade Change/Audit** form which is approved by the faculty instructor.
- **Special student only auditors (course takers)** use the same Grade Change/Audit (<http://www.uwgb.edu/registrar/forms/>) form. Several conditions apply to audit only students and are highlighted in detail on the request form or Bursar information page. Click here (<http://www.uwgb.edu/bursar/tuition-fees/audit-students/>) for more information.
- **Audit grading option, is not reversible after add/drop deadline for the respective course.**<sup>1</sup>
- Audit classes do not count toward degree requirements.
- Students can audit any undergraduate courses except:
  - Independent study
  - Internships
  - Honors projects
  - Professional courses in Education, Nursing, and Social Work
  - Graduate-level courses

<sup>1</sup> Add/Drop deadlines vary by length of course.

Courses have an add period in which a new grading option can be requested and approved using the appropriate forms mentioned above. You can find your course dates on the Registration calendar (<http://www.uwgb.edu/registrar/calendar/registration/>) the deadline is based on the course length. If you are not able to find your information, please feel free to contact [ssc@uwgb.edu](mailto:ssc@uwgb.edu).

## Audit Students

Students taking a mix of regular and audit courses are not eligible for a fee reduction. See the Registrar's Office for policies and procedures.

**Audit Only** students must have written approval from the course instructor prior to enrolling. Please use the Audit Form (<https://www.uwgb.edu/registrar/forms/>) in the Registrar's office to secure approval from the course instructor and apply for a reduced fee. Additionally, audit only students must complete a "special student" application with the Admissions office. Residency determination will be made at the time of application/admission to the University.

The decision to enroll on an audit basis for tuition purposes must be made at the time of registration.

Any course fees or field trip expenses are the responsibility of each student.

**Wisconsin Residents under age 60** will be charged 30% of the normal per credit academic fee.

**Wisconsin Residents Age 60 and older** will have the normal academic fees waived. Age 60 and over auditors will be required to provide proof of date of birth (Driver's license or birth certificate).

**Disabled Wisconsin residents** who are receiving disability insurance benefits under either the federal Supplemental Security Income (SSI) program or the federal Social Security Disability Insurance (SSDI) program will have the normal academic fees waived. A copy of your Social Security benefit letter will be required.

**Minnesota Reciprocity** residents will be charged 30% of the normal per credit Minnesota Reciprocity fee.

**Nonresidents** will be charged 50% of the normal per credit academic fee.

**Upper Michigan MSEP** (MI Compact) will be charged 50% of the normal per credit academic fee.

### Audit Student Fee Payment Instructions

You must report to the Student Billing office (SS1300) to have charges manually adjusted to the appropriate audit rate. Tuition and fees are due at the time of registration.

## Calendars

### Official University Calendars

To be sure students meet registration deadlines, know the dates of breaks and holidays, can prepare for final exams and more, refer to the official calendars for current academic year:

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

## Cancellation

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

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

## Class Standing

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

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

## Co-op

(numbered 494, 1-2 credits)

Participation in a full-time position at a host organization providing direct, on-the-job experience with professionals already successful in the selected field. The co-op will be in a position closely related to a professional career associated with the major.

- Students must complete at least two (2) co-op credits during the fall or spring semester and one (1) credit in the summer to be considered full-time status.
- Course is repeatable for credit.
- No more than 6 credits may be used to meet requirements for a major and no more than 3 credits may be used to meet requirements for a minor; may vary by academic department.

## Course Adds

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

Students may add one or more courses after the start of a term or session with no grade assigned and no financial penalty based upon the deadlines noted below. The Add Deadline is based upon the length of the session.

- Regular 14-week semester long courses or longer: within the first 7 days of the session.
- 10-week sessions: within the first 7 days of the session.
- 8-week sessions: within the first 7 days of the session.
- 6-week sessions: within the first 3 days of the session.
- 4-week sessions: within the first 2 days of the session.
- 3-week sessions: within the first day of the session.

After the Add Deadline has passed, a student may submit a Late Add eform (<https://www.uwgb.edu/registrar/forms-petitions/registration-forms/>) for the course they wish to add late. If the instructor approves the Late Add eform, the student will be added to the course by the Student Services Center and assessed a \$15 Late Add Fee. If the instructor denies the Late Add eform, the student will be informed of the denial and will not be added to the course.

Please check the Registration Calendar (<http://www.uwgb.edu/registrar/calendar/registration/>) for the specific deadline dates each term.

## Course Drops

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

Students may drop one or more courses after the start of a term or session based upon the deadlines noted below. Please see the Student Billing Resources website for information regarding drop fees and refunds.

Regular 14-week semester long courses or longer:

- Courses dropped within the first 2 weeks of the session will not receive an academic grade.
- Courses dropped within the third through eighth weeks of the session will receive an academic grade of 'W'.

Sessions less than 14 weeks:

- Courses dropped within the first week of the session will not receive an academic grade.
- Courses dropped within the second week through the first half (50%) of the session will receive an academic grade of 'W'.

After the Drop Deadline has passed, a student may submit a Late Drop Petition for review by the Enrollment Review Committee. Petitions are only approved for extenuating circumstances with supporting documentation. If a late drop is granted, students remain responsible for the tuition and fees assessed for the course as they received instruction and held a seat in the course. Courses dropped through the Late Drop Petition will receive an academic grade of 'W'.

- Regular 14-week semester long courses or longer: The Late Drop Petition is required within the ninth week through the last day of classes.
- Sessions less than 14 weeks: The Late Drop Petition is required during the second half (50%) of the session.

<sup>1</sup> A week is defined as 7 calendar days, beginning on the first day of a term or session, for the purposes of adds, drops or withdrawal deadlines.



<sup>2</sup> Tuition refunds and/or withdrawal fees vary by length of course and date of transaction. Please consult the Fee deadlines for the appropriate semester on the Student Billing Resources website for more details (<https://www.uwgb.edu/student-billing/dates/term-deadlines/>). Please note that financial deadlines are different from academic deadlines.

## Course Requisites

### Prerequisites:

Requisites indicate the minimum level of proficiency or background knowledge needed to successfully achieve course objectives. Requisites are enforced, included in the course descriptions and are indicated in the Schedule of Classes by the designation P.

### Recommended courses:

Recommended courses are typically lower-level courses that students are advised to complete prior to enrolling in a course. They are advisory (i.e., not enforced), so students may enroll without completing prior recommended courses, but they do so at their own risk. Recommended prior courses are indicated in the course descriptions by the designation REC.

### Course registration restrictions (other than requisites):

Course can have other restrictions preventing enrollment.

### Closed course:

no seats are available

### Reserves:

seats are held for a certain period of time for students in a certain class level, student group or major/minor

### Time conflict:

two courses delivered at the same time

### Consent:

student must gain instructor or department consent to enroll

### Auditions

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

## Credit for Military Experience

Students must submit official Joint Services Transcripts (JST) or Community College of the Air Force (CCAF) transcripts. All recommendations for Lower Division Baccalaureate/Associate Degree and Upper Division Baccalaureate credit will be honored. The total number of lower division credits will be recorded as a block of lower-level elective credit. The total number of upper division credits will be recorded as a block of upper-level elective credit. Vocational Certificate credit is not transferrable. Recommendations for Graduate level credit may be transferrable at the discretion of the graduate program. Specific military credit may apply to requirements in a major or minor at the discretion of the program chair of the major or minor.

## Credit Hour

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

## Credit Load

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

- **Maximum Credit Load:** A student in good standing may register for a maximum of 18 credits during any regular session of fall, spring or summer semester and may register for a maximum of six credits in the January semester, no exceptions. A student who wants to enroll in more than 18

credits in fall, spring or summer semester must obtain written approval in advance from their faculty or academic advisor using the credit overload petition. Once approved, course(s) enrollment can be completed. Additional tuition and fees will apply. No overload petitions are accepted for the January semester.

- **Minimum Credit Load:** A specific minimum number of credits (excluding audit credits) that a student must carry to be eligible for certain programs and benefits. A student may register for or reduce a program below 12 credits in a semester with the understanding that for certain purposes he or she will be considered a part-time student. A student who reduces the credit load below 12 credits should check with the appropriate offices about the effect on financial aid, government benefits, athletic eligibility, health insurance coverage, and other programs with credit load eligibility limits.

## Cumulative Grade Point Average (GPA)

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

## Declaration of Major

Students are admitted with their "Major", "Minor", or "Certificate" of interest noted for advising purposes. All students are required to have an official major and faculty mentor on file with the Registrar's Office by the time they have a total of 45 credits earned. Some majors require additional entrance requirements or addition of an area of emphasis, thus a student must complete the program admit process requirements. These students will be added as Pre-Majors to their area of study. A "Major", "Minor", or "Certificate" is not fully valid until the student is also assigned a faculty mentor. Students are encouraged to discuss their major(s) with faculty representatives as early as possible in their undergraduate career. To declare or change a "Major", "Minor", or "Certificate", students must contact their assigned professional advisor. The student's assigned professional advisor and contact information is available in the student's SIS (Student Information System) account.

## Degree Residency Requirement

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

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

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

## Earning a Second Degree

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

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

Students seeking an additional major or minor in the same degree designation after having already earned that baccalaureate degree from UW-Green Bay may do so. Post-baccalaureate activity is recorded on their academic transcript, and the subsequent credential is recorded at the time of completion.

## Educational Status

### Degree-Seeking:

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

## Special Student:

A special student is not seeking a degree, but taking courses. Status impacts the admissions process and financial aid eligibility.

## Enrollment Status (full time, part time)

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

Full Time <sup>Fall/Spring</sup>	12 credits
Three-Quarter Time	9-11 credits
Half Time	6-8 credits
Full Time <sup>Summer</sup>	6 credits
Less than Half Time	1-5 credits

## Global Catalog Numbers

The UW-Green Bay faculty and administration have approved the use of some catalog numbers across all subject headings. Academic departments are able to schedule these experiences without securing additional approval through the curricular approval process.

Courses include:

- 297 - Internship (p. 31)
- 298 - Independent Study (p. 30)
- 299 - Travel Course (p. 36)
- 478 - Honors in the Major (p. 30)
- 494 - Co-op (p. 24)
- 495 - Teaching Assistantship (p. 36)
- 496 - Project/Research Assistantship (p. 33)
- 497 - Internship (p. 31)
- 498 - Independent Study (p. 30)
- 499 - Travel Course (p. 36)

## Grade Point Average (GPA)

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

### Example of GPA for a Semester

Course	Grade	Credits	Grade Points
ART 105	A	3	12
MATH 104	BC	4	10
GERMAN 102	C	4	08
WF 100	C	3	06
Total		11	30

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

30 divided by 11 equals 2.72 grade point average.

## Grading Policy

### Cumulative Grade Point Average

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

## Final Grades

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

## Grades

Every student receives a grade from the instructor of a course at the end of a semester or session. **Instructors must enter grades on the course roster in SIS for processing by the Registrar's Office no later than seven (7) calendar days after the final examination or last date of that individual course.** If an instructor finds they have made a grade error or missed entering a grade, the faculty member can complete a grade change in SIS, using the grading access they are provided, up through the end of the subsequent semester. **Please contact the Registrar's office with any grading issues or questions as needed.**

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

## Grade Changes

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

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

## Grade Changes AFTER two semesters

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

## Grade Appeals

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

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

## Grading System and Grade Points

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

### Grade Point Values

Letter Grade		Grade Points Per Credit
A	Excellent	4.0
AB	Very Good	3.5
B	Good	3.0
BC	Above Average	2.5
C	Average	2.0
CD	Below Average	1.5
D	Poor	1.0
F	Unacceptable	0.0
WF	Unofficial Withdrawal	0.0
P	A "C" grade or better for undergraduate courses	No effect
NC	No credit, letter grade of less than "C"	No effect
U	Unsatisfactory Audit	No effect
S	Satisfactory Audit	No effect
N	No acceptable report from instructor – temporary grade	No effect until an acceptable grade submitted
I	Incomplete, temporary grade	No effect until removed

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

## Guidelines for Certificates

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

### Requirements for Certificates

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

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

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

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

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

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

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

## Guidelines for Majors and Minors

- Majors will consist of a minimum of 30 credits with at least 24 credits at the upper level.
- Minors will consist of a minimum of 18 credits with at least 12 credits at the upper level. The exceptions are Mathematics, Music, Art, and Theatre.
- The official transcript will include only type of degree and date earned; major(s), minor(s), and All-University Honors, Distinction in the Major and any Semester Honors achieved. Majors, Minors, and Certificates are only transcribed if a Bachelor's degree is earned.
- Diplomas will carry only the degree (B.A., B.S., etc.) and All-University Honors if achieved.
- Overlapping of requirements for majors, minors, and professional programs with the general education requirements is permitted.
  - Courses may not count for two requirements in a major, minor, professional program or general education.
- Majors, minors and professional programs may declare that their requirements are valid for a maximum period of five years following the final approval of a student's academic plan.

### Students with Two or More Majors

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

Any student that has earned a baccalaureate degree at UWGB can earn an additional major or minor post-graduation. Students with a baccalaureate degree from another University would need to complete degree requirements (and residency) to have a major and minor posted on their official transcript.

## Honors in the Major

(numbered 478, 3 credits)

- Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
- Honors in the Major may not be substituted for a major requirement.
- The Honors in the Major project should be planned during the junior year.
- Students should enroll for Honors in the Major study during the first semester of registration with senior standing (84 or more degree credits) to ensure adequate time to complete it by graduation. Students should consult with sponsoring faculty during the junior year to determine possible special needs for library resources, equipment, supplies or field research.
- Eligibility requirements for Honors in the Major are:
  - Minimum grade point average of 3.500 for all courses required for the major, as indicated on the degree audit.
  - Minimum grade point average of 3.750 for all upper-level courses required for the major, as indicated on the degree audit.
  - Successful completion of the Honors in the Major project requirements.
- An Honor in the Major is different from All-University Honors. Rather than a required, cumulative grade point average, the grade point average is calculated on courses required for the major only and there is no residence requirement as with All-University Honors. An honor in the major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.
  - Students are recognized at Commencement if the Honors in the Major project is completed and minimum GPA requirements are met, in the preceding semester to commencement.
  - Honors in the Major can be awarded, rescinded or All University Honors increased to Summa Cum Laude, in a final semester of completion based on the outcome of the last remaining courses of record. Final GPA calculations, grades and All University Honors designations are not completed at time of commencement due to grading deadlines and degree conferral timeframes.
- There is no residency requirement for Honors in the Major.
- Regular semester/session add and drop deadlines apply; no P-NC grading is permitted.

## Incomplete Grades

### Incomplete grades (I grade)

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

### Incomplete grades for Graduating Students

Students who complete their coursework in December (fall graduates), January (January graduates), May (spring graduates) or August (summer graduates) must have all incomplete grades removed within 42 days following the end of the classes to have their degree conferred in that semester. If this deadline is not met, students will be removed and added to a future semester for degree conferral.

## Independent Study

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

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

# Individualized Course Instruction

## Universal Expectations

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

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

- Honors in the Major (p. 30)
- Independent Study (p. 30)
- Internship/Co-op (p. 31)
- Project/Research Assistantship (p. 33)
- Teaching Assistantship (p. 36)

## Internship & Co-op

### Internship

(numbered 297, variable 1-6 credits)

(numbered 497, variable 1-12 credits)

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

### Co-op

(numbered 494, variable 1-2 credits)

Participation in a full-time position at a host organization providing direct, on-the-job experience with professionals already successful in the selected field. The co-op will be in a position closely related to a professional career associated with the major. Students must complete at least two (2) co-op credits during the fall or spring semester and one (1) credit in the summer to be considered full-time status. Course is repeatable for credit. No more than 6 credits may be used to meet requirements for a major and no more than 3 credits may be used to meet requirements for a minor; may vary by academic department.

## Mode of Instruction

### In-Person

A fully on-campus (i.e., face-to-face) course where the students and instructor meet during a specified time at a specified location. Student participation is required and class sessions are not recorded. Technology, such as the use of a Learning Management System (e.g. Canvas), may be used at the discretion of the instructor.

The schedule of classes and Student Information System (SIS) will list the meeting day/time/place for the course.



## Online

A course which is exclusively online and has no scheduled meeting times. Class materials can be accessed on a flexible schedule, but students will be required to meet instructor-specified deadlines and due dates. Technology, such as the use of a Learning Management System (e.g. Canvas) and reliable internet access, will be required.

## Virtual Classroom

A course where students and instructors interact online synchronously (at scheduled meeting times). Technology, such as reliable internet, and the use of a Learning Management System (e.g. Canvas) and web conferencing tool (e.g. Zoom), will be required.

The schedule of classes and Student Information System (SIS) will list the meeting day/time for the course.

## Hybrid

A course which combines on-campus and online components. On-campus sessions require student participation and will not be recorded. The online activities may be either asynchronous (without scheduled meetings, students work on their own time) or synchronous (scheduled meetings). Technology, such as reliable internet, and the use of a Learning Management System (e.g. Canvas) and/or a web conferencing tool (e.g. Zoom), will be required.

The schedule of classes and Student Information System (SIS) will list the meeting day/time/place for the course.

## Campus-to-Campus

A course where the instructor and some students attend in-person at one campus while the remaining students attend in-person at one or more other campuses. Student participation is required and class sessions are not recorded. Technology, such as the use of a Learning Management System (e.g. Canvas), may be used at the discretion of the instructor.

The schedule of classes and Student Information System (SIS) will list the meeting day/time/place for the course.

## Campus-to-Anywhere

A course where the instructor and some students attend in-person at one campus while the remaining students attend online at the same time (synchronously). Student participation is required and class sessions are not recorded. Technology, such as reliable internet, and the use of a Learning Management System (e.g. Canvas) and/or a web conferencing tool (e.g. Zoom), will be required.

The schedule of classes and Student Information System (SIS) will list the meeting day/time/place for the course.

## Pass/No Credit Enrollment

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

<sup>1</sup> Add/Drop deadlines vary by length of course.

Courses have an add period in which a new grading option can be requested and approved using the appropriate forms mentioned above. You can find your course dates on the Registration calendar (<http://www.uwgb.edu/registrar/calendar/registration/>) the deadline is based on the course length. If you are not able to find your information, please feel free to contact [ssc@uwgb.edu](mailto:ssc@uwgb.edu).





## Substantive

Substantive interaction in a course includes, but is not limited to, 1) Providing direct instruction through synchronous in-person or online meetings with students or asynchronous recordings of video or audio lectures; 2) Leveraging tools in our LMS or other institutional technology for class discussions, small group activities, and/or individual lessons or meetings; 3) Assessing or providing feedback on a student's coursework; and 4) Responding to student questions about the content of a course or competency in a timely manner.

## Repeat Policy

### Repeating a Course

#### Repeating Courses for Credit

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

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

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

#### Repeating Courses to Improve a Grade

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

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

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

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

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

## Retroactive Credit

Degree seeking students who enter the university with advanced preparation in Calculus, Music Keyboard Musicianship or German, French or Spanish, may receive retroactive credit as indicated below.

### Institutional Policy Regarding the Awarding of Retroactive Credit:

- Only degree seeking students who have been admitted to UW-Green Bay are eligible to receive retroactive credit. (The only exception is for high school students enrolled in UW-Green Bay Modern Language courses.)
- Retroactive credits are granted toward a UW-Green Bay degree; policies of other colleges would determine whether they would accept these Retroactive credits for transfer into their program, college or university.
- All credit awarded through retroactive credit options must equate to a specific UWGB course or courses. Credit cannot be awarded as general elective credit.
- Credit cannot be awarded for a course that already appears on a student's transcript.
- Retroactive credit awarded may not be used for grade point average calculation and does not count as credits in residence for the purposes of honors or degree program requirements.
- To receive credit a student must comply with all institutional policies and procedures relating to the awarding of retroactive credit.
- Courses will be recorded on the student's transcript as retroactive credit. The awarding of retroactive credit is limited to the specific courses listed below.

## **French, German, Spanish or other World Languages offered at UW-Green Bay**

Degree seeking students may earn up to 14 credits as identified below for their previous world language study in French, German, Spanish, or other world languages offered at UW-Green Bay by completing courses beyond the 101 level. With a grade of "B" or better, credit will be given for all world language courses preceding the one in which the student has enrolled (of the eligible courses listed below), 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 224 or 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 earned 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).

Students with previous world language knowledge should select appropriate courses by either (1) counting a year of high school work as roughly equivalent to a semester of college work; or (2) taking the UW System World Language Placement Test. If a student has studied Spanish for three years in high school, he or she should probably enroll in the fourth course in college (i.e., SPANISH 202). but might also consider 201; or (3) discussing their world language with a language advisor in the case of heritage learners. If more than two years have elapsed since the last language study, students should consult with a language faculty program coordinator to determine proper placement.

To determine if a student meets the above criteria for retroactive credit, the Registrar's Office will review the official posted grade rosters and where appropriate, the courses and corresponding credits will then be recorded on the student's transcript.

High school students enrolled in UW-Green Bay Modern Language courses are eligible to earn retroactive credits. This is the only retroactive credit option available to CCIHS, ECCP, or high school special program students.

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 world language credits may **only** be earned by satisfactorily passing a course at UW-Green Bay or through an approved CCIHS program as described above.

Retroactive credits earned at any UW System institution or from Saint Norbert College courses will be honored and granted to transfer students. Retroactive world 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.

## **Math (Calculus and Analytic Geometry II (MATH 203))**

Students coming with a background in Calculus can be placed in MATH 203 and may receive retroactive credit for MATH 202. If a student receives a grade of "C" or better then retroactive credit can be awarded 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 here (<https://www.uwgb.edu/testing-services/credit-exams/ap-exams/>).

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.

## **Music Keyboard Musicianship**

Students successfully completing MUS APP 21, MUS APP 31, or MUS APP 41 may be eligible to receive retroactive credit for preceding courses in this sequence.

In order to receive retroactive credit for one or more Keyboard Musicianship courses a student is required to earn a grade of "BC" or better; courses taken on a Pass/No Credit basis will not be eligible for retroactive credit. Retroactive credit will be given in Keyboard Musicianship for all of the courses in the sequence preceding the one in which the student has enrolled, to a maximum of 3 credits.

To determine eligibility for retroactive credit students must consult with a member of the Music faculty who will advise them regarding which Keyboard Musicianship course they should take. If a student meets the criteria above, the 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.

The awarding of retroactive credit for Keyboard Musicianship courses began in fall 2012.

Transfer students who have completed coursework deemed to be equivalent to any of the classes listed above must meet with a member of the Music faculty to determine if they are eligible for retroactive credit.

## **Student**

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

## Teaching Assistantship

(numbered 495, 1-6 credits)

- The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives.
- Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship.

## Transfer Credit Policy

It is the policy of UW-Green Bay to accept transfer credits in full compliance with the UW System Board of Regents Transfer Credit Policy (<https://www.wisconsin.edu/uw-policies/uw-system-administrative-policies/uw-system-undergraduate-transfer-policy/>). Some of the basic components of that policy are:

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

After a student has been admitted as degree seeking, the Office of the Registrar will evaluate completed and in-progress coursework at the time of application. Upon receipt of a final transcript which includes final grades for courses previously in-progress, the credit evaluation will be completed. See more details in this section (<http://catalog.uwgb.edu/undergraduate/general-information/admissions/transfer-students/>).

## Appeals

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

## Travel Courses and Study Abroad

The University of Wisconsin – Green Bay encourages students to take advantage of educational opportunities all over the world.

### Travel Courses

Travel Courses are led by UW-Green Bay faculty and count as UW-Green Bay resident credit. They are offered in many subject areas (ex, PSYCH, BUS ADM) and have a course number of either 299 for lower-level, or 499 for upper-level. Typically, these courses last 2-4 weeks and are offered during January Interim or Summer. Students register for these courses in SIS during normal registration times. 499 courses can be used to satisfy the Global Culture general education requirement. Contact your Professional Advisor for more details.

### Study Abroad

Study Abroad provides a once-in-a-lifetime experience that will help you explore the world, learn and grow personally, become more culturally savvy & build essential skills that any employer is looking for.

Study Abroad courses are recorded as transfer credit, however, they may be used to meet major, minor, and/or general education requirements. Prior to departing, students work with their Professional Advisor and Faculty mentor to determine how courses taken abroad will apply to their UW-Green Bay degree. Contact the Office of International Education for more details.

### Study Abroad through another Institution

UW-Green Bay partners with other UW schools to help increase Study Abroad destinations for students. If another UW offers a destination that UW-Green Bay does not, it may be possible to participate in the experience through the other UW school. Courses taken this way can then be transferred to UW-Green Bay and may be used to meet major, minor, and/or general education requirements. Prior to departing, students work with their Professional Advisor and Faculty mentor to determine how courses taken abroad will apply to their UW-Green Bay degree. Upon return, students must submit their

foreign transcript to a professional evaluation service currently recognized by NACES (<https://www.naces.org>) for review. UW-Green Bay recommends ECE (<https://www.ece.org>) or WES (<https://www.wes.org>). Contact the Office of International Education for more details.

## Types of Credit

### Attempted

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

### Degree Credits

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

### Earned Credits

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

## Withdrawal

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

Students may withdraw from all courses after the start of a term or session based upon the deadline dates noted below. Once a student drops to zero credits of enrollment, the Registrar's office withdraws the student from the semester. Please see the Student Billing website for information regarding withdrawal fees and refunds.

- Regular 14-week semester long courses or longer: Students who withdraw from all courses within the first 2 weeks of the session will not receive an academic grade. Students who withdraw from all courses within the third through twelve weeks will receive an academic grade of 'W'.
- Sessions less than 14 weeks: Students who withdraw from all courses within the first week of the session will not receive an academic grade. Students who withdraw from all courses within the second week through the first half (50%) of the session will receive an academic grade of 'W'.

After the Withdrawal Deadline has passed, a student may submit a Late Withdrawal Petition for review by the Enrollment Review Committee. Petitions are only approved for extenuating circumstances with supporting documentation. If a late withdrawal is granted, students remain responsible for the tuition and fees assessed for the course as they received instruction and held a seat in the course. Courses dropped through the Late Withdrawal Petition will receive an academic grade of 'W'.

- Regular 14-week semester long courses or longer: The Late Withdrawal Petition is required within the thirteenth week through the last day of classes.
- Sessions less than 14 weeks: The Late Withdrawal Petition is required during the second half (50%) of the session.
- 

<sup>1</sup> A week is defined as 7 calendar days, beginning on the first day of a term or session, for the purposes of adds, drops or withdrawal deadlines.

<sup>2</sup> Tuition refunds and/or withdrawal fees vary by length of course and date of transaction. Please consult the Fee deadlines for the appropriate semester on the Student Billing website for more details (<https://www.uwgb.edu/student-billing/dates/term-deadlines/>). Please note that financial deadlines are different from academic deadlines.

## Writing Emphasis Guidelines

In accord with the Purpose and Policies of the UW-Green Bay Writing Emphasis requirement, instructors of WE courses are not expected to teach writing skills but are expected to provide a series of writing assignments in accord with the guidelines below and to identify students with weak writing skills and assure that they get help from the Writing Center.

1. Students must complete three or more "public discourse" writing assignments as part of the course requirements. Public discourse assignments are written for an audience other than the writer. (Journals and diaries are excluded.) Typical public discourse assignments include--but are not limited to--research papers, essays, essay exams (in class or take home), lab reports, literature reviews, and others.
2. The three or more public discourse writing assignments must total a minimum of 2000 words (i.e., by the end of the semester each student must have turned in at least 8 to 10 pages of "public discourse" writing).
3. The public discourse assignments must count for a significant portion of the course grade. The intent of this guideline is to provide a strong incentive for students to take their writing assignments seriously. Writing assignments typically constitute 25%-33% of the final WE course grade.

4. The quality of the writing must be evaluated, not just the content. Organization and development of ideas, clarity of expression, coherence between sentences and paragraphs, and adherence to the conventions of written English are among the factors that instructors are expected to take into account in evaluating the public discourse assignments.
5. At least one public discourse assignment must be evaluated and returned to students during the first third of the course (i.e., before the end of the 4th week of a regular semester course). The intent of this guideline is to assure that students with weak writing skills are identified early enough in the semester to allow them to get help for their writing problems. Note that there is no required length for this assignment, nor is there a requirement that it count significantly towards the final grade. As long as other assignments in the course meet the other guidelines listed above, any writing assignment that provides the instructor with the opportunity to identify students with serious writing problems may be used to meet this guideline. Thus a typical first assignment might be a one or two page summary of--or reaction to--an assigned reading or a lecture, or a review of a film, or a preliminary description of the major paper the student proposes to write for the course, or a discussion of a problem related to the course that the student is interested in investigating, or a one-page answer to a study question.
6. Instructors of WE courses are required to notify students at the start of the semester that the course is a Writing Emphasis course and to strongly encourage students who need writing-skills help to use the services of the Writing Center. The syllabus should identify the course as a WE-approved course, describe the writing assignments in detail, and inform students that the Writing Center is the place to seek help with their writing skills.
7. Instructors of WE courses are expected to regularly evaluate the effectiveness of the writing assignments in helping students improve their writing skills and to make appropriate adjustments in those assignments in response to the evaluation results.

## WE Required Assignments

- Three or more “public discourse” writing assignments must be included as part of the course requirements. “Public discourse” means the work is written for someone other than the writer. (Thus, journals and diaries are excluded.) These assignments may include in-class work including essay exams.
- These writing assignments must total a minimum of 2000 words.
- Writing assignments must constitute at least 25% of the grade for the course.
- One public discourse assignment must be evaluated and returned to the student before the end of the 4th week of class. (This is to allow students to seek help with their writing early in the course.)

## 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. 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 child.

### 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 them, the student has committed a violation of the UWGB’s rules or policies.

### 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: <https://www.uwgb.edu/police/crime-reporting/security-reports-crime-data/>

## 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 child.
- 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

<https://studentprivacy.ed.gov/ferpa> (<https://studentprivacy.ed.gov/ferpa/>)

## University Testing Requirements

### English/Writing and Mathematics Course Placement

In order to determine mathematics and English/Writing 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 Writing Foundations or mathematics;
- special students wishing to enroll in a Writing Foundations or mathematics courses;

**\*\*UW-Green Bay does not require the ACT/SAT for Admissions purposes, but in order to enroll in a Writing Foundations course above WF 100, an ACT/SAT score is needed.**

## 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/Writing 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/Writing competency requirement. The following cut-off scores are used to place students in the most appropriate course based on their current level of English/Writing performance.

All international students whose country of origin's primary language is not English will either be placed into WF 164, First Year Writing for International Students, or WF 100, First Year Writing. The exception to this would be International students who have an ACT English score of 32 or above, or an SAT Critical Reading score of 750 or above, or an SAT Reading score of 39 or above. WF 105 or WF 200 or ENGR 236 or ENV SCI 239 may also be required by major.

### ACT English score: 24 or lower

**OR**

### SAT Critical Reading score: 580 or lower OR SAT Reading score: 31 or lower

The student should complete WF 100 by the end of their second semester at UW-Green Bay. Students referred to WF 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 earn three degree credits.

### ACT English score: 25-31

**OR**

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

The student is eligible to enroll in WF 105 or WF 200 or ENGR 236 or ENV SCI 239. Students should complete WF 105 or WF 200 or ENGR 236 or ENV SCI 239 by the end of their third semester at UW-Green Bay.

### 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/Writing competency requirement. These scores also satisfy the WF 105 requirement for some majors and minors.

**If you do NOT have an ACT or SAT score, you will be placed into WF 100.**

## 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 and testing dates are 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 GBO registration session. Continuing, re-entry and transfer students should seek assistance from their Professional Advisor and scores should be available within Stellic or the unofficial transcript.

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 should complete the UW-Green Bay Mathematics Competency before the completion of 60 earned and in progress credits. Students who have not taken the WMPT and received a MFND score of 466+, or have not satisfactorily completed or transferred in a college-level mathematics course, must enroll in MATH 94, MATH 99, PSYCH 205, BUSAN 220, or MATH 100 depending on academic program to fulfill competency. Students should consult with their advisor to determine the appropriate course.



# Official University Calendars

## Official University Calendars

To be sure students meet registration deadlines, know the dates of breaks and holidays, can prepare for final exams and more, refer to the official calendars for current academic year:

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

## Colleges

Austin E. Cofrin School of Business (p. 41)

College of Arts, Humanities and Social Sciences (p. 42)

College of Health, Education and Social Welfare (p. 43)

College of Science, Engineering and Technology (p. 44)

## Austin E. Cofrin School of Business

### Mission Statement

The Austin E. Cofrin School of Business is a community of teachers, scholars, professionals, and learners dedicated to advancing the economic prosperity and entrepreneurial spirit of northeastern Wisconsin through partnerships, quality educational programs, and impactful research.

We achieve this mission through the following actions:

- Addressing the educational imperative to increase access to, and completion of, quality baccalaureate and masters-level business degrees within UW-Green Bay's 16 county footprint in northeastern Wisconsin.
- Intentionally seek a student body representative of the diverse, multicultural communities of NE Wisconsin that UW-Green Bay serves as a public regional comprehensive university.
- Providing transformative undergraduate and graduate business degree programs that emphasize the use of high impact practices to prepare learners to ethically and critically address complex issues and deliver innovative socially responsible solutions.
- To instill in our learners a philosophy that the positive power of business drives economic, social, and environmental progress.
- Recognizing our role as an anchor institution, to develop and sustain meaningful partnerships that facilitate the exchange of knowledge and resources with key stakeholders, including students, alumni, faculty, businesses, and other organizations and individuals that comprise our community.
- Building a diverse community of professionals who continually seek to enhance their core proficiencies through professional development and reflective practice, and a faculty who participate in high quality and impactful scholarship that incorporates discovery, application, and teaching and learning.

### Values Statement

In pursuit of service to our students and community, the Austin E. Cofrin School of Business stresses core values in:

- Community engagement: a recognition of our responsibility to act as an anchor institution and through open dialog and partnership create shared opportunities and broad benefits across Northeastern Wisconsin.
- Leadership: a commitment that inclusivity, team-work, and interdisciplinary study enhance our ability to think creatively, act ethically, practice informed decision-making, and lead change.
- Innovation: a shared belief that reflection and calculated experimentation leads to a problem-solving mindset and continual progress in teaching, scholarship, and business evolution.
- Sustainability: a recognition of the power and responsibility of business to innovate sustainable social, environmental, and economic practices.

## Majors and Minors

- Accounting (p. 352) (Business Analysis and Reporting\*, Managerial Accounting\*, Tax Compliance\*)
- Business Administration (p. 88) (Business Analytics, Entrepreneurship, General Business, Supply Chain Management\*)
- Digital Marketing (p. 133) (minor)
- Economics (p. 134) (minor)

- Entrepreneurship (p. 172) (minor)
- Finance (p. 174) (Business Finance, Personal Financial Planning, Portfolio Management)
- Human Resources Management (p. 222) (General, Professional Certification)
- International Business (p. 240) (minor)
- Management (p. 241)\*
- Marketing (p. 243)\*
- Personal Financial Planning (p. 298) (minor)
- Sales (p. 317) (minor)

\* includes an accelerated option integrated with a graduate program

## Certificates

- Digital Marketing and Sales Management (p. 365)
- Entrepreneurship (p. 366)
- Marketing Analytics (p. 371)
- Supply Chain Management (p. 377)

## College of Arts, Humanities and Social Sciences

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

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

## Majors and Minors

- Art (p. 65) (Art Education, Pre-Art Therapy, Studio Art,)
- Art History (p. 67) (minor only)
- Arts Management (p. 68) (minor only; Arts Management, Gallery and Museum Practices)
- Communication (p. 108) (Health Communication, Journalism, Mass Media, Organizational Communication, Public Relations, Social Media Communication, Sports Communication)
- Criminal Justice (p. 122) (minor only)
- Dance (p. 335) (minor only)
- Democracy and Justice Studies (p. 124) (Criminal Justice, Global Democracy, Legal Studies, Social Justice, Social Studies Education)
- English (p. 151) (Creative Writing, English Education, Literature)
- Environmental Design & Community Planning (p. 157) (minor only)
- Environmental Policy and Planning (p. 162) (Environmental Policy and Planning, Environmental Policy\*)
- Film Studies (p. 173) (minor only)
- First Nation Studies (p. 178)
- French and Francophone Studies (p. 181) (minor only)
- Geography (<http://catalog.uwgb.edu/undergraduate/programs/geography/>)
- German (p. 186)
- Global Studies (p. 190) (minor only)
- Graphic Design (p. 192)
- History (p. 196) (General, Public, Social Studies Education)
- Humanities (p. 225) (Ancient and Medieval Studies, Digital and Public Humanities, World Cultures, Environmental Humanities, Humanities Online, Linguistics/Teaching English as a Second Language)

- Individual Major (p. 235)
- Information Technology and Data Science (p. 237) (Data Science, Game Studies, Information Technology)
- International Business (p. 240) (minor only)
- Media Arts and Production (p. 259)
- Music (p. 261) (Music Education, Instrumental Performance, Vocal Performance, Audio Production, Composition, Individual Studies, Jazz Studies, Music and Entrepreneurship)
- Organizational Leadership (p. 291) (Applied Communication, Business Administration, Early Childhood, Emergency Management, Environmental Policy & Planning, Management in Health Systems, Public and Nonprofit Management, Self-Directed)
- Philosophy (p. 299)
- Political Science (General, (p. 302) Social Studies Education)
- Psychology (p. 307)
- Public Administration (p. 312) (Emergency Management, Emergency Management (Accelerated) - Integrated with graduate Master of Public Administration Program, Public and Nonprofit Management, Public & Nonprofit Management (Accelerated) - Integrated with graduate Master of Public Administration Program)
- Social Justice (p. 318) (minor only)
- Sociology & Anthropology (p. 324)
- Spanish and Latin American Studies (p. 329)
- Theatre (p. 335) (minor only)
- Women's and Gender Studies (p. 341) (minor only)
- Writing and Applied Arts (p. 343) (Community Storytelling, Editing and Publishing, Game Writing, Professional and Technical Writing)

## Certificates

- Civic and Community Engagement (p. 367)
- Data Analytics (p. 365)
- Emergency Management (p. 365)
- Geographic Information Systems (p. 368)
- German Engineering (p. 368)
- Lesbian, Gay, Bisexual, Transgender, and Queer Studies (p. 370)
- Multicultural U.S. History (p. 372)
- Nonprofit Management (p. 373)
- Professional Ethics (p. 374)
- Spanish/English Translation and Interpretation (p. 377)
- Teaching English as a Second Language (p. 378)

## College of Health, Education and Social Welfare

The College of Health, Education, and Social Welfare (CHESW) offers educational programs that are transforming in terms of developing a broader worldview, gaining new knowledge and skills, and preparing for a chosen profession. Through field experience in degree programs, students are offered the opportunity to connect within communities. Graduates contribute to the greater good of communities as teachers, nurses, social workers, health information specialists, innovators, and leaders. CHESW programs include:

- The Professional Program in Education (<http://www.uwgb.edu/education/>) offers a Bachelor of Science in Education with specialization options ranging from teaching Early Childhood to Adolescence. Each student completes student teaching providing hands-on learning on how to be an effective leader in the classroom. A graduate program, Master of Science in Applied Leadership in Teaching and Learning, and several dual listed courses (for both undergraduate and graduate credit) are available.
- The Nursing and Health Studies Unit (<http://www.uwgb.edu/nursing/>) provides a range of online and face-to-face program options to acquire a Bachelor of Science in Nursing or Bachelor of Health Information Management and Technology. It also offers graduate degrees: Master of Science in Nursing Leadership and Management and Master of Science in Health and Wellness Management, as well as certificates in health-related areas (Management in Health Systems and Nursing Leadership). Students complete relevant practicum experiences in degree programs. Dual listed courses (for both undergraduate/graduate credit) are available.
- The Professional Programs in Social Work (<http://www.uwgb.edu/socwork/>) offers both a bachelor's degree in Social Work and a Master of Social Work (MSW) degree. Students complete field practicums for both degrees, providing hands-on learning in a variety of social service fields. The MSW Program also offers a school social work certificate for current and post-MSW students.

For further information about CHESW, go to <https://www.uwgb.edu/chesw/>

## Majors and Minors

- Community Health Education (p. 115)
- Education (p. 134) (English as a Second Language Gr. PK-12, Elementary and Middle School Grades K-9, Science Education, Accelerated - Integrated with graduate Applied Leadership for Teaching and Learning program)
- Health Information Management and Technology (p. 194) (Healthcare Management, Healthcare Technology)
- Nursing (p. 280)
- Social Work (p. 319) (Child Welfare, General, Substance Abuse)

\* includes an accelerated option integrated with a graduate program

## Certificates

- Health Information Management (p. 369)
- Management in Health Systems (p. 371)
- Physical Education (p. 374)

# College of Science, Engineering and Technology

The College of Science, Engineering and Technology offers a diverse array of majors and minors through the departments of Human Biology, Natural and Applied Sciences, and the Richard J. Resch School of Engineering. These include human biology, biology, chemistry, environmental science, geoscience, physics, water science, computer science, mathematics and statistics, environmental engineering technology, electrical engineering technology, mechanical engineering technology, mechanical engineering, as well as a **new major in electrical engineering**. Faculty in the College are accomplished teachers and scholars who provide high quality instruction and hands-on teaching and research experiences to students in laboratory and field settings. The College has consistently obtained funding from local, state, and federal sources to support on-campus and community-based research projects that actively engage undergraduate students. The College also supports two seminar series (Human Biology and Natural and Applied Sciences) and several student organizations, while also providing numerous named scholarships for students. The state-of-the art laboratory and research facilities include the Brown County STEM Innovation Center that houses the mechanical engineering and mechanical engineering technology programs, a human cadaver lab, an instrumentation laboratory, a scanning electron microscope, and numerous other research labs. A \$5.7 million renovation project was completed in 2022 and houses the electrical engineering and electrical engineering technology programs, as well as a new physics laboratory. In addition to the laboratory and research facilities associated with Human Biology, Natural and Applied Sciences, and the Resch School of Engineering, the College also includes the Cofrin Center for Biodiversity and the Environmental Management and Business Institute (EMBI), which both provide research and internship opportunities. The College also has a partnership with the Medical College of Wisconsin-St. Norbert Campus, with faculty in Human Biology providing instruction to Medical College of Wisconsin students.

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

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

## Majors and Minors

- Biology (p. 70) (Animal Biology, Aquatic Ecology and Fisheries, Cell/Molecular, Ecology and Conservation, Microbiology, Pre-Veterinary)
- Chemistry (p. 95) (General, ACS Chemistry, ACS Environmental Chemistry, Biochemistry)
- Computer Science (p. 117) (Artificial Intelligence, Cybersecurity)
- Electrical Engineering (p. 144)
- Electrical Engineering Technology (p. 148)
- Environmental Engineering Technology (p. 158)
- Environmental Science\* (p. 167) (International Environmental Studies minor)
- Geoscience (p. 183)\*
- Human Biology (p. 202) (General, Applied Public Health, Health Science, Exercise Science, Cytotechnology, Nutritional Sciences/Dietetics, Nutritional Sciences/Dietetics (Accelerated) - Integrated with graduate Nutrition and Integrated Health program, Athletic Training (Accelerated) - Integrated with Master of Athletic Training program)

- Mathematics and Statistics (p. 245) (Mathematics, Statistics; Actuarial Science minor)
- Mechanical Engineering (p. 252)
- Mechanical Engineering Technology (p. 255)
- Physics (<http://catalog.uwgb.edu/undergraduate/programs/physics/>) (minor only)
- Software Engineering (p. 326)
- Sustainability (p. 334) (minor only)
- Water Science (p. 337) (Water Science, Water Science (Accelerated) -Integrated with graduate Environmental Science & Policy program)

\* includes an accelerated option integrated with a graduate program

## Certificates

- Electrical Engineering Principles (p. 365)
- Environmental Sustainability and Business (<http://catalog.uwgb.edu/undergraduate/certificates/emb/>)
- German Engineering (p. 368)
- Mechanical Engineering Principles (p. 372)
- Personal Training (p. 373)

## Undergraduate Degree Components

- Core Curriculum (p. 45)
- Writing Emphasis (p. 54)
- Writing Competency (p. 53)
- Math Competency (p. 53)
- High Impact Practices (p. 59)
- Graduation Requirements (p. 51)

## Core Curriculum

UWGB's Core Curriculum supports the University's Select Mission by providing a problem-focused educational experience that promotes critical thinking and student success and reflects a deep commitment to diversity, inclusion, social justice, civic engagement, and educational opportunity at all levels.

### The Core Curriculum:

- Provides students with disciplinary knowledge,
- Helps students to develop an understanding of critical social problems, and
- Supports students in developing important academic skills including communication, critical thinking, and problem solving.
- Introduces students to interdisciplinary education,

The purpose of UWGB's Core Curriculum is to prepare students to succeed and to excel in an uncertain and ever-changing world, to help students to learn, to adapt, and to change to meet the challenges the world presents.

All students must complete the Core Curriculum requirements. Courses taken to fulfill Core Curriculum requirements may also be used simultaneously to fulfill requirements in the major, minor or certificate programs.

***Transfer students who enter UW-Green Bay with 15 or more transfer credits are not required to take a First Year Seminar. However, in order to meet the 30 credit core curriculum requirement, they must substitute the First Year Seminar with another course meeting the core learning outcomes that is a minimum of 3 credits.***

Code	Title	Credits
	<b>First Year Seminar</b>	<b>3</b>
	<b>Creative and Artistic Inquiry</b>	<b>3</b>
	<b>Global Perspective</b>	<b>3</b>
	<b>Ethnic Studies *</b>	<b>3</b>
	<b>Human Society and Behavior</b>	<b>3</b>
	<b>Environmental Sustainability</b>	<b>3</b>
	<b>Human Cultures and Values</b>	<b>3</b>
	<b>Scientific Methods &amp; Inquiry</b>	<b>3</b>

<b>Quantitative Reasoning</b>	<b>3</b>
<b>Information Literacy</b>	<b>3</b>
<b>Total Credits</b>	<b>30</b>

## Common Learning Outcomes for all Core Curriculum Courses

### Critical Thinking

CLO 1 - CT: Students will clearly posit a contextualized position, evaluate evidence, acknowledge multiple perspectives and analyze and/or synthesize information to an informed conclusion.

### Problem Solving

CLO 2 – PS: Students will clearly articulate a problem statement, identify strategies for solving the problem, evaluate potential solutions and implement an appropriate solution while evaluating outcomes.

### Textual Comprehension

CLO 3 – TC: Students will identify textual features and employ genre conventions and/or rhetorical strategies to engage a readerly voice that analyzes and interprets information while building a knowledge base about the topic.

<sup>1</sup> Contact the Office of Academic Advising (<https://www.uwgb.edu/advising/general-education/>) for information or assistance on all matters pertaining to core curriculum requirements, including advising.

\* Denotes Universities of Wisconsin requirement

## First Year Seminar

(complete 3 credits)

### Learning Outcomes

FYS 1: Students will draw on diverse disciplinary perspectives and reflect on the value of interdisciplinary problem solving.

FYS 2: Students will demonstrate effective communication through the development, interpretation, and expression of ideas through written, oral, and visual communication.

FYS 3: Students will critically evaluate information sources in various formats, recognizing the contextual nature of authority and its relation to credibility.

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>First Year Seminar <sup>1</sup></b>		
ART 198	First Year Seminar	3
AVD 198	First Year Seminar	3
BIOLOGY 198	First Year Seminar	3
BUS ADM 198	First Year Seminar	3
CHEM 198	First Year Seminar	3
COMM 198	First Year Seminar	3
COMM SCI 198	First Year Seminar	3
COMP SCI 198	First Year Seminar	3
DJS 198	First Year Seminar	3
EDUC 198	First Year Seminar	3
ENGLISH 198	First Year Seminar	3
ENV SCI 198	First Year Seminar	3
EPP 198	First Year Seminar	3
ET 198	First Year Seminar	3
FNS 198	First Year Seminar	3
GEOG 198	First Year Seminar	3
GEOSCI 198	First Year Seminar	3
HISTORY 198	First Year Seminar	3
HUM BIOL 198	First Year Seminar	3
HUM STUD 198	First Year Seminar	3
INFO SCI 198	First Year Seminar	3
ME 198	First Year Seminar	3

MGMT 198	First Year Seminar	3
MKTG 198	First Year Seminar	3
MUSIC 198	First Year Seminar	3
NUT SCI 198	First Year Seminar	3
ORG LEAD 198	Introduction to Leadership	3
PHILOS 198	First Year Seminar	3
PHYSICS 198	First Year Seminar	3
POL SCI 198	First Year Seminar	3
PSYCH 198	First Year Seminar	3
PUB ADM 198	First Year Seminar	3
SPANISH 198	First Year Seminar	3
THEATRE 198	First Year Seminar	3
WF 198	First Year Seminar	3
WOST 198	First Year Seminar	3

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

## Creative and Artistic Inquiry

(complete 3 credits)

### Learning Outcomes \*

CAI 1: Students will demonstrate artistic technical skills and domain-specific knowledge necessary to create, execute, or interpret works of art.

CAI 2: Students will apply historical, stylistic, cultural, or aesthetic knowledge to a creative process or performance using domain-appropriate criteria.

CAI 3: Students will synthesize ideas across disciplines to generate contemporary artistic responses or make fresh observations addressing the human condition.

Code	Title	Credits
ART 102	History of the Visual Arts: Ancient to Medieval	3
ART 103	History of the Visual Arts II: Renaissance to Modern	3
ART 105	Introductory Drawing	3
ART 106	Three Dimensional Design	3
ART 107	Two-Dimensional Design	3
ART 243	Introduction to Photography	3
COMM 120	Introduction to Media Production	3
ENGLISH 212	Introduction to Creative Writing	3
MET 207	Computer Aided Design	3
MUSIC 120	Video Game Music	3
MUSIC 121	Survey of Western Music	3
MUSIC 170	Fundamentals of Music	3
MUSIC 224	Popular Music Since 1955	3
THEATRE 131	Beginning Acting	3
THEATRE 218	Exploring the Arts	3

\* Courses must satisfy 2 of the 3 Learning Outcomes for this category

## Human Cultures and Values

(complete 3 credits)

### Learning Outcomes

HCV 1: Students will identify and evaluate human values and ethical perspectives in their contemporary and historical contexts.

HCV 2: Students will examine a range of historical, literary, philosophical, and other cultural texts produced in a variety of cultures.

HCV 3: Students will articulate individual and social values within cultures and the implications of decisions made on the basis of those values.

Code	Title	Credits
ENGLISH 104	Introduction to Literature	3
ENGLISH 206	Women in Literature	3
HISTORY 110	Debating European History	3
HISTORY 111	Debating American Democracy	3
HUM STUD 110	Introduction to Film	3
HUM STUD 201	Introduction to the Humanities	3
ME 150	Engineering the Future-Values and Society	3
PHILOS 101	Introduction to Philosophy	3
PHILOS 102	Contemporary Ethical Issues	3
SOC WORK 285	Ethics in Practice	3
THEATRE 110	Introduction to Theatre Arts	3
WOST 102	Women's Voices	3

## Human Society and Behavior

(complete 3 credits)

### Learning Outcomes

HSB 1: Students will demonstrate a scientific understanding of human behaviors and thoughts on both individual and societal levels, integrating the insights gained from their academic disciplines into their social and civic engagement.

HSB 2: Students will articulate their responsibilities to society- locally, nationally, and globally.

HSB 3: Students will apply empathetic communication strategies to effectively express, listen, and adapt to others to establish relationships, to work collaboratively, or to take civic action.

Code	Title	Credits
DJS 102	Introduction to Social Justice	3
ENTRP 272	Introduction to Entrepreneurship	3
HUM BIOL 215	Personal Health and Wellness	3
POL SCI 101	American Government and Politics	3
PSYCH 102	Introduction to Psychology	3
PUB ADM 202	Introduction to Public Policy	3
PUB ADM 215	Introduction to Public and Nonprofit Service	3
SOC WORK 202	Introduction to Social Services	3
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	3

## Global Perspectives

(complete 3 credits)

### Learning Outcomes

GP 1: Students will identify and explain multiple perspectives (such as cultural, disciplinary, and ethical) when exploring subjects within natural and human systems.

GP 2: Students will analyze the ethical, social and environmental consequences of human actions and decisions on the natural and human world and global systems.

GP 3: Students will explain and connect multiple cultures historically or in contemporary contexts, demonstrating respectful interaction with varied cultures and worldviews.

Code	Title	Credits
DJS 104	Introduction to Global Democracy and Human Rights	3
ENGLISH 218	World Literatures	3
FRENCH 102	Introduction to the French Language II <sup>1</sup>	4
GEOG 102	World Regions and Concepts: A Geographic Analysis	3
GERMAN 102	Introduction to the German Language II <sup>2</sup>	4
HISTORY 103	World Civilizations I	3
HISTORY 104	World Civilizations II	3
HUM BIOL 217	Human Disease and Society	3



HUM STUD 100	Global Challenges and the Human Experience	3
ME 170	Engineering in Global Context	3
NUT SCI 250	World Food and Population Issues	3
PHILOS 216	Introduction to Asian Philosophy	3
POL SCI 100	Global Politics and Society	3
SOC WORK 213	Human Trafficking	3
SPANISH 102	Introduction to the Spanish Language II <sup>3</sup>	4

<sup>1</sup> French 102 (More advanced students may instead take French 201, 202, or 320 to fulfill this Core Curriculum category and also earn additional retroactive credits).

<sup>2</sup> German 102 (More advanced students may instead take German 201, 202, or 320 to fulfill this Core Curriculum category and also earn additional retroactive credits).

<sup>3</sup> Spanish 102 (More advanced students may instead take Spanish 201, 202, 224, or 225 to fulfill this Core Curriculum category and also earn additional retroactive credits).

One of the following will also fulfill the Global Perspectives Requirement:

- Completion of any approved UW-Green Bay trip outside the United States (XXX-499), or study abroad programs, or student exchange programs outside the United States. Students should contact the Office of International Education (<https://www.uwgb.edu/international-education/>) for information on travel abroad opportunities.
- At least six months living experience outside the United States. The Associate Provost or a designee may grant a waiver of the Global Perspectives Requirement to students based on documented prior experience living in a foreign country.
- Students who are not residents of the United States will satisfy the requirement by residence and coursework at UW-Green Bay.

## Ethnic Studies

(complete 3 credits)

## Learning Outcomes

ES 1: Students will articulate insights into their own cultural rules and biases and engage respectfully with multiple perspectives/cultures.

ES 2: Students will demonstrate understanding of the complexity of elements important to members of another culture in relation to its history, values, politics, communication styles, economy, or beliefs and practices.

ES 3: Students will interpret intercultural experience from the perspectives of their own and multiple worldviews and demonstrate ability to act in a supportive manner that recognizes the feelings of another cultural group.

Code	Title	Credits
ART 281	Art of the First Nations	3
ART 282	Black Art in America	3
DJS 221	Law and Equality in Historical Perspective	3
EDUC 206	Culturally Responsive Teaching and Learning	3
FNS 201	Oneida Language I	3
FNS 210	American Indians In Film	3
FNS 225	Introduction to First Nations Studies	3
FNS 274	Wisconsin First Nations History	3
GEOG 211	American Ethnic Minorities	3
HISTORY 207	Introduction to African-American History	3
HUM STUD 120	Latinx Experiences and Voices in our Community	3
HUM STUD 213	Ethnic Diversity in America Past and Present	3
NUT SCI 202	Ethnic Influences on Nutrition	3
THEATRE 200	Script Analysis	3
WOST 201	Introduction to LGBTQ Studies	3
WOST 203	Gender in Popular Culture	3

## Scientific Methods & Inquiry

(complete 3 credits)

## Learning Outcomes

SMI 1: Students will cultivate scientific information of the appropriate depth from a variety of relevant sources.

SMI 2: Students will properly demonstrate their use of the scientific method and theoretical framework.

SMI 3: Students will skillfully evaluate and organize scientific evidence and formulate logical conclusions while discussing any relevant limitations.

Code	Title	Credits
BIOLOGY 102	Introduction to Living Systems: From Genes to Ecosystems	3
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
CHEM 108	Survey of General, Organic and Biochemistry	3
CHEM 211	Principles of Chemistry I	4
COMP SCI 181	Human-Centered Design	3
COMP SCI 191	Living and Learning with AI	3
ENGR 186	Introduction to Digital Transformation	3
ENV SCI 102	Introduction to Environmental Sciences	3
GEOSCI 202	Physical Geology	4
GEOSCI 222	Introduction to Weather & Climate	3
HUM BIOL 102	Introduction to Human Biology	3
ME 206	Chemistry for Engineers	4
PHYSICS 143	The Solar System	3

## Environmental Sustainability

(complete 3 credits)

## Learning Outcomes

EnvST 1: Students will learn and demonstrate the ethical principles of environmental sustainability.

EnvST 2: Students will articulate an understanding of the scientific principles of environmental sustainability (that may include Traditional Ecological Knowledge) and their interrelation with the natural world through multiple disciplines, systems and diverse sources of information and inquiry.

EnvST 3: Students will demonstrate the ability to discuss environmental sustainability within the context of ethical decision-making and engage in informed judgments about environmental problems as socially responsible citizens.

Code	Title	Credits
CHEM 168	Sustainability Chemistry	3
ENV SCI 203	Environmental Sustainability	3
ENV SCI 220	Sustainability Strategies and Tools for Addressing Climate Change	3
EPP 102	Environment and Society	3
HISTORY 220	American Environmental History	3
ME 216	Basic and Green Manufacturing Processes	3
SOC WORK 204	Sustainability and Social Problems	3
WATER 201	Introduction to Water Science	3

## Quantitative Reasoning

(complete 3 credits)

## Learning Outcomes

QR 1: Students will develop competency in working with numerical data.

QR 2: Students will develop the ability to solve quantitative problems in different contexts.

QR 3: Students will understand, create, and communicate arguments supported by quantitative evidence.

Code	Title	Credits
COMP SCI 140	Programming for Quantitative Problem Solving	3
ECON 202	Macro Economic Analysis	3
EDUC 281	Conceptual Foundations of Elementary Mathematics I	3
MATH 100	Math Appreciation	3
MATH 104	Precalculus	4

MATH 202	Calculus and Analytic Geometry I	4
MATH 260	Introductory Statistics	4
PHILOS 103	Logic and Reasoning	3
PHYSICS 144	Stars, Galaxies, and the Universe	3
PSYCH 205	Social Science Statistics	4

## Information Literacy

(complete 3 credits)

## Learning Outcomes

IL 1: Students will use appropriate search strategies and tools to locate information relevant to their information need, refining strategies based on search results.

IL 2: Students will critically evaluate sources of information, considering both the expertise and credibility of the creators and the contextual factors that influence the information's creation, dissemination, and purpose.

IL 3: Students will give credit to the original ideas of others through proper attribution and citation and contribute to the scholarly conversation at an appropriate level.

Code	Title	Credits
COMM 102	Introduction to Communication	3
COMP SCI 171	Technology, Ethics, and Society	3
ENGR 236	Technical Writing and Information Literacy	3
ENV SCI 105	Scientific Literacy	3
HISTORY 256	Why History Matters	3
HUM BIOL 206	Biology of Human Sexuality	3
HUM STUD 230	Comics, Society, and Culture	3
NUT SCI 242	Food and Nutritional Health	3
PHILOS 113	AI, Algorithms, and Truth	3
PSYCH 204	Great Myths of the Mind	3

## Graduation Requirements

- AAS Degree (p. 51)
- Bachelor Degree (p. 52)

## Associate of Arts & Sciences Degree

### Minimum Requirements

#### Degree Credits

60 degree credits

#### Grade Point Average

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

#### Core Curriculum

30 credits of breadth (see C (<http://catalog.uwgb.edu/undergraduate/planning/general-education/>)ore Curriculum) (p. 45)

#### Writing Competency

0-6 credits (see Writing Competency) (p. 53)

#### Math Competency

0-3 credits (see Math Competency) (p. 53)

## Writing Emphasis Requirement: 2 courses

All students must complete two Writing Emphasis courses. Courses taken to fulfill the Writing Emphasis may also be used, simultaneously, to fulfill any other requirements. (see Writing Emphasis) (p. 54)

## Area of Study

12 credits defined by an academic adviser (see Area of Study) (p. 52)

## Residency

15 credits minimum must be earned at UW-Green Bay

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

## Area of Study

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

1. **Business:** Any 12 credits of ACCTG, BUS ADM, ECON, FIN, HRM, MKTG, MGMT, and/or SCM.
2. **Music and Performing Arts:** Any 12 credits of MUSIC, MUS APP, MUS ENS, or THEATRE
3. **Fine Arts:** Any 12 credits of ART, ARTS MGT, or DESIGN
4. **Natural Sciences:** Any 12 credits of BIOLOGY, CHEM, GEOSCI, ENV SCI, or PHYSICS
5. **Human Biology:** Any 12 credits of BIOLOGY, CHEM, HUM BIOL, or NUT SCI
6. **Social Sciences** (Individual focus within social sciences): Any 12 credits of ANTHRO, COMM SCI, EDUC 206, PSYCH, SOCIOL, or WOST (Note: Only this specific Education course has been approved)
7. **Community Sciences** (community focus within social sciences): Any 12 credits of ANTHRO, COMM SCI, ECON, GEOG, HISTORY, POL SCI, PU EN AF, DJS, SOCIOL or UR RE ST
8. **Humanities:** Any 12 credits of ENGLISH, FNS, HISTORY, HUM STUD, PHILOS, or foreign language (The foreign language credits should not include credits given retroactively)
9. **Computing and Information Sciences:** Any 12 credits of COMP SCI or INFO SCI
10. **Communication:** Any 12 credits of COMM
11. **Individualized Area of Emphasis:** Any 12 credits of coursework reflecting a specific area of interest or study, chosen by the student, and approved by an advisor.

## Bachelor Degree

### Minimum Requirements

#### Degree Credits

120 degree credits

#### Grade Point Average

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

#### Core Curriculum

30 credits of breadth (see Core Curriculum) (p. 45)

#### Writing Competency

0-6 credits (see Writing Competency) (p. 53)

## Math Competency

0-3 credits (see Math Competency) (p. 53)

## High Impact Practices

1-3 courses (see High Impact Practices) (p. 59)

## Ethnic Studies

3 credits (UW System requirement satisfied by Core Curriculum Ethnic Studies (p. ) course)

## Writing Emphasis Requirement: 4 courses

All students must complete four Writing Emphasis courses. At least two of these courses must be at the upper level. Courses taken to fulfill the Writing Emphasis may also be used, simultaneously, to fulfill any other requirements. (see Writing Emphasis) (p. 54)

## Major

30 credits minimum

## Residency

30 credits minimum must be earned at UW-Green Bay (see Degree Residency Requirement) (p. 26)

## Additional Options

### Minor

18 credits minimum

### Certificate

12 credits minimum

## Graduation Honors

(see All-University Academic Honors) (p. 20)

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

## Math Competency

Students should 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 not be allowed to register for mathematics classes, or for courses with college-level mathematics as a prerequisite 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 100, BUSAN 220, or PSYCH 205 depending on academic program. Students should consult with their advisor to determine the appropriate course.

see also University Testing Requirements (p. 39)

## Writing Competency

WF 100 (or transferred equivalent) is required for students who earn a 24 or lower ACT English score or a 31 or lower SAT Reading score. Students should complete WF 100 by the end of their second semester at UWGB.

WF 105 or WF 200<sup>1</sup> or ENGR 236<sup>2</sup> or ENV SCI 239<sup>3</sup> (or transferred equivalent) is required unless students have earned a 32 or higher ACT English score or a 39 or higher SAT Reading score. Students should complete WF 105 or WF 200 by the end of their third semester at UWGB. The pre-requisite course for this requirement is WF 100 or equivalent.

<sup>1</sup> Students majoring in programs in the Cofrin School of Business take WF 200 in place of WF 105.

<sup>2</sup> Students majoring in Environmental Engineering Technology, Electrical Engineering Technology, Mechanical Engineering Technology, Electrical Engineering, Mechanical Engineering or Computer Science take ENGR 236 in place of WF 105.

<sup>3</sup> Students majoring in Biology, Chemistry, Environmental Science, Geoscience, and Water Science take ENV SCI 239 in place of WF 105.

see also University Testing Requirements (p. 39)

## Writing Emphasis

Writing Emphasis courses provide students with the opportunity to practice and improve their writing skills across the curriculum. Associate degree students must complete two writing emphasis courses. Bachelor degree students must complete four writing emphasis courses, at least two of these courses must be at the upper level. Courses taken to fulfill the Writing Emphasis (p. 37) may also be used, simultaneously, to fulfill any other requirements, including general education breadth requirements and requirements in the major, minor, or certificate programs.

### Learning Outcomes for Writing Emphasis Courses

- Students will state important points and support them with illuminating details and examples.
- Students will demonstrate an ability to write in clear and lucid academic prose and to properly employ academic conventions (writing style, transitions, source integration, etc.).
- Students will demonstrate an advanced understanding of academic citation (if required by assignment).
- Students will demonstrate the ability to analyze logically and consistently and to draw meaningful implications.
- Students will demonstrate a clear and strong command of English grammar with regard to correctness, sentence structuring, and proper punctuation.

Code	Title	Credits
<b>Writing Emphasis</b>		
ACCTG 412	Auditing Standards and Procedures	4
ACCTG 414	Cost Accounting	4
ACCTG 460	Accounting Capstone	3
ANTHRO 304	Family, Kin, and Community	3
ANTHRO 306	Environmental Anthropology	3
ANTHRO 320	Myth, Ritual, Symbol and Religion	3
ART 198	First Year Seminar	3
ART 344	Photography III	3
ART 373	Intermediate Printmaking	3
ART 379	Women, Art and Image	3
ART 443	Advanced Problems in Photography	3
BIOLOGY 198	First Year Seminar	3
BIOLOGY 204	Principles of Biology Lab: Organisms and Evolution	1
BIOLOGY 304	Genetics Laboratory	1
BIOLOGY 306	Principles of Ecology	4
BIOLOGY 308	Cell Biology Laboratory	1
BIOLOGY 311	Plant Physiology	4
BIOLOGY 340	Comparative Anatomy of Vertebrates	4
BIOLOGY 402	Advanced Microbiology	4
BIOLOGY 469	Conservation Biology	4
BUSAN 370	Data Science for Managers	3
CHEM 198	First Year Seminar	3
CHEM 322	Thermodynamics and Kinetics Laboratory	1
CHEM 323	Structure of Matter Laboratory	1
CHEM 325	Biophysical Chemistry Laboratory	1
CHEM 413	Instrumental Analysis	4
COMM 185	Business and Media Writing	3
COMM 198	First Year Seminar	3
COMM 305	Principles of Public Relations/Corporate Communications	3
COMM 309	Mass Media Advertising	3
COMM 333	Persuasion and Argumentation	3
COMM 336	Theories of the Interview	3
COMM 382	Public Relations Campaigns	3
COMM 390	Sports Writing, Promotion, and Public Relations	3
COMM 425	Digital Journalism	3
COMM 474	Media Workshop	3

COMM SCI 198	First Year Seminar	3
COMP SCI 353	Computer Architecture and Organization	3
COMP SCI 358	Data Communication and Computer Networks	3
COMP SCI 372	Software Engineering	3
COMP SCI 490	Capstone in Computer Science	3
COMP SCI 497	Internship	3
DJS 198	First Year Seminar	3
DJS 348	Gender and the Law	3
DJS 361	Historical Perspectives on American Democracy	3
DJS 363	Topics in Democracy and Justice	3
DJS 470	Senior Seminar in Democracy and Justice Studies	3
ECON 305	Environmental Economics	3
ECON 310	Introduction to Econometrics	3
ECON 340	Economics of Land Use	3
ECON 403	International Economics and Finance	3
EDUC 198	First Year Seminar	3
EDUC 206	Culturally Responsive Teaching and Learning	3
EDUC 307	Teaching Reading in the Elementary and Middle Schools	3
EDUC 309	Teaching Language Arts in the Elementary and Middle Schools	3
EDUC 319	Adolescent Literature in Middle and Secondary School Reading	3
EDUC 352	Social and Family Influences on Development and Learning	3
EDUC 361	Introduction to the Art and Science of Teaching	3
EDUC 422	Reading in the Content Areas	3
EDUC 452	Principles of Middle Level Education	3
ENGLISH 104	Introduction to Literature	3
ENGLISH 201	Ethics in Writing	3
ENGLISH 200	Arts Entrepreneurship	3
ENGLISH 206	Women in Literature	3
ENGLISH 212	Introduction to Creative Writing	3
ENGLISH 214	Introduction to English Literature I	3
ENGLISH 216	Introduction to American Literature I	3
ENGLISH 217	Introduction to American Literature II	3
ENGLISH 218	World Literatures	3
ENGLISH 219	World Literatures II	3
ENGLISH 226	Grammar	3
ENGLISH 227	Copyediting and Workflow	3
ENGLISH 228	Introduction to Technical and Professional Writing	3
ENGLISH 236	Multicultural American Literature	3
ENGLISH 264	Topics in Literature	3
ENGLISH 290	Literary Studies	3
ENGLISH 301	Intermediate Creative Writing	3
ENGLISH 302	Short Fiction Writing Workshop	3
ENGLISH 303	Advanced Poetry Writing Workshop	3
ENGLISH 304	Creative Nonfiction Writing	3
ENGLISH 305	Novel Writing Workshop	4
ENGLISH 306	Novel Revision Workshop	4
ENGLISH 307	Writing the Environment Workshop	3
ENGLISH 309	Co-Creative Writing Workshop	3
ENGLISH 310	Topics in Game Writing	3
ENGLISH 312	Topics in Creative Writing	3
ENGLISH 314	Topics in Professional & Technical Writing	3
ENGLISH 315	The British Novel	3

ENGLISH 316	The English Novel: 1850's to the Present	3
ENGLISH 320	Major Drama	3
ENGLISH 322	Major Poetry	3
ENGLISH 323	Topics in Literary Criticism	3
ENGLISH 327	Digital Platforms for Publishing	3
ENGLISH 331	Major American Prose Fiction	3
ENGLISH 333	Literary Themes	3
ENGLISH 335	Literary Eras	3
ENGLISH 336	American Ethnic Literature	3
ENGLISH 338	World Literatures	3
ENGLISH 340	History of the English Language	3
ENGLISH 344	African American Literature	3
ENGLISH 345	LGBTQ Literature	3
ENGLISH 364	Literary Topics	3
ENGLISH 400	English Capstone	3
ENGLISH 410	Live Video Streaming Practicum	3
ENGLISH 431	Shakespeare	3
ENGLISH 436	Major Author(s)	3
ENGR 236	Technical Writing and Information Literacy	3
ENGR 322	Engineering Measurements Lab	1
ENGR 460	Senior Design	3
ENGR 462	Senior Design Project	3
ENTRP 481	Small Business Management & Family Entrepreneurship	3
ENV SCI 198	First Year Seminar	3
ENV SCI 330	Hydrology	3
ENV SCI 339	Scientific Writing	3
ENV SCI 460	Resource Management Strategy	3
ENV SCI 467	Research Experience in Environmental Science	4
EPP 323	Sustainable Land Use	3
EPP 412	Urban and Regional Planning	3
ET 330	Hydrology	3
ET 390	Mechatronics	3
ET 400	Co-op/Internship in Engineering Technology	3
ET 410	Capstone Project	3
FIN 345	Risk Management and Insurance	3
FIN 415	Employee Benefits and Retirement Planning	3
FIN 425	Estate and Trust Planning	3
FIN 442	Principles of Investment	3
FIN 480	Student Managed Investment Fund	3
FNS 198	First Year Seminar	3
FNS 295	Special Topics in First Nations Studies	3
FNS 336	American Ethnic Literature	3
FNS 395	Special Topics in First Nations Studies	3
FRENCH 320	Intermediate Composition and Conversation	3
FRENCH 325	Advanced French Conversation and Composition	3
GEOG 370	Geography of South America	3
GEOG 470	Glacial Geology & Landscapes	3
GEOSCI 198	First Year Seminar	3
GEOSCI 203	Earth System History	3
GEOSCI 402	Sedimentology & Stratigraphy	3
GEOSCI 470	Glacial Geology & Landscapes	3
GEOSCI 492	Special Topics in Geoscience	1-4



GERMAN 320	Intermediate German Conversation and Composition	3
GERMAN 325	Advanced German Conversation and Composition	3
GERMAN 357	German Cinema	3
HIMT 420	Healthcare Systems: Project Management	3
HISTORY 207	Introduction to African-American History	3
HISTORY 220	American Environmental History	3
HISTORY 256	Why History Matters	3
HISTORY 309	United States Immigration History	3
HISTORY 310	American Colonial History	3
HISTORY 312	The Early American Republic	3
HISTORY 326	Global Environmental History	3
HISTORY 332	Europe in the 19th Century	3
HISTORY 333	Europe in the 20th Century	3
HISTORY 334	Contemporary Europe	3
HISTORY 353	The U.S. and the World	3
HISTORY 370	History of Sexuality in the U.S.	3
HISTORY 380	U.S. Women's History	3
HISTORY 421	Topics in Medieval History	3
HISTORY 422	Topics in Early Modern European History	3
HISTORY 423	Topics in Modern European History	3
HISTORY 424	Nazi Germany	3
HISTORY 425	Topics in U.S. History	3
HISTORY 480	Seminar in History	3
HRM 460	Employee Development and Training	3
HRM 466	Employment Law	3
HUM BIOL 198	First Year Seminar	3
HUM BIOL 202	Ethnic Minorities in Science	3
HUM BIOL 205	Biotechnology and Human Values	3
HUM BIOL 310	Human Genetics	3
HUM BIOL 331	Science and Religion: Spirit of Inquiry	3
HUM BIOL 360	Exercise Physiology	3
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism	1
HUM BIOL 403	Human Physiology Laboratory	1
HUM BIOL 405	Biotechnology and Ethics	3
HUM BIOL 422	Immunology	3
HUM BIOL 444	Endocrinology	3
HUM STUD 160	Introduction to Language	3
HUM STUD 198	First Year Seminar	3
HUM STUD 210	Film and Society	3
HUM STUD 213	Ethnic Diversity in America Past and Present	3
HUM STUD 230	Comics, Society, and Culture	3
HUM STUD 319	Second Language Acquisition & Assessment	3
HUM STUD 321	Sociolinguistics	3
HUM STUD 337	The Age of Reason	3
HUM STUD 351	Interdisciplinary Themes in Humanities	3
HUM STUD 352	Literatures in Translation	3
HUM STUD 353	Latinx Culture	3
HUM STUD 360	Globalization and Cultural Conflict	3
HUM STUD 375	Humanities, Business and Critical Thinking	3
HUM STUD 382	Romanticism to Modernism	3
HUM STUD 383	Contemporary Cultural Issues	3
HUM STUD 384	Topics in World Cultures	3

INFO SCI 198	First Year Seminar	3
INFO SCI 201	Information, Computers and Society	3
INFO SCI 341	Survey of Gaming and Interactive Media	3
MATH 314	Proofs in Number Theory and Topology	3
MATH 329	Applied Regression Analysis	4
ME 198	First Year Seminar	3
MGMT 472	Leadership Development	3
MGMT 479	Organizational Culture & Design	3
MKTG 421	International Marketing	3
MKTG 426	Marketing Strategy	3
MKTG 428	Consumer Behavior	3
MUSIC 198	First Year Seminar	3
MUSIC 353	Music History I	3
MUSIC 423	Seminar in Music Literature	3
NURSING 198	First Year Seminar	3
NURSING 370	Evidence-Based Practice: Translating Research to Practice	2
NURSING 390	Leadership for Sustainable Healthcare: Health Disparities, Health Equity, & the Nursing Profession	3
NURSING 407	Foundations of Professional Nursing Practice	3
NURSING 480	Leadership: Nursing in an Evolving Healthcare System	3
NURSING 490	Synthesis for Nursing Practice	3
NUT SCI 198	First Year Seminar	3
NUT SCI 421	Community and Public Health Nutrition	3
ORG LEAD 198	Introduction to Leadership	3
ORG LEAD 301	Rising Leadership	3
ORG LEAD 302	Gender & Equity in Organizational Leadership	3
ORG LEAD 348	Organizational Behavior Across Sectors	3
ORG LEAD 400	Organizational Leadership Capstone	3
PHILOS 208	Biomedical Ethics	3
PHILOS 212	Philosophy, Religion, and Science	3
PHILOS 213	Ancient Philosophy	3
PHILOS 227	Business Ethics	3
PHILOS 308	Philosophy and the Sciences	3
PHILOS 324	Contemporary Philosophy	3
PHILOS 351	Happiness and the Good Life	3
PHILOS 420	Metaphysics	3
PHYSICS 198	First Year Seminar	3
POL SCI 198	First Year Seminar	3
POL SCI 306	Regulatory Policy and Administration	3
POL SCI 310	The American Presidency	3
POL SCI 316	Congress: Politics and Policy	3
POL SCI 318	Political Behavior	3
POL SCI 378	Environmental Law	3
POL SCI 340	Political Theory	3
PSYCH 198	First Year Seminar	3
PSYCH 300	Research Methods in Psychology	4
PSYCH 344	Dying, Death, and Loss	3
PSYCH 401	Psychology of Women and Gender	3
PSYCH 432	Wrongful Convictions	3
PSYCH 443	Spirituality and Development	3
PSYCH 490	Capstone in Psychology	3
PSYCH 492	Applied Research Lab	3
PUB ADM 198	First Year Seminar	3

PUB ADM 301	Environmental Politics and Policy	3
PUB ADM 306	Regulatory Policy and Administration	3
PUB ADM 315	Public and Non-Profit Management	3
PUB ADM 322	Environmental Planning	3
PUB ADM 326	Philanthropy: Civic Engagement through Giving	3
PUB ADM 344	Leadership in Organizations	3
PUB ADM 408	Public Policy Analysis	3
SCM 384	Advanced Supply Chain Management	3
SOC WORK 198	First Year Seminar	3
SOC WORK 411	Micro Methods I	3
SOCIO 308	Sociology of the Family	3
SOCIO 310	Urban Sociology	3
SOCIO 324	Latino Communities in the United States	3
SOCIO 357	Environmental Justice	3
SPANISH 198	First Year Seminar	3
SPANISH 224	Heritage Language and Culture	3
SPANISH 225	Composition and Conversation	3
SPANISH 329	Representative Spanish and Latin American Authors	3
SPANISH 355	Spanish and Latin American Cinema	3
SPANISH 465	Special Topics	3
THEATRE 198	First Year Seminar	3
THEATRE 200	Script Analysis	3
THEATRE 211	World Theatre and Performance	3
THEATRE 250	Dramaturgy I (Theatre Theory & Research Methods)	3
THEATRE 302	Playwriting I	3
THEATRE 309	Theatre History I: Greek to 19th Century	3
THEATRE 310	Theatre History II: Realism to Contemporary	3
THEATRE 402	Playwriting II (the Long Play)	3
THEATRE 410	Playwrights Workshop	3
THEATRE 415	Contemporary Playwriting Methods	3
THEATRE 450	Dramaturgy II (Theatre Theory in Practice)	3
UR RE ST 313	The City Through Time and Space	3
UR RE ST 342	Community Economic Development	3
WF 105	Research and Rhetoric	3
WF 198	First Year Seminar	3
WF 200	Professional Writing for Business Majors	3
WOST 198	First Year Seminar	3
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	3

## High Impact Practices

High Impact Practice courses provide students with

Bachelor degree students must complete three high impact practice courses. Courses taken to fulfill the High Impact Practice may also be used, simultaneously, to fulfill any other requirements, including core curriculum breadth requirements and requirements in the major, minor, or certificate programs.

Code	Title	Credits
any 299 or 499 Travel Course		
ACCTG 297	Internship	1
ACCTG 316	Governmental and Nonprofit Accounting	3
ACCTG 412	Auditing Standards and Procedures	4
ACCTG 415	Advanced Income Tax Theory and Practice	3
ACCTG 460	Accounting Capstone	3

ACCTG 495	Teaching Assistantship	1-6
ACCTG 496	Project/Research Assistantship	1-6
ACCTG 497	Internship	1-12
ART 302	Intermediate Drawing	3
ART 304	Figure Drawing	3
ART 331	Intermediate Ceramics	3
ART 335	Intermediate Woodworking & Furniture Design	3
ART 344	Photography III	3
ART 376	Modern American Culture	3
ART 401	Senior Exhibition Seminar	3
ART 402	Advanced Drawing	3
ART 410	Advanced Painting	3
ART 421	Advanced Sculpture	3
ART 431	Advanced Ceramics	3
ART 435	Advanced Woodworking & Furniture Design	3
ART 443	Advanced Problems in Photography	3
ART 453	Advanced Fibers/Textiles	3
ART 470	Advanced Printmaking	3
ART 497	Internship	1-12
BIOLOGY 304	Genetics Laboratory	1
BIOLOGY 306	Principles of Ecology	4
BIOLOGY 308	Cell Biology Laboratory	1
BIOLOGY 310	Plant Biodiversity	4
BIOLOGY 311	Plant Physiology	4
BIOLOGY 320	Field Botany	4
BIOLOGY 341	Fish Biology and Ecology	4
BIOLOGY 342	Ornithology	4
BIOLOGY 343	Mammalogy	4
BIOLOGY 355	Entomology	4
BIOLOGY 365	Aquatic Invertebrates	4
BIOLOGY 401	Fish and Wildlife Population Dynamics	4
BIOLOGY 402	Advanced Microbiology	4
BIOLOGY 408	Molecular Biology Laboratory	1
BIOLOGY 469	Conservation Biology	4
BIOLOGY 498	Independent Study	1-4
BUS ADM 297	Internship	1-6
BUS ADM 495	Teaching Assistantship	1-6
BUS ADM 496	Project/Research Assistantship	1-6
BUS ADM 497	Internship	1-12
BUSAN 450	Database for Business Analytics	3
BUSAN 452	Business Analytics	3
BUSAN 495	Teaching Assistantship	1-6
BUSAN 496	Project/Research Assistantship	1-6
BUSAN 497	Internship	1-12
CHE 440	Capstone Seminar	3
CHE 450	Community Health Education Field Practicum	9
CHEM 311	Analytical Chemistry	4
CHEM 305	Organic Chemistry Laboratory II	1
CHEM 322	Thermodynamics and Kinetics Laboratory	1
CHEM 323	Structure of Matter Laboratory	1
CHEM 325	Biophysical Chemistry Laboratory	1
CHEM 331	Biochemistry Laboratory	1

CHEM 411	Inorganic Chemistry Laboratory	1
CHEM 495	Teaching Assistantship	1-6
CHEM 496	Project/Research Assistantship	1-6
CHEM 497	Internship	1-12
CHEM 498	Independent Study	1-6
COMM 306	Radio Broadcasting	3
COMM 425	Digital Journalism	3
COMM 474	Media Workshop	3
COMM SCI 200	Civic Scholars Practicum	3
COMM SCI 400	Civic Scholars Leadership Program Spring Community-Based Practicum	2-3
COMM SCI 497	Internship	1-12
COMP SCI 362	Artificial Intelligence & Data Science	3
COMP SCI 490	Capstone in Computer Science	3
DESIGN 431	Graphic Design Studio III	3
DESIGN 435	Design Arts Publication Workshop	3
DESIGN 475	Professional Practice Capstone	3
DJS 200	Mentoring for Equity and Inclusion	3
DJS 400	Mentoring for Equity and Inclusion	3
DJS 495	Teaching Assistantship	1-6
DJS 497	Internship	1-12
ECON 302	Intermediate Macro Economic Theory	3
ECON 330	Money, Banking and Financial Markets	3
ECON 495	Teaching Assistantship	1-6
ECON 496	Project/Research Assistantship	1-6
ECON 497	Internship	1-12
ENGLISH 212	Introduction to Creative Writing	3
ENGLISH 218	World Literatures	3
ENGLISH 224	Practicum in Literary Publishing	3
ENGLISH 303	Advanced Poetry Writing Workshop	3
ENGLISH 305	Novel Writing Workshop	4
ENGLISH 306	Novel Revision Workshop	4
ENGLISH 307	Writing the Environment Workshop	3
ENGLISH 309	Co-Creative Writing Workshop	3
ENGLISH 310	Topics in Game Writing	3
ENGLISH 324	Sheepshead Review Practicum	3
ENGLISH 327	Digital Platforms for Publishing	3
ENGLISH 329	Placemaking and Writing	3
ENGLISH 400	English Capstone	3
ENGLISH 410	Live Video Streaming Practicum	3
ENGLISH 424	Book Editing Practicum	3
ENGLISH 428	Practicum in Community Engaged Writing	3
ENGR 121	Electrical Circuits I Lab	1
ENGR 462	Senior Design Project	3
ENTRP 481	Small Business Management & Family Entrepreneurship	3
ENTRP 486	Design Thinking and Developing Business Models	3
ENTRP 495	Teaching Assistantship	1-6
ENTRP 496	Project/Research Assistantship	1-6
ENTRP 497	Internship	1-12
ENV SCI 103	Introduction to Environmental Sciences Lab	1
ENV SCI 305	Environmental Fate and Transport	4
ENV SCI 337	Environmental GIS	3
ENV SCI 401	Stream Ecology	4

ENV SCI 403	Limnology	4
ENV SCI 490	EMBI Co-Op/Experience	3
EPP 412	Urban and Regional Planning	3
ET 400	Co-op/Internship in Engineering Technology	3
ET 410	Capstone Project	3
FIN 415	Employee Benefits and Retirement Planning	3
FIN 442	Principles of Investment	3
FIN 446	Advanced Corporation Finance	3
FIN 475	Financial Plan Development	3
FIN 480	Student Managed Investment Fund	3
FIN 495	Teaching Assistantship	1-6
FIN 496	Project/Research Assistantship	1-6
FIN 497	Internship	1-12
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	3
FNS 360	Women and Gender in First Nations Communities	3
FNS 391	First Nations Studies Capstone Seminar	3
FRENCH 320	Intermediate Composition and Conversation	3
FRENCH 325	Advanced French Conversation and Composition	3
FRENCH 498	Independent Study	1-4
GEOSCI 340	Introduction to Mineralogy & Petrology	4
GEOSCI 402	Sedimentology & Stratigraphy	3
GEOSCI 421	Geoscience Field Trip	1-3
GEOSCI 432	Hydrogeology	3
GEOSCI 470	Glacial Geology & Landscapes	3
GERMAN 201	Intermediate German Language I	3
GERMAN 202	Intermediate German Language II	3
GERMAN 320	Intermediate German Conversation and Composition	3
GERMAN 325	Advanced German Conversation and Composition	3
GERMAN 329	Representative German Authors	3
GERMAN 333	Literary Themes	3
GERMAN 355	Deutsche Kultur und Landeskunde	3
GERMAN 358	German Politics and Society	3
GERMAN 497	Internship	1-12
GERMAN 498	Independent Study	1-4
HIMT 430	Quality Assessment and Improvement	3
HIMT 490	Capstone	3
HISTORY 290	The Craft of History	3
HISTORY 400	Voyageur Magazine Practicum	3
HISTORY 415	Living History and Reenactment for Public Historians	3
HISTORY 480	Seminar in History	3
HISTORY 497	Internship	1-12
HRM 460	Employee Development and Training	3
HRM 467	Compensation and Benefits Planning	3
HRM 470	SHRM-CP Prep I	3
HRM 495	Teaching Assistantship	1-6
HRM 496	Project/Research Assistantship	1-6
HRM 497	Internship	1-12
HUM BIOL 326	Medical Microbiology Lab	1
HUM BIOL 341	Human Anatomy Laboratory	1
HUM BIOL 351	Kinesiology	4
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism	1
HUM BIOL 403	Human Physiology Laboratory	1

HUM STUD 120	Latinx Experiences and Voices in our Community	3
HUM STUD 200	Finding Humanity in the Digital World	3
MATH 306	Statistical Programming	3
MATH 314	Proofs in Number Theory and Topology	3
MATH 329	Applied Regression Analysis	4
ME 221	Mechanics of Materials Lab	1
ME 460	Senior Design	3
MET 390	Mechatronics	3
MGMT 452	Teams	3
MGMT 472	Leadership Development	3
MGMT 482	Capstone in Business Strategy	3
MGMT 495	Teaching Assistantship	1-6
MGMT 496	Project/Research Assistantship	1-6
MGMT 497	Internship	1-12
MKTG 297	Internship	1-6
MKTG 345	Digital Marketing	3
MKTG 423	Advertising	3
MKTG 495	Teaching Assistantship	1-6
MKTG 496	Project/Research Assistantship	1-6
MKTG 497	Internship	1-12
MUS APP 101	Keyboard Lessons 1	1-2
MUS APP 102	Keyboard Lessons 2	1-2
MUS APP 105	Voice Lessons 1	1-2
MUS APP 106	Voice Lessons 2	1-2
MUS APP 127	Instrumental Lessons 1	1-2
MUS APP 128	Instrumental Lessons 2	1-2
MUS APP 201	Keyboard Lessons 3	1-2
MUS APP 202	Keyboard Lessons 4	1-2
MUS APP 205	Voice Lessons 3	1-2
MUS APP 206	Voice Lessons 4	1-2
MUS APP 227	Instrumental Lessons 3	1-2
MUS APP 228	Instrumental Lessons 4	1-2
MUS APP 301	Keyboard Lessons 5	1-3
MUS APP 302	Keyboard Lessons 6	1-3
MUS APP 305	Voice Lessons 5	1-3
MUS APP 306	Voice Lessons 6	1-3
MUS APP 327	Instrumental Lessons 5	1-3
MUS APP 328	Instrumental Lessons 6	1-3
MUS APP 401	Keyboard Lessons 7	1-3
MUS APP 402	Keyboard Lessons 8	1-3
MUS APP 405	Voice Lessons 7	1-3
MUS APP 406	Voice Lessons 8	1-3
MUS APP 427	Instrumental Lessons 7	1-3
MUS APP 428	Instrumental Lessons 8	1-3
MUS ENS 143	Jazz Ensemble	1
MUS ENS 241	Concert Bands and Orchestra	1
MUS ENS 261	University Singers	1
MUS ENS 262	Concert Choir	1
MUS ENS 343	Jazz Ensemble	1
MUS ENS 441	Concert Bands and Orchestra	1
MUS ENS 461	University Singers	1
MUS ENS 462	Concert Choir	1

MUSIC 209	Applied Composition	1
MUSIC 411	Advanced Composition	1-2
NURSING 290	Foundations of Nursing Practice: Practicum/Experiential Learning	2
NURSING 332	Health & Illness Concepts I: Practicum	2
NURSING 380	Alterations in Health & Illness II: Practicum/Simulation	2
NURSING 420	Nursing with Diverse Populations Practicum	2
NURSING 455	Community Health Nursing Practicum	3
NURSING 461	Care Transitions Practicum Immersion	4
NURSING 490	Synthesis for Nursing Practice	3
NUT SCI 312	Quantity Food Production and Service	4
ORG LEAD 346	Organizational Research and Statistics	3
ORG LEAD 400	Organizational Leadership Capstone	3
ORG LEAD 497	Internship	1-6
PHYSICS 142	Observational Astronomy	1
PHYSICS 203	Introductory Physics Lab I	1
PHYSICS 204	Introductory Physics Lab II	1
POL SCI 318	Political Behavior	3
POL SCI 333	Political Science Research Lab	3
POL SCI 406	State and Local Government	3
POL SCI 495	Teaching Assistantship	1-6
POL SCI 497	Internship	1-12
PSYCH 103	Applied Learning	3
PSYCH 300	Research Methods in Psychology	4
PUB ADM 326	Philanthropy: Civic Engagement through Giving	3
PUB ADM 408	Public Policy Analysis	3
PUB ADM 430	Seminar in Ethics and Public Action	3
PUB ADM 495	Teaching Assistantship	1-6
PUB ADM 496	Project/Research Assistantship	1-6
PUB ADM 497	Internship	1-12
PUB ADM 498	Independent Study	1-4
SCM 383	Enterprise Resource Planning	3
SCM 384	Advanced Supply Chain Management	3
SCM 495	Teaching Assistantship	1-6
SCM 496	Project/Research Assistantship	1-6
SCM 497	Internship	1-12
SE 490	Software Engineering Capstone	3
SOC WORK 313	Skills I: Professionalism & Teamwork	2
SOC WORK 402	Field Practicum I	4
SOC WORK 403	Field Practicum II	4
SOC WORK 461	Applied Research I	2
SOC WORK 462	Applied Research II	1
SPANISH 224	Heritage Language and Culture	3
SPANISH 225	Composition and Conversation	3
SPANISH 358	Latin America Today	3
SPANISH 359	The Cultures of the Americas	3
SPANISH 372	Spanish Phonetics	3
SPANISH 383	Spanish in the Professions	3
SPANISH 454	Translation and Interpretation	3
SPANISH 465	Special Topics	3
SPANISH 497	Internship	1-12
SPANISH 498	Independent Study	1-4
THEATRE 131	Beginning Acting	3



THEATRE 241	Improvisation for Business	3
THEATRE 234	Acting for the Camera	3
WOST 350	Topics in Women's, Gender, and Sexuality Studies	3

## Art

### Bachelor of Arts in Art

The visual arts provide multiple ways of articulating and understanding our human experience through processes of seeing, making, and thinking. The major or minor in Art includes courses in studio art and art history, global cultures, professional practices and contemporary art.

Our 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.

All Art Majors/Minors are presented with multiple opportunities to show and even sell their work in public exhibitions every year. The Senior Show option is a popular capstone experience wherein students in good standing and appropriate permissions may work with their studio faculty mentors to create a body of work reflecting their own vision, and concurrently learn the basics of art exhibition in a classroom setting, collaborating with additional faculty and the professional curator of the Lawton Gallery.

#### 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.

All areas prepare students for viable careers or entry into graduate school programs.

Art majors often combine their studies with a minor. Typical minors include Graphic Design, Art History, Psychology, Business/Entrepreneurship, Women's, Gender and Sexuality Studies, and Writing and Applied Arts. The Art advisor can help select an appropriate minor depending upon students' individual goals.

#### 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.
- introduce students to the structure of the art world and the roles artists play in different cultures

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

Art majors graduating from our program are often qualified to seek careers in visual arts administration, art galleries, and museums with appropriate advising and selection of a minor.

Students should seek 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, publishing, game design, museum collection management, or environmental planning
- students who intend it as a component of professional studies in fields such as education and marketing/advertising.

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

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

Major Area of Emphasis (p. 358)

Students must complete requirements in one of the following areas of emphasis: (p. 358)

- Art Education (p. 358)
- Pre-Art Therapy (p. 358)
- Studio Art (p. 358)

Minor Area of Emphasis (p. 361)

Students must complete requirements in one of the following areas of emphasis: (p. 361)

- Art History (p. 361)
- Studio Art (p. 361)

Curriculum Guide

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

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	3
ART 105 or ART 106 or ART 107	Introductory Drawing or Three Dimensional Design or Two-Dimensional Design	3
First Year Seminar		3
General Ed		3
General Ed or Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 103	History of the Visual Arts II: Renaissance to Modern	3
ART 105 or ART 106	Introductory Drawing or Three Dimensional Design	3
ART 106 or ART 107	Three Dimensional Design or Two-Dimensional Design	3
General Ed		3
General Ed or Elective		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ART 101	Tools, Safety, and Materials	1
ART 2XX Intro Two-Dimensional Course		3
ART 2XX Intro Three-Dimensional Course		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>16</b>

<b>Spring</b>		
ART 2XX Intro Two-Dimensional Course		3
ART 302	Intermediate Drawing	3
ART 202	Modern Art	3
DESIGN 131	Introduction to Design and Culture	3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
ART 376	Modern American Culture	3
DESIGN 231	Graphic Design Studio I	3
General Ed or Elective		3
General Ed or Elective		3
General Ed or Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 3XX/4XX Intermediate/Advanced Course		3
ART 3XX/4XX Intermediate/Advanced Course		3
DESIGN 231 or DESIGN 332	Graphic Design Studio I or Graphic Design Studio II	3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ART 3XX/4XX Intermediate/Advanced Course		3
DESIGN 332 or DESIGN 431	Graphic Design Studio II (or DESIGN 3XX/4XX Minor Elective) or Graphic Design Studio III	3
General Ed		3
General Ed or Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 3XX/4XX Intermediate/Advanced Course		3
ART 3XX/4XX Intermediate/Advanced Course		3
DESIGN 433	Advanced Studio (or DESIGN 3XX/4XX Minor Elective)	3
Elective		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>121</b>

## Faculty

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

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

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

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

**Lisa Wicka**; Associate Professor; M.F.A., Purdue University, chair

**Mark Sauter**; Assistant Teaching Professor; M.F.A., University of Wisconsin - Madison

## Art History

Art history classes in the Art & Design Unit are designed to provide a conceptual and philosophical context to artmaking by investigating the stylistic characteristics of specific artists, time periods or cultures and understanding the dynamic relationship between art and society.

Our art history curriculum emphasizes an understanding of the arts through a global perspective and explores many world cultures and artistic traditions. With an art history minor, you will

- Critically engage with the visual arts using a variety of tools including careful visual analysis, scholarly research, and theoretical lenses
- Understand the complexity and diversity of global artistic traditions and their historical contexts and gain insight into your own preconceptions of the world
- acquire the tools and vocabulary needed for interpreting visual culture and for decoding and analyzing the visual world around you

## Minor

Code	Title	Credits
<b>Supporting Courses:</b>		<b>15</b>
<b>Required:</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	
ART 103	History of the Visual Arts II: Renaissance to Modern	
ART 202	Modern Art	
<b>Electives (choose 2 courses):</b>		
ART 203	Contemporary Art	
ART 281	Art of the First Nations	
ART 282	Black Art in America	
ART 284	Queer Art & Cultures	
<b>Upper-Level Courses</b>		<b>6</b>
<b>Electives (choose 2 courses):</b>		
ART 376	Modern American Culture	
ART 379	Women, Art and Image	
ART 380	History of Photography	
ART 382	Precolumbian Art of Mesoamerica	
ART 383	African Art	
ART 384	Asian Art	
<b>Total Credits</b>		<b>21</b>

## Faculty

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

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

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

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

**Lisa Wicka**; Associate Professor; M.F.A., Purdue University, chair

**Mark Sauter**; Assistant Teaching Professor; M.F.A., University of Wisconsin - Madison

## Arts Management

(minor only)

The Arts Management 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 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 .

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 <https://www.uwgb.edu/international-education/>.

## Minor: Emphasis in General

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ARTS MGT 256	Understanding the Arts	
ARTS MGT 257	Arts in the Community	
<b>Choose 3 credits:</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	
ART 103	History of the Visual Arts II: Renaissance to Modern	
ART 202	Modern Art	
MUSIC 121	Survey of Western Music	
MUSIC 272	Women in the Performing Arts	
THEATRE 110	Introduction to Theatre Arts	
<b>Upper-Level Courses</b>		<b>12</b>
ARTS MGT 354	Managing Arts and Cultural Organizations	
ARTS MGT 355	Funding and Financial Issues in the Arts	
ARTS MGT 356	Promoting the Arts	
<b>Choose 3 credits:</b>		
ARTS MGT 455	Practicum in Arts Management	
ARTS MGT 497	Internship (minimum 3.0 GPA required for internship placement)	
ENGLISH 324	Sheepshead Review Practicum	
PUB ADM 315	Public and Non-Profit Management	
PUB ADM 344	Leadership in Organizations	
PUB ADM 428	Public and Nonprofit Program Evaluation	
<b>Total Credits</b>		<b>21</b>

## Minor: Emphasis in Gallery and Museum Practices

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ARTS MGT 256	Understanding the Arts	
ARTS MGT 257	Arts in the Community	
<b>Choose 3 credits:</b>		
ART 103	History of the Visual Arts II: Renaissance to Modern	
ART 106	Three Dimensional Design	
ART 202	Modern Art	
COMM 133	Fundamentals of Public Address	
DESIGN 131	Introduction to Design and Culture	
<b>Upper-Level Courses</b>		<b>15</b>
ARTS MGT 354	Managing Arts and Cultural Organizations	
ARTS MGT 355	Funding and Financial Issues in the Arts	
ARTS MGT 356	Promoting the Arts	
ARTS MGT 357	Gallery & Museum Studies	
<b>Choose 3 credits:</b>		
ARTS MGT 455	Practicum in Arts Management	
ARTS MGT 497	Internship	
<b>Total Credits</b>		<b>24</b>

## Arts Management and Entrepreneurship

The Arts Management and Entrepreneurship minor is an 18-credit program comprising a mix of required and elective courses. The curriculum is designed to provide foundational knowledge in entrepreneurship and arts management while offering flexibility for students to tailor the minor to their interests. This minor is intentionally interdisciplinary, drawing from the fields of business, public administration, communication, and the arts to ensure students develop both practical skills and a broad understanding of the creative industries. By integrating theoretical learning with applied experiences,

such as community engagement and project-based coursework, the program prepares students to innovate and lead in the evolving landscape of arts and cultural management.

#### Learning Outcomes:

Upon completing the minor, students will be able to:

1. Develop Entrepreneurial Competence: Understand core principles of entrepreneurship and apply them to arts and cultural contexts.
2. Navigate Arts and Cultural Organizations: Gain skills in managing and leading arts organizations, including financial management, community engagement, and marketing.
3. Create and Promote Arts-Based Initiatives: Design and execute strategies to promote arts initiatives through innovative approaches.
4. Foster Community Impact: Employ arts as a tool for civic engagement and community enrichment.
5. Integrate Interdisciplinary Knowledge: Combine insights from business, public administration, and arts management to address challenges in the creative industries.

## Minor

Code	Title	Credits
<b>Required:</b>		<b>9</b>
ARTS MGT 255	Professional Perspectives in the Arts	
ENTRP 272	Introduction to Entrepreneurship	
ARTS MGT 257	Arts in the Community	
<b>Electives (choose 3 courses):</b>		<b>9</b>
ARTS MGT 354	Managing Arts and Cultural Organizations	
ARTS MGT 355	Funding and Financial Issues in the Arts	
COMM 317	How to Create Great Social Media Content	
ENTRP 492	Social Entrepreneurship	
PUB ADM 315	Public and Non-Profit Management	
PUB ADM 425	Marketing, Fund Development, and Grant Writing for Nonprofits	
<b>Total Credits</b>		<b>18</b>

## Faculty

## 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 Biology major and minor complement numerous other UW-Green Bay 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 technology, 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

## Major Area of Emphasis (p. 73)

Students must complete requirements in one of the following areas of emphasis: (p. 73)

- Animal Biology (p. 73)\*
- Aquatic Ecology and Fisheries Emphasis (p. 73)
- Cell/Molecular (p. 73)
- Ecology and Conservation (p. 73)\*
- Microbiology (p. 73)
- Pre-Veterinary (p. 73)

\* includes an accelerated option - Integrated with graduate Environmental Science and Policy Program

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>18</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	

CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
<b>Upper-Level Courses</b>	
BIOLOGY 303	Genetics
BIOLOGY 306	Principles of Ecology
BIOLOGY 309	Evolutionary Biology
<b>Cell or Microbiology (Choose one option):</b>	
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
HUM BIOL 323 & HUM BIOL 326	Medical Microbiology and Medical Microbiology Lab
<b>Choose one of the following courses:</b>	
BIOLOGY 311	Plant Physiology
BIOLOGY 346	Comparative Physiology
<b>Total Credits</b>	

17-18

35-36

## Curriculum Guides (p. 79)

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. (p. 79)

- Biology Major with Emphasis in Animal Biology Curriculum Guide Example (p. 79)
- Biology Major with Emphasis in Aquatic Ecology and Fisheries Curriculum Guide Example (p. 79)
- Biology Major with Emphasis in Cell/Molecular Biology Curriculum Guide Example (p. 79)
- Biology Major with Emphasis in Ecology & Conservation Biology Curriculum Guide Example (p. 79)
- Biology Major with Emphasis in Microbiology Curriculum Guide Example (p. 79)
- Biology Major with Emphasis in Pre-Vet Curriculum Guide Example (p. 79)

## Faculty

**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\*

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

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

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

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

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

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

**Karen Stahlheber**; Associate Professor; Ph.D., University of California - Santa Barbara, chair\*

**Paolo Segre**; Assistant Professor; Ph.D., University of British Columbia\*

**Keir Wefferling**; Assistant Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Christopher Houghton**; Assistant Teaching Professor; Ph.D., University of Wisconsin - Milwaukee



# Biology Major

## Area of Emphasis

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

- Animal Biology\*
- Aquatic Ecology and Fisheries Emphasis
- Cell/Molecular
- Ecology and Conservation\*
- Microbiology
- Pre-Veterinary

\* includes an accelerated option - Integrated with graduate Environmental Science and Policy Program

## Animal Biology

Code	Title	Credits
<b>Supporting Courses</b>		<b>29-30</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms 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 104	Precalculus	
MATH 260	Introductory Statistics	
<b>Mathematics (choose one course):</b>		
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	
ENV SCI 336	Environmental Statistics	
MATH 202	Calculus and Analytic Geometry I	
<b>Upper-Level Courses <sup>1</sup></b>		<b>30-33</b>
<b>Required courses</b>		
BIOLOGY 303	Genetics	
BIOLOGY 306	Principles of Ecology	
BIOLOGY 309	Evolutionary Biology	
BIOLOGY 311/511 or BIOLOGY 346	Plant Physiology <sup>#</sup> Comparative Physiology	
<b>Cell or Microbiology (choose one):</b>		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory	
BIOLOGY 322/522	Environmental Microbiology <sup>#</sup>	
HUM BIOL 323 & HUM BIOL 326	Medical Microbiology and Medical Microbiology Lab	
<b>Choose 12-14 credits from the following courses:</b>		
BIOLOGY 304	Genetics Laboratory	
BIOLOGY 310/510	Plant Biodiversity <sup>#</sup>	
BIOLOGY 320/520	Field Botany <sup>#</sup>	
BIOLOGY 322/522	Environmental Microbiology <sup>#</sup>	
BIOLOGY 340	Comparative Anatomy of Vertebrates	
BIOLOGY 341/541	Fish Biology and Ecology <sup>#</sup>	

BIOLOGY 342/542	Ornithology <sup>#</sup>
BIOLOGY 343/543	Mammalogy <sup>#</sup>
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 355/555	Entomology <sup>#</sup>
BIOLOGY 357/557	Marine Biology <sup>#</sup>
BIOLOGY 365/565	Aquatic Invertebrates <sup>#</sup>
BIOLOGY 401/601	Fish and Wildlife Population Dynamics <sup>#</sup>
BIOLOGY 449	Wetland Ecology
BIOLOGY 450	Ecological Restoration
ENV SCI 337/537	Environmental GIS <sup>#</sup>
ENV SCI 401/601	Stream Ecology <sup>#</sup>
ENV SCI 403	Limnology
HUM BIOL 402	Human Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 444	Endocrinology
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar

**Total Credits****59-63**

\* includes an Accelerated option - Integrated with graduate Environmental Science and Policy program

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

<sup>1</sup> Research experience and/or Internships are highly recommended. Credits from research and internships may be counted toward upper-level electives.

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

## Aquatic Ecology and Fisheries

Code	Title	Credits
<b>Supporting Courses</b>		<b>29-30</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	
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 104	Precalculus	
MATH 260	Introductory Statistics	
<b>Mathematics (choose one course):</b>		
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	
ENV SCI 336	Environmental Statistics	
MATH 202	Calculus and Analytic Geometry I	
<b>Upper Level Courses <sup>1</sup></b>		<b>36</b>
<b>Required Courses</b>		
BIOLOGY 303	Genetics	
BIOLOGY 306	Principles of Ecology	

BIOLOGY 309	Evolutionary Biology
BIOLOGY 322	Environmental Microbiology
BIOLOGY 346	Comparative Physiology
BIOLOGY 449	Wetland Ecology
<b>Choose one of the following courses:</b>	
BIOLOGY 341	Fish Biology and Ecology
BIOLOGY 360	Early Life History of Fish
BIOLOGY 365	Aquatic Invertebrates
<b>Choose two of the following courses:</b>	
BIOLOGY 449	Wetland Ecology
ENV SCI 401	Stream Ecology
ENV SCI 403	Limnology
<b>Choose one of the following courses:</b>	
BIOLOGY 370	Restoration and Management of Aquatic Ecosystems
BIOLOGY 401	Fish and Wildlife Population Dynamics
ENV SCI 337	Environmental GIS
<b>Seminar</b>	
BIOLOGY 490	Biology Seminar
<b>Total Credits</b>	

1

66-67

- <sup>1</sup> Research experience and/or Internships are highly recommended. Credits from research and internships may be counted toward upper-level electives.
- Students planning to continue on to graduate school or a professional program are recommended to take calculus, physics and organic chemistry.

## Cell/Molecular

Code	Title	Credits
<b>Supporting Courses</b>		<b>29-30</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms 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 104	Precalculus	
MATH 260	Introductory Statistics	
<b>Mathematics (choose one course):</b>		
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	
ENV SCI 336	Environmental Statistics	
MATH 202	Calculus and Analytic Geometry I	
<b>Upper-Level Courses <sup>1</sup></b>		<b>34-35</b>
<b>Required courses</b>		
BIOLOGY 303	Genetics	
BIOLOGY 306	Principles of Ecology	
BIOLOGY 307	Cell Biology	
BIOLOGY 308	Cell Biology Laboratory	
BIOLOGY 309	Evolutionary Biology	
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology	
BIOLOGY 407	Molecular Biology	
<b>Microbiology (Choose one)</b>		

BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
HUM BIOL 323 & HUM BIOL 326	Medical Microbiology and Medical Microbiology Lab
<b>Minimum of 4 credits of the following courses:</b>	
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
<b>Choose a minimum of 5 credits from the following courses:</b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 312	Mycology
BIOLOGY 322	Environmental Microbiology
BIOLOGY 402	Advanced Microbiology
BIOLOGY 408	Molecular Biology Laboratory
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 444	Endocrinology
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar
<b>Total Credits</b>	

63-65

- <sup>1</sup> Research experience and/or Internships are highly recommended. Credits from research and internships may be counted toward upper-level electives.  
Students planning to continue on to graduate school or a professional program are recommended to take calculus, physics and organic chemistry.

## Ecology and Conservation

Code	Title	Credits
<b>Supporting Courses</b>		<b>29-30</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms 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 104	Precalculus	
MATH 260	Introductory Statistics	
<b>Mathematics (choose one course):</b>		
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	
ENV SCI 336	Environmental Statistics	
MATH 202	Calculus and Analytic Geometry I	
<b>Upper-Level Courses <sup>1</sup></b>		<b>30-31</b>
<b>Required Courses</b>		
BIOLOGY 303	Genetics	
BIOLOGY 306	Principles of Ecology	
BIOLOGY 309	Evolutionary Biology	
BIOLOGY 469	Conservation Biology	
<b>Cell or Microbiology (choose one):</b>		

BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory
BIOLOGY 322	Environmental Microbiology
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
HUM BIOL 323 & HUM BIOL 326	Medical Microbiology and Medical Microbiology Lab
<b>Physiology Course (choose one):</b>	
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology
<b>Choose a minimum of 8 credits from the following courses:</b>	
BIOLOGY 310/510	Plant Biodiversity <sup>#</sup>
BIOLOGY 311/511	Plant Physiology <sup>#</sup>
BIOLOGY 312/512	Mycology <sup>#</sup>
BIOLOGY 320/520	Field Botany <sup>#</sup>
BIOLOGY 322/522	Environmental Microbiology <sup>#</sup>
BIOLOGY 342/542	Ornithology <sup>#</sup>
BIOLOGY 343/543	Mammalogy <sup>#</sup>
BIOLOGY 355/555	Entomology <sup>#</sup>
BIOLOGY 357/557	Marine Biology <sup>#</sup>
BIOLOGY 365/565	Aquatic Invertebrates <sup>#</sup>
BIOLOGY 401/601	Fish and Wildlife Population Dynamics <sup>#</sup>
BIOLOGY 449/649	Wetland Ecology <sup>#</sup>
BIOLOGY 450/650	Ecological Restoration <sup>#</sup>
ENV SCI 337/537	Environmental GIS <sup>#</sup>
ENV SCI 401/601	Stream Ecology <sup>#</sup>
ENV SCI 403/603	Limnology <sup>#</sup>
ENV SCI 467	Research Experience in Environmental Science
ENV SCI 499	Travel Course
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar

**Total Credits****59-61**

\* includes an Accelerated option - Integrated with graduate Environmental Science and Policy program

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

<sup>1</sup> Research experience and/or Internships are highly recommended. Credits from research and internships may be counted toward upper-level electives.  
Students planning to continue on to graduate school or a professional program are recommended to take calculus, physics and organic chemistry.

**Microbiology**

Code	Title	Credits
<b>Supporting Courses</b>		<b>29-30</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms 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 104	Precalculus	
MATH 260	Introductory Statistics	

<b>Mathematics (choose one course):</b>	
ENV SCI 250	Introduction to Geographic Information Systems (GIS)
ENV SCI 336	Environmental Statistics
MATH 202	Calculus and Analytic Geometry I
<b>Upper-Level Courses <sup>1</sup></b>	<b>38-39</b>
<b>Required courses</b>	
BIOLOGY 303	Genetics
BIOLOGY 306	Principles of Ecology
BIOLOGY 309	Evolutionary Biology
BIOLOGY 402	Advanced Microbiology
BIOLOGY 311	Plant Physiology
or BIOLOGY 346	Comparative Physiology
<b>Microbiology (Choose one)</b>	
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
BIOLOGY 322	Environmental Microbiology
HUM BIOL 323 & HUM BIOL 326	Medical Microbiology and Medical Microbiology Lab
<b>Chemistry (minimum of 8 credits of the following courses):</b>	
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory
<b>Electives (choose 8 or more credits from the following courses):</b>	
BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 312	Mycology
BIOLOGY 322	Environmental Microbiology
BIOLOGY 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 497	Internship
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
<b>Seminar (1 credit required):</b>	
BIOLOGY 490	Biology Seminar
<b>Total Credits</b>	<b>67-69</b>

<sup>1</sup> Research experience and/or Internships are highly recommended. Credits from research and internships may be counted toward upper-level electives.  
Students planning to continue on to graduate school or a professional program are recommended to take calculus, physics and organic chemistry.

## Pre-Veterinary

Code	Title	Credits
<b>Supporting Courses</b>		<b>36</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms 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 104	Precalculus
MATH 260	Introductory Statistics
<b>Physics Lecture (choose one of the following options):</b>	
PHYSICS 103 & PHYSICS 104	Fundamentals of Physics I and Fundamentals of Physics II
PHYSICS 201 & PHYSICS 202	Principles of Physics I and Principles of Physics II
<b>Physics Labs</b>	
PHYSICS 203 & PHYSICS 204	Introductory Physics Lab I and Introductory Physics Lab II
<b>Upper-Level Courses</b>	
<b>36</b>	
BIOLOGY 303	Genetics
BIOLOGY 306	Principles of Ecology
BIOLOGY 309	Evolutionary Biology
BIOLOGY 346	Comparative Physiology
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II
CHEM 330	Biochemistry
<b>Cell Biology (choose one of the following options):</b>	
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
HUM BIOL 323 & HUM BIOL 326	Medical Microbiology and Medical Microbiology Lab
<b>Choose a minimum of 8 credits from the following courses:</b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 342	Ornithology
BIOLOGY 343	Mammalogy
BIOLOGY 345	Animal Behavior
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
<b>Seminar, 1 credit required</b>	
<b>1</b>	
BIOLOGY 490	Biology Seminar

**Total Credits****73**

## 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
- Biology Major with Emphasis in Aquatic Ecology and Fisheries Curriculum Guide Example
- Biology Major with Emphasis in Biology for Educators Curriculum Guide Example
- Biology Major with Emphasis in Cell/Molecular Biology Curriculum Guide Example
- Biology Major with Emphasis in Ecology & Conservation Biology Curriculum Guide Example
- Biology Major with Emphasis in Microbiology Curriculum Guide Example
- Biology Major with Emphasis in Pre-Vet Curriculum Guide Example

## 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.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
MATH 104 or General Ed		
<b>Credits</b>		<b>13</b>
<b>Spring</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 260	Introductory Statistics	4
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory (or Biology 302)	4
WF 105	Research and Rhetoric	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 303	Genetics	3
BIOLOGY 309	Evolutionary Biology	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 306	Principles of Ecology	4
Biology Elective		3-4
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>16-17</b>
<b>Spring</b>		
BIOLOGY 346	Comparative Physiology (Or BIOLOGY 311 in Fall)	3
Biology Elective		3-4
Biology Elective		3-4
General Ed		3
Elective		3
<b>Credits</b>		<b>15-17</b>
<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (Fall or Spring)	1
BIOLOGY 498 or BIOLOGY 497	Independent Study (Recommended) or Internship	1-4
Biology Elective		3-4
General Ed		3



Elective	3
Elective	3
<b>Credits</b>	<b>14-18</b>
<b>Spring</b>	
Biology Elective	3-4
Elective	3
Elective	3
Elective	3
Elective	3
<b>Credits</b>	<b>15-16</b>
<b>Total Credits</b>	<b>120-128</b>

## Biology Major with Emphasis in Aquatic Ecology & Fisheries

An example: Four year plan for **Biology Major with Emphasis in Aquatic Ecology & Fisheries**

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 212	Principles of Chemistry II	4
CHEM 213	Principles of Chemistry I Laboratory	1
MATH 260	Introductory Statistics	4
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 303	Genetics	3
MATH 104 or MATH 202	Precalculus or Calculus and Analytic Geometry I	4
WF 105 or INFO SCI 390	Research and Rhetoric or Technical Writing	3
General Ed		3
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 360	Early Life History of Fish	4
BIOLOGY 469	Conservation Biology	4
ENV SCI 403 or ENV SCI 401	Limnology or Stream Ecology	4
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
BIOLOGY 341	Fish Biology and Ecology	4
BIOLOGY 322	Environmental Microbiology	4
BIOLOGY 346	Comparative Physiology	3
BIOLOGY 370	Restoration and Management of Aquatic Ecosystems	3
General Ed		3
<b>Credits</b>		<b>17</b>

<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar	1
ENV SCI 467	Research Experience in Environmental Science	4
Major Elective		3-4
Major Elective		3-4
General Ed		3
<b>Credits</b>		<b>14-16</b>
<b>Spring</b>		
BIOLOGY 401	Fish and Wildlife Population Dynamics	4
BIOLOGY 449	Wetland Ecology	3
Major Elective		3-4
Major Elective		3-4
<b>Credits</b>		<b>13-15</b>
<b>Total Credits</b>		<b>107-111</b>

## Biology Major with Emphasis in Cell/Molecular

An example: Four year plan for **Biology Major with Emphasis in Cell/Molecular**  
120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
MATH 104 or General Ed		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 260	Introductory Statistics	4
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory	4
WF 105	Research and Rhetoric	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 303	Genetics	3
BIOLOGY 309	Evolutionary Biology	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 306	Principles of Ecology	4
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	4

CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I (or CHEM 300 in Spring)	4
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
BIOLOGY 346	Comparative Physiology (Or BIOLOGY 311 in Fall)	3
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory (or Organic I in Fall)	4
BIOLOGY 407	Molecular Biology	3
General Ed		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
Biology Elective		3-4
General Ed		3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>16-17</b>
<b>Spring</b>		
Biology Elective		3-4
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>12-13</b>
<b>Total Credits</b>		<b>122-124</b>

## Biology Major with Emphasis in Ecology & Conservation

An example: Four year plan for **Biology Major with Emphasis in Ecology and Conservation Biology**  
120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
MATH 104 or General Ed		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
MATH 260	Introductory Statistics	4
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 323 & BIOLOGY 324 or BIOLOGY 307 or BIOLOGY 322	Principles of Microbiology or Cell Biology or Environmental Microbiology	4
WF 105	Research and Rhetoric	3
MATH 202 or General Ed		3
General Ed		3

General Ed		3
	<b>Credits</b>	<b>16</b>
<b>Spring</b>		
BIOLOGY 303	Genetics	3
BIOLOGY 306	Principles of Ecology	4
BIOLOGY 322 or BIOLOGY 323 or BIOLOGY 307	Environmental Microbiology or Principles of Microbiology or Cell Biology	4
General Ed		3
General Ed		3
	<b>Credits</b>	<b>17</b>
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 307 & BIOLOGY 308 or BIOLOGY 322 or BIOLOGY 323	Cell Biology or Environmental Microbiology or Principles of Microbiology	4
BIOLOGY 309	Evolutionary Biology	3
BIOLOGY 311	Plant Physiology (or BIOLOGY 346 in spring)	4
General Ed		3
Elective		
	<b>Credits</b>	<b>14</b>
<b>Spring</b>		
BIOLOGY 346	Comparative Physiology (Or BIOLOGY 311 in Fall)	3
Biology Elective		3-4
Biology Elective		3-4
General Ed		3
Elective		3
	<b>Credits</b>	<b>15-17</b>
<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
BIOLOGY 498 or BIOLOGY 497	Independent Study (Recommended) or Internship	2-3
Biology Elective		3-4
General Ed		3
Elective		3
Elective		3
	<b>Credits</b>	<b>15-17</b>
<b>Spring</b>		
Biology Elective		3-4
Elective		3
Elective		3
Elective		3
	<b>Credits</b>	<b>12-13</b>
	<b>Total Credits</b>	<b>121-126</b>

## 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.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3

General Ed		3
	<b>Credits</b>	<b>16</b>
<b>Spring</b>		
BIOLOGY 201 & BIOLOGY 204	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Organisms and Evolution	4
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 260	Introductory Statistics	4
General Ed		3
	<b>Credits</b>	<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory (or Biology 302)	4
MATH 202	Calculus and Analytic Geometry I	4
WF 105	Research and Rhetoric	3
General Ed		3
General Ed		3
	<b>Credits</b>	<b>17</b>
<b>Spring</b>		
BIOLOGY 303	Genetics	3
BIOLOGY 309	Evolutionary Biology	3
General Ed		3
General Ed		3
Elective		3
	<b>Credits</b>	<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 306	Principles of Ecology	4
Biology Elective		3-4
Biology Elective		3-4
General Ed		3
Elective		3
	<b>Credits</b>	<b>16-18</b>
<b>Spring</b>		
BIOLOGY 346 or BIOLOGY 311	Comparative Physiology or Plant Physiology	3-4
Biology Elective		3-4
Biology Elective		3-4
General Ed		3
Elective		3
	<b>Credits</b>	<b>15-18</b>
<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
General Ed		3
General Ed		3
Elective		3
Elective		3
Elective		3
	<b>Credits</b>	<b>16</b>
<b>Spring</b>		
Elective		3
Elective		3
Elective		3
Elective		3
	<b>Credits</b>	<b>12</b>
	<b>Total Credits</b>	<b>123-128</b>

## Biology Major with Emphasis in Microbiology

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

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed (or Math 104)		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 260	Introductory Statistics	4
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 323 & BIOLOGY 324 or BIOLOGY 322	Principles of Microbiology or Environmental Microbiology	4
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	4
WF 105	Research and Rhetoric	3
General Ed (or Math 202)		3
General Ed		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
BIOLOGY 303	Genetics	3
BIOLOGY 309	Evolutionary Biology	3
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	4
General Ed		3
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 311	Plant Physiology (or BIOLOGY 346 in Spring, or Biology elective)	4
BIOLOGY 402	Advanced Microbiology	4
General Ed		3
Elective		3-4
Elective		3-4
<b>Credits</b>		<b>17-19</b>
<b>Spring</b>		
BIOLOGY 306	Principles of Ecology	4
Biology Elective		3-4
General Ed		3
Elective		3-4
Elective		3-4
<b>Credits</b>		<b>16-19</b>
<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (Fall or Spring)	1
BIOLOGY 498 or BIOLOGY 497	Independent Study (recommended) or Internship	1-4
General Ed		3
Biology Elective		3-4

Elective	3-4
Elective	3-4
<b>Credits</b>	<b>14-20</b>
<b>Spring</b>	
Biology Elective	3-4
Elective	3-4
Elective	3-4
Elective	3-4
<b>Credits</b>	<b>12-16</b>
<b>Total Credits</b>	<b>124-139</b>

## Biology major with Emphasis in Pre-Veterinary

An example: Four year plan for **Biology Major with Emphasis in Pre-Veterinary**  
120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed (or Math 104)		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 260	Introductory Statistics	4
General Ed (or Physics)		3
<b>Credits</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 303	Genetics	3
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	4
WF 105	Research and Rhetoric	3
General Ed (or Physics)		3
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	4
BIOLOGY 309	Evolutionary Biology	3
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	4
General Ed (or Physics)		3
General Ed		3
<b>Credits</b>		<b>17</b>
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 306	Principles of Ecology	4
CHEM 330	Biochemistry	3
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	4
General Ed		3
Elective		3-4
<b>Credits</b>		<b>17-18</b>

<b>Spring</b>		
BIOLOGY 346	Comparative Physiology	3
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II or Principles of Physics II	4
Biology Elective		3-4
General Ed		3
Elective		3-4
<b>Credits</b>		<b>16-18</b>
<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (Fall or Spring)	1
BIOLOGY 498 or BIOLOGY 497	Independent Study (recommended) or Internship	1-4
Biology Elective		3-4
General Ed		3
Elective		3-4
Elective		3-4
<b>Credits</b>		<b>14-20</b>
<b>Spring</b>		
Biology Elective		3-4
Elective		3-4
Elective		3-4
Elective		3-4
<b>Credits</b>		<b>12-16</b>
<b>Total Credits</b>		<b>124-137</b>

## 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 Analytics
- Entrepreneurship
- General Business
- 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 add a Business Administration major or minor at any time with any number of credits through a simple process. Students should contact their Professional Advisor listed under the Program Advisors on the right-hand side of SIS to start the process. Students will be required to read and



accept an Honor Code (pre-declaration form). For students adding a major offered in the Cofrin School of Business, a faculty mentor who specializes in their program will be listed under their Program Advisors in SIS.

Students must maintain a cumulative GPA of 2.5 to proceed in the course progression for a Business Administration major.

## Major Area of Emphasis (p. 90)

Students must complete requirements in one of the following areas of emphasis: (p. 90)

- Business Analytics (p. 90)
- Entrepreneurship (p. 90)
- General Business (p. 90)
- Supply Chain Management (p. 90)\*

### Overview of Program Emphases

#### Business Analytics:

Learn to translate data for business decisions. The Business Analytics emphasis prepares students to interpret and analyze complex data into comprehensive insights for making actionable decisions. Students will be able to answer questions regarding what happened, what will happen, and what needs to be done. (p. 90)

#### Entrepreneurship:

Entrepreneurship skills are highly sought and marketable. Entrepreneurially minded graduates keep organizations viable through innovation. Entrepreneurship courses develop students' skills in problem solving, resourcefulness, independence, and critical thinking. The Entrepreneurship emphasis provides students with in-depth knowledge in the Entrepreneurship domain through a rigorous curriculum with courses covering important topics including how to capture new markets and create new businesses that operate virtually, about online peer networks, e-business models and pitch experience and venture acceleration. (p. 90)

#### General Business:

The General Business emphasis is designed for working professionals seeking to advance their professional careers. The emphasis provides students with the opportunity to tailor the major by selecting specific coursework benefitting their career or aligning with their interests. Students can select to pursue one of the three certificate tracks (Digital Marketing & Sales, Entrepreneurship, or Supply Chain Management) or pursue the broad selection of courses to complete the general track. Entry into the program requires the transfer of a minimum of 40 credits from an accredited university, and at least 3 years of full-time equivalent relevant, professional experience to be evaluated through submitted evidentiary material. Admitted students can earn an additional six credits toward their general major requirements (Capstone experience excluded) through credit for prior learning. Evaluation of credit for prior learning follows accepted university practices.

#### Supply Chain Management\* :

Supply chain management is one of the most important career choices in the world. Everything we purchase gets to store shelves via a supply chain. Students will learn how supply chain management integrates supply and demand management within and across companies. The program closely studies the supply of materials to a manufacturer, along with the production and the distribution of finished goods through a network of distributors and retailers to a final customer. Careers in supply chain management are on the rise and continually increasing year after year with an excellent job outlook. (p. 90)

\* includes an accelerated option - Integrated with graduate Supply Chain Management program

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>15-16</b>
ACCTG 201	Principles of Financial Accounting	
BUS ADM 202	Introduction to Business	
or FIN 282	Personal Financial Planning	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Choose one of the following courses:</b>		

BUSAN 220	Introduction to Business Statistics
MATH 260	Introductory Statistics
PSYCH 205	Social Science Statistics
<b>Upper-Level Courses</b>	
BUS ADM 305	Legal Environment of Business
FIN 343	Corporation Finance
MGMT 389	Organizational Behavior
MKTG 322	Principles of Marketing
<b>Total Credits</b>	

12

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## Faculty

**Bardia Batala**; Assistant Professor; Ph.D., Oklahoma State University

**Ray Parth**; Assistant Professor; Ph.D., DePaul University\*

**Hyeonsik Shin**; Assistant Professor; Ph.D., Fox School of Business, Temple University\*

**Nischal Thapa**; Assistant Professor; Ph.D., University of Missouri - Kansas City\*

**Matthew Geimer**; Associate Teaching Professor; J.D., University of Wisconsin - Madison, chair

**Praneet Tiwari**; Associate Teaching Professor; M.S., University of North Texas\*

**Paul Werner**; Assistant Teaching Professor; M.B.A., University of Minnesota

## Business Administration Major

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

- Business Analytics
- Entrepreneurship
- General Business
- Supply Chain Management\*

### Overview of Program Emphases

#### Business Analytics:

Learn to translate data for business decisions. The Business Analytics major prepares students to interpret and analyze complex data into comprehensive insights for making actionable decisions. Students will be able to answer questions regarding what happened, what will happen, and what needs to be done.

#### Entrepreneurship:

Entrepreneurship skills are highly sought and marketable. Entrepreneurially minded graduates keep organizations viable through innovation. Entrepreneurship courses develop students' skills in problem solving, resourcefulness, independence, and critical thinking. The Entrepreneurship Emphasis provides students with in-depth knowledge in the Entrepreneurship domain through a rigorous curriculum with courses covering important topics including how to capture new markets and create new businesses that operate virtually, about online peer networks, e-business models and pitch experience and venture acceleration.

#### General Business:

The General Business emphasis is designed for working professionals seeking to advance their professional careers. The emphasis provides students with the opportunity to tailor the major by selecting specific coursework benefitting their career or aligning with their interests. Students can select to pursue one of the three certificate tracks (Digital Marketing & Sales, Entrepreneurship, or Supply Chain Management) or pursue the broad selection of courses to complete the general track. Entry into the program requires the transfer of a minimum of 40 credits from an accredited university, and at least 3 years of full-time equivalent relevant, professional experience to be evaluated through submitted evidentiary material. Admitted students can earn an additional six credits toward their general major requirements (Capstone experience excluded) through credit for prior learning. Evaluation of credit for prior learning follows accepted university practices.

#### Supply Chain Management :

Supply chain management is one of the most important career choices in the world. Everything we purchase gets to store shelves via a supply chain. Students will learn how supply chain management integrates supply and demand management within and across companies. The program closely studies the supply of materials to a manufacturer, along with the production and the distribution of finished goods through a network of distributors and retailers to a final customer. Careers in supply chain management are on the rise and continually increasing year after year with an excellent job outlook.

\* includes an Accelerated option - Integrated with graduate Supply Chain Management program

## Business Analytics

Code	Title	Credits
<b>Foundational Courses</b>		<b>36-37</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
HRM 262	Introduction to Human Resource Management	
ENTRP 272	Introduction to Entrepreneurship	
PHILOS 227	Business Ethics	
SCM 200	Principles of Supply Chain Management	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics (choose one)</b>		
BUSAN 220 or MATH 260	Introduction to Business Statistics Introductory Statistics	
<b>Upper-Level Foundational Courses</b>		<b>15</b>
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Principles of Marketing	
SCM 380	Project Management	
<b>Business Analytics Emphasis Required Courses</b>		<b>18</b>
BUSAN 320	Advanced Business Statistics	
BUSAN 435	Foundations of Strategic Information Management	
BUSAN 450	Database for Business Analytics	
BUSAN 452	Business Analytics	
BUSAN 453	Machine Learning for Business Analytics	
BUSAN 464	Data Visualization and Storytelling	
<b>Capstone Experience</b>		<b>3</b>
MGMT 482	Capstone in Business Strategy	
<b>Total Credits</b>		<b>72-73</b>

## Entrepreneurship

Code	Title	Credits
<b>Lower-level Courses</b>		<b>36-37</b>
<b>Foundational Courses</b>		
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	

BUSAN 230	Spreadsheet and Information Systems
ENTRP 272	Introduction to Entrepreneurship
HRM 262	Introduction to Human Resource Management
PHILOS 227	Business Ethics
SCM 200	Principles of Supply Chain Management
<b>Economics (choose one combination):</b>	
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit
<b>Statistics (choose one)</b>	
BUSAN 220	Introduction to Business Statistics
MATH 260	Introductory Statistics
<b>Upper-Level Courses</b>	
<b>Foundational Courses</b>	
BUS ADM 305	Legal Environment of Business
FIN 343	Corporation Finance
MGMT 389	Organizational Behavior
MKTG 322	Principles of Marketing
SCM 380	Project Management
<b>Entrepreneurship Emphasis Required Courses</b>	
ENTRP 373	Entrepreneurial Finance
ENTRP 481	Small Business Management & Family Entrepreneurship
ENTRP 486	Design Thinking and Developing Business Models
ENTRP 488	Minimum Viable Product and New Product Development
ENTRP 491	Advanced Entrepreneurial Marketing
ENTRP 492	Social Entrepreneurship
<b>Capstone Experience</b>	
MGMT 482	Capstone in Business Strategy
<b>Total Credits</b>	

15

18

3

72-73

## General Business

Code	Title	Credits
<b>Lower-Level Courses</b>		<b>27</b>
<b>Foundational Courses</b>		
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUSAN 220	Introduction to Business Statistics	
ENTRP 272	Introduction to Entrepreneurship	
PHILOS 227	Business Ethics	
<b>Economics (choose one):</b>		
ECON 202 or ECON 203 or ECON 209	Macro Economic Analysis Micro Economic Analysis WTCS Transfer Credit	
<b>Foundational Elective Courses (pick three)</b>		
BUS ADM 201	Principles of Sustainability in Business	
BUSAN 230	Spreadsheet and Information Systems	
HRM 262	Introduction to Human Resource Management	
SCM 200	Principles of Supply Chain Management	
<b>Upper-Level Courses</b>		<b>30</b>
<b>Required Foundation Courses</b>		
BUS ADM 305	Legal Environment of Business	

FIN 343	Corporation Finance
MGMT 389	Organizational Behavior
MKTG 322	Principles of Marketing
<b>General Emphasis (minimum of 18 credits total, see the list below)</b>	
Minimum of 3 credits from ACCTG or FIN courses listed within General Electives	
Minimum of 3 credits from BUS ADM, BUSAN, ENTRP, or SCM courses listed within General Electives	
Minimum of 3 credits from HRM, MGMT, or MKTG courses listed within General Electives	
ACCTG 301	Intermediate Accounting I
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
BUS ADM 306	Business Law
BUSAN 320	Advanced Business Statistics
BUSAN 370	Data Science for Managers
BUSAN 435	Foundations of Strategic Information Management
BUSAN 436	Analysis & Design of Business Information Systems
BUSAN 452	Business Analytics
ECON 330	Money, Banking and Financial Markets
ENTRP 373	Entrepreneurial Finance
ENTRP 481	Small Business Management & Family Entrepreneurship
ENTRP 486	Design Thinking and Developing Business Models
FIN 344	Real Estate Principles
FIN 345	Risk Management and Insurance
FIN 415	Employee Benefits and Retirement Planning
FIN 425	Estate and Trust Planning
FIN 442	Principles of Investment
FIN 445	International Financial Management
FIN 446	Advanced Corporation Finance
FIN 450	Bank Administration and Management
FIN 475	Financial Plan Development
HRM 460	Employee Development and Training
HRM 465	Recruitment and Selection
HRM 466	Employment Law
HRM 467	Compensation and Benefits Planning
HRM 468	Employee Relations
HRM 469	Performance Management and Analytics
MGMT 380	International Business Management
MGMT 452	Teams
MGMT 460	Leading Innovation and Change
MGMT 461	Diversity in Organizations
MGMT 472	Leadership Development
MGMT 479	Organizational Culture & Design
MKTG 327	Selling and Sales Management
MKTG 345	Digital Marketing
MKTG 421	International Marketing
MKTG 423	Advertising
MKTG 424	Research Methods
MKTG 426	Marketing Strategy

MKTG 428	Consumer Behavior
MKTG 447	Social Media Marketing and Analytics
SCM 380	Project Management
SCM 381	Operations Management
SCM 383	Enterprise Resource Planning
SCM 384	Advanced Supply Chain Management
SCM 434	Logistics Management

General Electives note: Internship course (497) cannot be used to satisfy General Business Electives

<b>Capstone Experience</b>	<b>3</b>
MGMT 482	Capstone in Business Strategy

<b>Total Credits</b>	<b>60</b>
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## Supply Chain Management \*

Code	Title	Credits
<b>Lower-Level Courses</b>		<b>36-37</b>
<b>Foundational Courses</b>		
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
ENTRP 272	Introduction to Entrepreneurship	
HRM 262	Introduction to Human Resource Management	
PHILOS 227	Business Ethics	
SCM 200	Principles of Supply Chain Management	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics (choose one):</b>		
BUSAN 220 or MATH 260	Introduction to Business Statistics Introductory Statistics	
<b>Upper-Level Courses</b>		<b>36</b>
<b>Foundational Courses</b>		
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Principles of Marketing	
SCM 380	Project Management	
<b>Supply Chain Management Emphasis Required Courses</b>		
SCM 381	Operations Management	
SCM 383	Enterprise Resource Planning	
SCM 384	Advanced Supply Chain Management	
SCM 434	Logistics Management	
SCM 444/644	Purchasing #	
<b>Supply Chain Management Elective Courses (Choose one from the following courses):</b>		
BUSAN 320	Advanced Business Statistics	
BUSAN 435/635	Foundations of Strategic Information Management #	
BUSAN 452	Business Analytics	
BUSAN 464	Data Visualization and Storytelling	
FIN 446/646	Advanced Corporation Finance #	

SCM 497	Internship
<b>Capstone Experience</b>	
MGMT 482	Capstone in Business Strategy
<b>Total Credits</b>	

**72-73**

\* Includes an Accelerated option - Integrated with the graduate Supply Chain Management program

# Students admitted into the accelerated MS SCM program can take up to 9 credits from among these courses at the graduate level to fulfill their undergraduate program requirements.

## Chemistry

(Bachelor of Science)

Chemistry, Program Level Student Learning Outcomes

1. Demonstrate proficiency in organic, inorganic, analytical, physical, and biochemistry, through a rigorous curriculum aligned with the most recent ACS Guidelines for Chemistry Programs (<https://www.acs.org/education/policies/acs-approval-program.html>).
2. Develop and apply safe laboratory practices and effectively utilize advanced instrumentation for sample collection, analysis, and interpretation of results.
3. Cultivate essential professional skills, including leadership, scientific ethics, effective communication, proficiency in using scientific literature, responsible use of generative AI, teamwork, and adherence to the principles of green chemistry, while following the ACS Chemical Professional's Code of Conduct (<https://www.acs.org/careers/career-services/ethics/the-chemical-professionals-code-of-conduct.html>).

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 five emphases in chemistry. One emphasis is approved by the American Chemical Society and is 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 emphases, general chemistry, environmental chemistry, biochemistry and food chemistry, are 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 Agilent 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; a Nanalysis 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.

## Major Area of Emphasis (p. 97)

Students must complete requirements in one of the following areas of emphasis: (p. 97)

- ACS Certified Chemistry (p. 97)
- Biochemistry (p. 97)
- Environmental Chemistry (p. 97)
- Food Chemistry (p. 97)
- General Chemistry (p. 97)

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>11</b>
CHEM 207	Laboratory Safety	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
<b>Upper-Level Courses</b>		<b>12</b>
CHEM 311	Analytical Chemistry	
<b>Complete one of the following course groups:</b>		
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
<b>Choose 4 credits from the following elective courses:</b>		
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 324 & CHEM 325	Biophysical Chemistry and Biophysical Chemistry Laboratory	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory	
CHEM 413	Instrumental Analysis	
CHEM 420 & CHEM 423	Polymer Chemistry and Polymer Chemistry Laboratory	
NUT SCI 327	Nutritional Biochemistry	
<b>Total Credits</b>		<b>23</b>

## Curriculum Guides (p. 101)

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. (p. 101)

- ACS Certified Chemistry (p. 101)
- Biochemistry (p. 101)
- Environmental Chemistry (p. 101)
- Food Chemistry (p. 101)
- General Chemistry (p. 101)

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## Chemistry Major

### Major Area of Emphasis

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

- ACS Certified Chemistry
- Biochemistry
- Environmental Chemistry
- Food Chemistry
- General Chemistry

### American Chemical Society Certified Chemistry

Code	Title	Credits
<b>Supporting Courses</b>		<b>37</b>
CHEM 207	Laboratory Safety	
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
MATH 202	Calculus and Analytic Geometry I	
MATH 260 or MATH 203	Introductory Statistics Calculus and Analytic Geometry II	
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I Principles of Physics I	
PHYSICS 203	Introductory Physics Lab I	
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II Principles of Physics II	
PHYSICS 204	Introductory Physics Lab II	
<b>Upper-Level Courses</b>		<b>35</b>
<b>Core Courses</b>		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 311	Analytical Chemistry	
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory	
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	

CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory
CHEM 413	Instrumental Analysis
CHEM 496	Project/Research Assistantship (3 credits of Research is required)

**Total Credits****72**

## Biochemistry

Code	Title	Credits
<b>Supporting Courses</b>		<b>33</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
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 260	Introductory Statistics	
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I Principles of Physics I	
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II Principles of Physics II	
PHYSICS 203	Introductory Physics Lab I	
PHYSICS 204	Introductory Physics Lab II	
<b>Upper-Level Courses</b>		<b>27</b>
<b>Core Courses</b>		
BIOLOGY 303	Genetics	
BIOLOGY 407 & BIOLOGY 408	Molecular Biology and Molecular Biology Laboratory	
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 324 & CHEM 325	Biophysical Chemistry and Biophysical Chemistry Laboratory	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	
<b>CHEM Electives: Choose any 4 credits <sup>1</sup></b>		<b>4</b>
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	
CHEM 402 & CHEM 403	Advanced Organic Chemistry and Advanced Organic Chemistry Laboratory	
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory	
CHEM 413	Instrumental Analysis	
CHEM 420 & CHEM 423	Polymer Chemistry and Polymer Chemistry Laboratory	
<b>BIOLOGY or HUMAN BIOLOGY Elective: Choose any 3 credits <sup>2</sup></b>		<b>3</b>
BIOLOGY 307	Cell Biology	
BIOLOGY 323	Principles of Microbiology	
HUM BIOL 426	Cancer Biology	

HUM BIOL 444

Endocrinology

**Total Credits****67**<sup>1</sup> CHEM 495, 496, or 497 are encouraged but not counted toward the major requirements<sup>2</sup> BIOLOGY 495, 496, or 497 are encouraged but not counted toward the major requirements**American Chemical Society Certified in Environmental Chemistry**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Supporting Courses</b>		<b>48</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
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	
GEOSCI 202	Physical Geology	
MATH 202	Calculus and Analytic Geometry I	
MATH 260 or MATH 203	Introductory Statistics Calculus and Analytic Geometry II	
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I Principles of Physics I	
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II Principles of Physics II	
PHYSICS 203	Introductory Physics Lab I	
PHYSICS 204	Introductory Physics Lab II	
<b>Upper-Level Courses</b>		<b>39</b>
<b>Core Courses</b>		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 311	Analytical Chemistry	
CHEM 324 & CHEM 325	Biophysical Chemistry and Biophysical Chemistry Laboratory	
CHEM 413	Instrumental Analysis	
ENV SCI 305	Environmental Fate and Transport	
WATER 444	Aqueous Geochemistry	
<b>Electives, Choose 4 credits</b>		
BIOLOGY 322	Environmental Microbiology	
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	
CHEM 402 & CHEM 403	Advanced Organic Chemistry and Advanced Organic Chemistry Laboratory	
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory	
CHEM 420 & CHEM 423	Polymer Chemistry and Polymer Chemistry Laboratory	
ENV SCI 335	Water and Waste Water Treatment	
ENV SCI 424	Hazardous and Toxic Materials	

WATER 321

Stable Isotopes in the Environment

**Total Credits****87****Food Chemistry**

Code	Title	Credits
<b>Supporting Courses</b>		<b>37</b>
CHEM 207	Laboratory Safety	
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
MATH 202	Calculus and Analytic Geometry I	
MATH 260 or MATH 203	Introductory Statistics Calculus and Analytic Geometry II	
NUT SCI 212	Science of Food Preparation	
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I Principles of Physics I	
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II Principles of Physics II	
PHYSICS 203	Introductory Physics Lab I	
PHYSICS 204	Introductory Physics Lab II	
<b>Upper-Level Courses</b>		<b>35</b>
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory	
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 324 & CHEM 325	Biophysical Chemistry and Biophysical Chemistry Laboratory	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	
NUT SCI 300	Human Nutrition	
NUT SCI 312	Quantity Food Production and Service	
<b>Electives (choose 4 credits):</b>		
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	
CHEM 402 & CHEM 403	Advanced Organic Chemistry and Advanced Organic Chemistry Laboratory	
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory	
CHEM 413	Instrumental Analysis	
CHEM 420 & CHEM 423	Polymer Chemistry and Polymer Chemistry Laboratory	
<b>Total Credits</b>		<b>72</b>

**General Chemistry**

Code	Title	Credits
<b>Supporting Courses</b>		<b>29</b>
CHEM 207	Laboratory Safety	

CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory
MATH 202	Calculus and Analytic Geometry I
MATH 260 or MATH 203	Introductory Statistics Calculus and Analytic Geometry II
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I Principles of Physics I
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II Principles of Physics II
PHYSICS 203	Introductory Physics Lab I
PHYSICS 204	Introductory Physics Lab II
<b>Upper-Level Courses</b>	
<b>Core Courses</b>	
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II
CHEM 311	Analytical Chemistry
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory
CHEM 413	Instrumental Analysis
<b>Electives (choose 4 credits):</b>	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory
CHEM 402 & CHEM 403	Advanced Organic Chemistry and Advanced Organic Chemistry Laboratory
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory
CHEM 420 & CHEM 423	Polymer Chemistry and Polymer Chemistry Laboratory
<b>Total Credits</b>	

28

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## Chemistry Curriculum Guides

The following are curriculum guides for a four-year Chemistry degree program and are 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.

- Students must complete requirements in one of the following areas of emphasis: (p. 73)
  - ACS Certified Chemistry
  - Biochemistry
  - Environmental Chemistry
  - Food Chemistry
  - General Chemistry

## General Chemistry

An example: Four-year plan for **General Chemistry**  
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.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed		3
<b>Credits</b>		<b>12</b>
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 202	Calculus and Analytic Geometry I	4
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	4
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	4
PHYSICS 203	Introductory Physics Lab I	1
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	4
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II or Principles of Physics II	4
PHYSICS 204	Introductory Physics Lab II	1
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory	4
MATH 260 or MATH 203	Introductory Statistics or Calculus and Analytic Geometry II	4
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
CHEM 311	Analytical Chemistry	4
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	4
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>17</b>
<b>Senior</b>		
<b>Fall</b>		
CHEM 413	Instrumental Analysis	4
General Ed		3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>16</b>

<b>Spring</b>		
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory (or other chemistry elective)	4
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>13</b>
<b>Total Credits</b>		<b>120</b>

## Biochemistry

An example: Four-year plan for **Biochemistry**

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.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed		3
Elective		2
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 202	Calculus and Analytic Geometry I	4
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	4
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	4
PHYSICS 203	Introductory Physics Lab I	1
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	4
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II or Principles of Physics II	4
PHYSICS 204	Introductory Physics Lab II	1
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
CHEM 324 & CHEM 325	Biophysical Chemistry and Biophysical Chemistry Laboratory	4
MATH 260	Introductory Statistics	4
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
CHEM 311	Analytical Chemistry	4
BIOLOGY 303	Genetics	3

General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Senior</b>		
<b>Fall</b>		
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	4
CHEM 413	Instrumental Analysis (or other chemistry elective lecture and lab)	4
Elective		3
Elective		3
Elective		2
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 307	Cell Biology ((or other biology elective))	3
BIOLOGY 407 & BIOLOGY 408	Molecular Biology and Molecular Biology Laboratory	4
Elective		4
Elective		3
<b>Credits</b>		<b>14</b>
<b>Total Credits</b>		<b>120</b>

## ACS Certified Chemistry

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

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed		3
<b>Credits</b>		<b>12</b>
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 202	Calculus and Analytic Geometry I	4
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	4
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	4
PHYSICS 203	Introductory Physics Lab I	1
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	4
CHEM 311	Analytical Chemistry	4
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II or Principles of Physics II	4
PHYSICS 204	Introductory Physics Lab II	1



General Ed		3
	<b>Credits</b>	<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
CHEM 320 & CHEM 322	Thermodynamics and Kinetics and Thermodynamics and Kinetics Laboratory	4
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
MATH 260 or MATH 203	Introductory Statistics or Calculus and Analytic Geometry II	4
General Ed		3
Elective		3
	<b>Credits</b>	<b>18</b>
<b>Spring</b>		
CHEM 321 & CHEM 323	Structure of Matter and Structure of Matter Laboratory	4
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	4
General Ed		3
Elective		3
	<b>Credits</b>	<b>14</b>
<b>Senior</b>		
<b>Fall</b>		
CHEM 413	Instrumental Analysis	4
CHEM 496	Project/Research Assistantship (can be taken over multiple semesters)	4
General Ed		3
Elective		3
Elective		3
	<b>Credits</b>	<b>17</b>
<b>Spring</b>		
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory	4
General Ed		3
Elective		3
Elective		3
	<b>Credits</b>	<b>13</b>
	<b>Total Credits</b>	<b>120</b>

## Environmental Chemistry

An example: Four-year plan for **Chemistry – Environmental Chemistry**

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed		3
	<b>Credits</b>	<b>12</b>
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 202	Calculus and Analytic Geometry I	4
General Ed		3
General Ed		3
	<b>Credits</b>	<b>15</b>

**Sophomore**

<b>Fall</b>		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	4
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	4
PHYSICS 203	Introductory Physics Lab I	1
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>

<b>Spring</b>		
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	4
CHEM 311	Analytical Chemistry	4
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II or Principles of Physics II	4
PHYSICS 204	Introductory Physics Lab II	1
General Ed		3
<b>Credits</b>		<b>16</b>

<b>Junior</b>		
<b>Fall</b>		
CHEM 324 & CHEM 325	Biophysical Chemistry and Biophysical Chemistry Laboratory	4
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
MATH 260 or MATH 203	Introductory Statistics or Calculus and Analytic Geometry II	4
General Ed		3
Elective		3
<b>Credits</b>		<b>18</b>

<b>Spring</b>		
CHEM 410 & CHEM 411	Inorganic Chemistry and Inorganic Chemistry Laboratory (or other chemistry elective)	4
GEOSCI 202	Physical Geology	4
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>17</b>

<b>Senior</b>		
<b>Fall</b>		
CHEM 413	Instrumental Analysis	4
WATER 444	Aqueous Geochemistry	3
General Ed		3
Elective		4
<b>Credits</b>		<b>14</b>

<b>Spring</b>		
ENV SCI 305	Environmental Fate and Transport	4
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>13</b>
<b>Total Credits</b>		<b>120</b>

## Food Chemistry

An example: Four-year plan for **Food Chemistry**

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.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 202	Calculus and Analytic Geometry I	4
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	4
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	4
PHYSICS 203	Introductory Physics Lab I	1
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	4
PHYSICS 104 or PHYSICS 202	Fundamentals of Physics II or Principles of Physics II	4
PHYSICS 204	Introductory Physics Lab II	1
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
CHEM 324 & CHEM 325	Biophysical Chemistry and Biophysical Chemistry Laboratory	4
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
NUT SCI 212	Science of Food Preparation	4
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
CHEM 311	Analytical Chemistry	4
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory	4
MATH 260 or MATH 203	Introductory Statistics or Calculus and Analytic Geometry II	4
Elective		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
CHEM 413	Instrumental Analysis (or other chemistry elective)	4
NUT SCI 300	Human Nutrition	3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>16</b>

<b>Spring</b>		
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	4
NUT SCI 312	Quantity Food Production and Service	4
Elective		3
Elective		3
<b>Credits</b>		<b>14</b>
<b>Total Credits</b>		<b>120</b>

## Communication

### 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.

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 eight areas of emphasis.

- Students in the **generalist** emphasis can select any upper-level communication courses of interest to them to design their own path to degree. This emphasis can be completed face-to-face, completely online, or a mix of both.
- 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. This emphasis can be completed face-to-face, completely online, or a mix of both.
- 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. This emphasis can be completed face-to-face, completely online, or a mix of both.
- Students in **social media strategy** focus on the strategies and tactics needed to advance organizational goals. Students will be prepared for long-term careers working as social media managers, specialists, curators, and content providers.
- Students in **sports communication** focus on the unique dynamics associated with sports media, organizations, teams, and players. Students will be prepared for long-term careers working as sport reporters, broadcasters, media specialists, or public relations professionals.

## Major Area of Emphasis (p. 110)

Students must complete requirements in one of the following areas of emphasis: (p. 110)

- Generalist (p. 110)
- Health Communication (p. 110)
- Journalism (p. 110)
- Mass Media (p. 110)

- Organizational Communication (p. 110)
- Public Relations (p. 110)
- Social Media Communication (p. 110)
- Sports Communication (p. 110)

## Minor

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

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

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

## Curriculum Guide

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

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
COMM 102	Introduction to Communication	3
First Year Seminar		3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
COMM 133	Fundamentals of Public Address	3
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication or Small Group Communication	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
COMM 205	Elements of Media	3
COMM 290	Communication Problems and Research Methods	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
COMM 185	Business and Media Writing	3
COMM 309	Mass Media Advertising	3
General Ed		3

General Ed		3
Elective		3
Elective		
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
COMM 302	News Reporting and Writing	3
COMM 307	Video Production	3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
COMM 306	Radio Broadcasting	3
COMM 378	Documentary Video Production	3
COMM 380	Communication Law	3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
COMM 497	Internship (Or Upper Level Comm Course)	3
Upper Level Comm Course		3
General Ed		3
Elective		3
<b>Credits</b>		<b>12</b>
<b>Spring</b>		
COMM 430	Information, Media and Society	3
COMM 477	Social Media Strategies	3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>117</b>

## Faculty

**Mary D Bina**; Teaching Professor; B.F.A., University of Wisconsin - Milwaukee

**Shauna M Froelich**; Teaching Professor; JD, Marquette University

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

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

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

**Joseph Yoo**; Associate Professor; Ph.D., University of Texas

**Justin Kavlie**; Assistant Professor; Ph.D., University of North Carolina

## Communication Major

### Area of Emphasis

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

- Generalist
- Health Communication
- Journalism
- Mass Media
- Organizational Communication
- Public Relations

- Social Media Communication
- Sports Communication

## Generalist

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		<b>18</b>
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMM 166	Fundamentals of Interpersonal Communication	
or COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>30</b>
Select 30 credits from any 300 and 400 level COMM courses <sup>2</sup>		
<b>Total Credits</b>		<b>48</b>

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

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

## Health Communication

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		<b>18</b>
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	
<b>Upper-Level Courses <sup>1</sup></b>		<b>30</b>
COMM 305	Principles of Public Relations/Corporate Communications	
COMM 308	Information and Communication Technologies	
COMM 335	Organizational Communication	
COMM 370	Health Communication Campaigns and Strategies	
COMM 380	Communication Law	
COMM 430	Information, Media and Society	
COMM 470	Health Communication and Technology	
COMM 480	Cases in Communications and Media Management	
<b>Choose 6 credits of upper level Communication electives <sup>2</sup></b>		
<b>Total Credits</b>		<b>48</b>

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

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

## Journalism

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		<b>18</b>
<b>Core Courses</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	

COMM 185	Business and Media Writing
COMM 205	Elements of Media
COMM 290	Communication Problems and Research Methods
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication
<b>Upper-Level Courses <sup>1</sup></b>	
COMM 302	News Reporting and Writing
COMM 305	Principles of Public Relations/Corporate Communications
COMM 307	Video Production
COMM 380	Communication Law
COMM 336	Theories of the Interview
COMM 378	Documentary Video Production
COMM 396	Advanced Reporting
COMM 425	Digital Journalism
COMM 474	Media Workshop
<b>Choose one upper-level elective course in Communication <sup>2</sup></b>	
<b>Total Credits</b>	

30

48

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

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

## Mass Media

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		<b>18</b>
<b>Core Courses</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication	
<b>Upper-Level Courses <sup>1</sup></b>		<b>30</b>
COMM 302	News Reporting and Writing	
COMM 306	Radio Broadcasting	
COMM 307	Video Production	
COMM 309	Mass Media Advertising	
COMM 378	Documentary Video Production	
COMM 380	Communication Law	
COMM 430	Information, Media and Society	
COMM 477	Social Media Strategies	
<b>Choose two upper-level Communication elective courses (totaling 6 credits) <sup>2</sup></b>		
<b>Total Credits</b>		<b>48</b>

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

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

## Organizational Communication

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		<b>18</b>
<b>Core Courses</b>		
COMM 102	Introduction to Communication	



COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication	
<b>Upper-Level Courses <sup>1</sup></b>		<b>30</b>
COMM 305	Principles of Public Relations/Corporate Communications	
COMM 308	Information and Communication Technologies	
COMM 333	Persuasion and Argumentation	
COMM 335	Organizational Communication	
COMM 336	Theories of the Interview	
COMM 370	Health Communication Campaigns and Strategies	
COMM 380	Communication Law	
COMM 477	Social Media Strategies	
COMM 480	Cases in Communications and Media Management	
<b>Choose one upper-level elective course in Communication <sup>2</sup></b>		
<b>Total Credits</b>		<b>48</b>

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

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

## Public Relations

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		<b>18</b>
<b>Core Courses</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication	
<b>Upper-Level Courses <sup>1</sup></b>		<b>30</b>
COMM 302	News Reporting and Writing	
COMM 305	Principles of Public Relations/Corporate Communications	
COMM 335	Organizational Communication	
COMM 370	Health Communication Campaigns and Strategies	
COMM 380	Communication Law	
COMM 382	Public Relations Campaigns	
COMM 477	Social Media Strategies	
COMM 480	Cases in Communications and Media Management	
COMM 474 or COMM 317	Media Workshop How to Create Great Social Media Content	
<b>Choose 1 upper-level elective course in Communication <sup>2</sup></b>		
<b>Total Credits</b>		<b>48</b>

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

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

## Social Media Communications

Code	Title	Credits
<b>Supporting Courses</b>		<b>18</b>
<b>Core Courses</b> <sup>1</sup>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication	
<b>Upper-Level Courses</b> <sup>1</sup>		<b>30</b>
COMM 305	Principles of Public Relations/Corporate Communications	
COMM 307	Video Production	
COMM 308	Information and Communication Technologies	
COMM 317	How to Create Great Social Media Content	
COMM 335	Organizational Communication	
COMM 336	Theories of the Interview	
COMM 380	Communication Law	
COMM 477	Social Media Strategies	
INFO SCI 302	Introduction to Data Science	
Any Upper-Level COMM or IS Elective (Totaling 3 Credits) <sup>2</sup>		
<b>Total Credits</b>		<b>48</b>

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

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

## Sports Communication

Code	Title	Credits
<b>Supporting Courses</b>		<b>18</b>
<b>Core Courses</b> <sup>1</sup>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 185	Business and Media Writing	
COMM 205	Elements of Media	
COMM 290	Communication Problems and Research Methods	
COMM 166 or COMM 237	Fundamentals of Interpersonal Communication Small Group Communication	
<b>Upper-Level Courses</b> <sup>1</sup>		<b>30</b>
COMM 302	News Reporting and Writing	
COMM 304	Sports, Media, and Society	
COMM 305	Principles of Public Relations/Corporate Communications	
COMM 307	Video Production	
COMM 317	How to Create Great Social Media Content	
COMM 380	Communication Law	
COMM 382	Public Relations Campaigns	
COMM 390	Sports Writing, Promotion, and Public Relations	
COMM 480 or COMM 477	Cases in Communications and Media Management Social Media Strategies	
Any Upper-Level COMM or IS Elective (totaling 3 Credits) <sup>2</sup>		
<b>Total Credits</b>		<b>48</b>

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

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

# Community Health Education

(Bachelor of Science)

This 120-credit program, which aligns with the National Commission for Health Education Credentialing competencies, will create new career opportunities for students and partnerships with the community; opportunities and partnerships consistent with the University's Strategic Plan. As part of the Health Professions and Related Programs array, UW-Green Bay has numerous programs in this specialized area so, with the exception of five courses, the major is built from existing courses in related areas (i.e., sciences, health management, social work). Additionally, 26 credits within the supporting and major courses cover all but 18 credits of general education requirements.

The program utilizes high impact practices including a semester-long practicum at a community agency. Program graduates will be able to assess, plan, implement, and evaluate health education programs for a variety of populations.

Students entering the major may be new freshmen who come to UW-Green Bay because of this major or transfer students from other post-secondary institutions who find this major appealing. The Community Health Education program will not use a cohort model, block requirement plan, or seek accreditation. The UW-Green Bay program will offer students a curriculum grounded on understanding the intersection of governmental and non-governmental healthcare organizations and how economics and policy influence health. The Community Health Education major will be an option for students who are not accepted into the Nursing program or prefer a non-clinical program.

As more organizations and communities focus on wellness and prevention, and with growth in the health industry, community health educators are sought after and in high demand. Graduates with a major in community health education find jobs in the health care industry (e.g., hospitals, public health departments, health insurance), non-profit organizations, government agencies, and private businesses.

According to the Bureau of Labor Statistics, overall employment of community health educators is projected to grow 11% from 2018 to 2028, which is much faster than the average for all occupations.

## Student Learning and Program Outcomes

Program outcomes align with the NCHEC <sup>1</sup> responsibilities, competencies, and sub-competencies for health education specialist practice.

By the end of the program, students will:

1. Understand the structure of contemporary healthcare including public, non-governmental, and health systems.
2. Use an interdisciplinary approach to addressing complex population health issues and factors that influence health.
3. Apply the steps of assessment, planning, implementation, and evaluation in the design of community health campaigns.
4. Gather, analyze, and synthesize multiple sources of community/public information.
5. Identify and engage priority populations, partners, and stakeholders to design and implement health education programming.
6. Apply established ethical principles and principles of cultural humility, inclusion, and diversity in the development of community/population health campaigns.

<sup>1</sup> National Commission for Health Education Credentialing (NCHEC) (n.d.). Responsibilities and Competencies for Health Education Specialists. Retrieved from <https://www.nche.org/responsibilities-and-competencies> (<https://www.nche.org/responsibilities-and-competencies/>)

## Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>13</b>
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
PSYCH 102	Introduction to Psychology	
PSYCH 203	Introduction to Lifespan Development	
PSYCH 205	Social Science Statistics	
<b>Lower-Level Courses</b>		<b>12</b>

HUM BIOL 102	Introduction to Human Biology
HUM BIOL 215	Personal Health and Wellness
NURSING 200	Fundamentals of Healthcare Terminology
NUT SCI 202	Ethnic Influences on Nutrition
<b>Upper-Level Courses</b>	
CHE 310	Foundations of Community Health Education
CHE 320	Methods and Strategies for Community Health Education
CHE 330	Program Planning and Evaluation in Community Health Education
CHE 440	Capstone Seminar
CHE 450	Community Health Education Field Practicum
HLTH MGT 301	Health Care Systems
HLTH MGT 302	Healthcare Management
HLTH MGT 401	Healthcare Economics & Policy
HLTH MGT 402	Population Healthcare Management
HUM BIOL 322	Epidemiology
NURSING 340	Quality Improvement
PSYCH 310	Drugs and Behavior
SOC WORK 344	Grant Writing for Success
<b>Upper-Level Elective: (choose 3 credits)</b>	
COMM 370	Health Communication Campaigns and Strategies
COMM 470	Health Communication and Technology
HIMT 440	Group Processes, Team Building and Leadership
ORG LEAD 348	Organizational Behavior Across Sectors
PUB ADM 344	Leadership in Organizations

**Total Credits** **71**

## Curriculum Guide

An example four-year plan. This plan is a representation. Consult with your advisor.

120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
First Year Seminar		3
HUM BIOL 102	Introduction to Human Biology	3
PSYCH 102	Introduction to Psychology	3
GEN EDUC - Humanities		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
WF 105	Research and Rhetoric	3
GEN EDUC - Fine Arts		3
GEN EDUC - Natural Science		3
Elective		6
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
PSYCH 205	Social Science Statistics	4
COMM 133 or COMM 166	Fundamentals of Public Address or Fundamentals of Interpersonal Communication	3
PSYCH 203	Introduction to Lifespan Development	3
NURSING 200	Fundamentals of Healthcare Terminology	3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
HUM BIOL 215	Personal Health and Wellness	3

HUM BIOL 322	Epidemiology	3
NUT SCI 202	Ethnic Influences on Nutrition	3
Elective		6
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
CHE 310	Foundations of Community Health Education	3
NURSING 340	Quality Improvement	2
HLTH MGT 301	Health Care Systems	3
HLTH MGT 302	Healthcare Management	3
Elective		4
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
CHE 330	Program Planning and Evaluation in Community Health Education	3
HLTH MGT 401	Healthcare Economics & Policy	3
HLTH MGT 402	Population Healthcare Management	3
PSYCH 310	Drugs and Behavior	3
SOC WORK 344	Grant Writing for Success	2
<b>Credits</b>		<b>14</b>
<b>Senior</b>		
<b>Fall</b>		
CHE 320	Methods and Strategies for Community Health Education	3
CHE Elective Course		3
GEN EDUC - Humanities		3
GEN EDUC - Social Sciences		3
Elective		6
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
CHE 440	Capstone Seminar	3
CHE 450	Community Health Education Field Practicum	9
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>120</b>

## Faculty

**Christine L Vandenhouten**; Professor; Ph.D., Marquette University\*

**Heidi Neverman**; Assistant Teaching Professor; M.S.N., University of Mary

## Computer Science

(Bachelor of Science)

Students interested in Computer Science have several options, including an emphasis in Cybersecurity, a more traditional emphasis in Software Engineering, and a minor. The two Computer Science emphases offer an expanding array of theoretical and applied work that prepares students to enter the job market or pursue graduate studies. The minor in Computer Science offers lower-level basic skills and an upper-level flexible approach that can be used to augment many majors, from business to the design arts and humanities.

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

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

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

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

All registered students have access to the University's computing facilities. Student accounts allow students to access a wide variety of both PC-compatible and Macintosh computers, Linux and database servers (for select courses), various software developer environments, and of course the internet. Labs are open seven days per week and are staffed by consultants who provide assistance in using the facilities. Classrooms also have network connections which allow demonstrations of software and internet applications to be integrated with classroom lectures. There is also a Computer Science teaching lab with 25 workstations and display facilities that support Computer Science instruction.

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

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

## Major Area of Emphasis (p. 120)

Students must complete requirements in one of the following areas of emphasis: (p. 120)

- Artificial Intelligence (p. 120)
- Cybersecurity (p. 120)

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
COMP SCI 120	Web Programming	
COMP SCI 130	Computer Programming I	
COMP SCI 240	Discrete Mathematics	
<b>Upper-Level Courses</b>		<b>13-15</b>
<b>Required</b>		
COMP SCI 330	Computer Programming II	
<b>Electives</b>		
(choose four 300-level or 400-level COMP SCI courses):		
<b>Total Credits</b>		<b>22-24</b>

## Curriculum Guide

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

### 120 credits necessary to graduate.

Students must complete requirements in one of the following areas of emphasis: (p. 120)

- Artificial Intelligence
- Cybersecurity (p. 120)

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

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
COMP SCI 120	Web Programming	3
ENGR 236	Technical Writing and Information Literacy	3

COMM 133 or COMM 166 or COMM 237	Fundamentals of Public Address or Fundamentals of Interpersonal Communication or Small Group Communication	3
GenEd Course 1		3
MATH 202	Calculus and Analytic Geometry I	4
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
COMP SCI 130	Computer Programming I	3
COMP SCI 171	Technology, Ethics, and Society	3
COMP SCI 251	Computer Systems Fundamentals	3
GenEd Course 2		3
MATH 260	Introductory Statistics	4
<b>Credits</b>		<b>16</b>
<b>Second Year</b>		
<b>Fall</b>		
COMP SCI 140	Programming for Quantitative Problem Solving	3
COMP SCI 240	Discrete Mathematics	3
COMP SCI 330	Computer Programming II	3
GenEd Course 3		3
GenEd Course 4		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
COMP SCI 181	Human-Centered Design	3
COMP SCI 221	Database Design & Management	3
COMP SCI 348	Computer Networks	3
GenEd Course 5		3
MATH 320	Linear Algebra and Matrix Theory	4
<b>Credits</b>		<b>16</b>
<b>Third Year</b>		
<b>Fall</b>		
COMP SCI 351	Data Structures	3
COMP SCI 353	Computer Architecture and Organization	3
COMP SCI 361	Information Assurance and Security	3
COMP SCI 362	Artificial Intelligence & Data Science	3
GenEd Course 6		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
COMP SCI 373	Cloud Computing	3
COMP SCI 450	Theory of Algorithms	3
COMP SCI 452	Operating Systems Using Linux	3
Emphasis Elective 1		3
GenEd Course 7		3
<b>Credits</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
Emphasis Elective 2		3
Emphasis Elective 3		3
GenEd Course 8		3
GenEd Course 9		3
Free Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
COMP SCI 490	Capstone in Computer Science	3
Upper-level Elective		3
GenEd Course 10		3
Free Elective		3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>120</b>

## Faculty

**Tanim Ahsan**; Associate Professor; Ph.D., Marquette University\*

**Iftekhar Anam**; Associate Professor; Ph.D., University of Memphis, chair\*

**Nazim Choudhury**; Associate Professor; Ph.D., University of Sydney\*

**Sayed Farzana Aktar**; Assistant Professor; Ph.D., Marquette University

**Prakash Duraisamy**; Assistant Professor; Ph.D., University of North Texas

**Omar Meqdadi**; Assistant Professor; Ph.D., Kent State University\*

**Md Golam Murshed**; Assistant Professor; Ph.D., Clarkson University

## Computer Science Major

### Area of Emphasis

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

- Artificial Intelligence
- Cybersecurity

### Artificial Intelligence

Code	Title	Credits
<b>Supporting Courses (Non-CS classes)</b>		<b>18</b>
ENGR 236	Technical Writing and Information Literacy	
MATH 202	Calculus and Analytic Geometry I	
MATH 260	Introductory Statistics	
MATH 320	Linear Algebra and Matrix Theory	
<b>Choose 1 from the following 3 COMM courses</b>		
COMM 133	Fundamentals of Public Address	
or COMM 166	Fundamentals of Interpersonal Communication	
or COMM 237	Small Group Communication	
<b>CS Fundamental Courses</b>		<b>24</b>
COMP SCI 120	Web Programming	
COMP SCI 130	Computer Programming I	
COMP SCI 140	Programming for Quantitative Problem Solving	
COMP SCI 171	Technology, Ethics, and Society	
COMP SCI 181	Human-Centered Design	
COMP SCI 221	Database Design & Management	
COMP SCI 240	Discrete Mathematics	
COMP SCI 251	Computer Systems Fundamentals	
<b>CS Advanced Courses</b>		<b>30</b>
COMP SCI 330	Computer Programming II	
COMP SCI 348	Computer Networks	
COMP SCI 351	Data Structures	
COMP SCI 353	Computer Architecture and Organization	
COMP SCI 361	Information Assurance and Security	
COMP SCI 362	Artificial Intelligence & Data Science	
COMP SCI 373	Cloud Computing	
COMP SCI 450	Theory of Algorithms	
COMP SCI 452	Operating Systems Using Linux	
COMP SCI 490	Capstone in Computer Science	
<b>Artificial Intelligence &amp; Data Science Emphasis</b>		<b>12</b>



**Required Courses (choose three):**

COMP SCI 465	Machine Learning
COMP SCI 466	Deep Learning
COMP SCI 468	Computer Vision
COMP SCI 470	Natural Language Processing

**Elective Courses (Choose one):**

COMP SCI 357	Theory of Programming Languages
COMP SCI 392	Introduction to Mobile Computing
COMP SCI 421	Parallel & Distributed Computing
COMP SCI 451	Database Systems and Big Data Processing
COMP SCI 465	Machine Learning
COMP SCI 466	Deep Learning
COMP SCI 468	Computer Vision
COMP SCI 470	Natural Language Processing
COMP SCI 471	Software Security
COMP SCI 472	Network Security
COMP SCI 473	Digital Forensics
COMP SCI 475	Introduction to Cryptography
COMP SCI 476	Ethical Hacking
COMP SCI 497	Internship

**Total Credits****84**

## Cybersecurity

Code	Title	Credits
<b>Supporting Courses (Non-CS classes)</b>		<b>18</b>
ENGR 236	Technical Writing and Information Literacy	
MATH 202	Calculus and Analytic Geometry I	
MATH 260	Introductory Statistics	
MATH 320	Linear Algebra and Matrix Theory	
<b>Choose 1 from the following 3 COMM courses</b>		
COMM 133	Fundamentals of Public Address	
or COMM 166	Fundamentals of Interpersonal Communication	
or COMM 237	Small Group Communication	
<b>CS Fundamental Courses</b>		<b>24</b>
COMP SCI 120	Web Programming	
COMP SCI 130	Computer Programming I	
COMP SCI 140	Programming for Quantitative Problem Solving	
COMP SCI 171	Technology, Ethics, and Society	
COMP SCI 181	Human-Centered Design	
COMP SCI 221	Database Design & Management	
COMP SCI 240	Discrete Mathematics	
COMP SCI 251	Computer Systems Fundamentals	
<b>CS Advanced Courses</b>		<b>30</b>
COMP SCI 330	Computer Programming II	
COMP SCI 348	Computer Networks	
COMP SCI 351	Data Structures	
COMP SCI 353	Computer Architecture and Organization	
COMP SCI 361	Information Assurance and Security	
COMP SCI 362	Artificial Intelligence & Data Science	
COMP SCI 373	Cloud Computing	
COMP SCI 450	Theory of Algorithms	
COMP SCI 452	Operating Systems Using Linux	

COMP SCI 490	Capstone in Computer Science	
<b>Cybersecurity Emphasis</b>		<b>12</b>
<b>Required Courses (choose three):</b>		
COMP SCI 471	Software Security	
COMP SCI 472	Network Security	
COMP SCI 473	Digital Forensics	
COMP SCI 475	Introduction to Cryptography	
COMP SCI 476	Ethical Hacking	
<b>Elective Courses (Choose one):</b>		
COMP SCI 357	Theory of Programming Languages	
COMP SCI 392	Introduction to Mobile Computing	
COMP SCI 421	Parallel & Distributed Computing	
COMP SCI 451	Database Systems and Big Data Processing	
COMP SCI 465	Machine Learning	
COMP SCI 466	Deep Learning	
COMP SCI 468	Computer Vision	
COMP SCI 470	Natural Language Processing	
COMP SCI 471	Software Security	
COMP SCI 472	Network Security	
COMP SCI 473	Digital Forensics	
COMP SCI 475	Introduction to Cryptography	
COMP SCI 476	Ethical Hacking	
COMP SCI 497	Internship	
<b>Total Credits</b>		<b>84</b>

## Criminal Justice

Criminal justice is an interdisciplinary minor that provides students with the opportunity to explore and analyze important community issues that will help enhance their civic responsibility and their ability to improve the current criminal justice system. Additionally, the program will enhance students' critical analysis skills and include opportunities to explore issues such as diversity and inclusion.

Students will begin by taking supporting courses in Public Administration, Sociology, and/or Political Science that will lay the groundwork for more advanced criminal justice course work. Core upper-level courses will help develop their ability to comprehend, synthesize, and critically analyze scientific evidence. In addition, these courses will enhance their abilities to critically engage in theory, practice, and policy in general, laying the groundwork for more advanced analysis in upper-level courses focusing on criminal justice administration and theory. Nine credits of upper electives will enable students to study focused topics in criminal justice and criminology in greater depth. A majority of the coursework will address and engage students in issues of equity and inclusion within the criminal justice system.

Overall, a minor in Criminal Justice is designed for students seeking careers in the public and nonprofit sectors such as probation and parole, law enforcement, pre-law, victim advocacy, and court services, and it is available to students majoring in any discipline at the University of Wisconsin-Green Bay. The program is housed within the Department of Public and Environmental Affairs under the oversight of the Public Administration program, though the curriculum is supported by eight different programs.

## Major

Code	Title	Credits
<b>Supporting Courses:</b>		<b>18</b>
POL SCI 101	American Government and Politics	
PSYCH 205	Social Science Statistics	
PUB ADM 215	Introduction to Public and Nonprofit Service	
SOCIOL 101	Introduction to Sociology	
SOCIOL 231	Crime and Criminal Justice	
SOCIOL 246	Juvenile Delinquency	
<b>Upper-Level Courses:</b>		<b>24</b>
<b>Required:</b>		
SOCIOL 325	Research Methods in Sociology & Anthropology	

SOCIOL 404	Criminology
DJS 303	Criminal Justice Process
or SOCIOL 316	Criminal Justice Systems, Administration, and Processes
<b>Electives (choose 5 courses):</b>	
DJS 320	Constitutional Law
DJS 325	Law and Society
DJS 348	Gender and the Law
EPP 378	Environmental Law
EPP 379	Natural Resources Policy, Law, and Administration
FNS 392	First Nations Justice and Tribal Governments
PHILOS 301	Ethical Theory
PHILOS 326	Philosophy, Politics and Law
POL SCI 322	Politics of Crime and Punishment
POL SCI 361	Immigration and Immigration Policy
POL SCI 378	Environmental Law
PSYCH 325	Forensic Psychology
PUB ADM 408	Public Policy Analysis
SOCIOL 304	Deviant Behavior
SOCIOL 315	Street Gangs in America
SOCIOL 357	Environmental Justice
SOCIOL 497	Internship
<b>Total Credits</b>	
<b>42</b>	

## Minor

Code	Title	Credits
<b>Supporting Courses (choose two of the following):</b>		<b>6</b>
POL SCI 101	American Government and Politics	
PUB ADM 215	Introduction to Public and Nonprofit Service	
SOCIOL 101	Introduction to Sociology	
<b>Core Courses (choose one of the following):</b>		<b>3</b>
SOCIOL 231	Crime and Criminal Justice	
SOCIOL 246	Juvenile Delinquency	
<b>Upper-Level Core:</b>		<b>6</b>
SOCIOL 404	Criminology	
<b>Choose one:</b>		
DJS 303	Criminal Justice Process	
SOCIOL 316	Criminal Justice Systems, Administration, and Processes	
POL SCI 322	Politics of Crime and Punishment	
<b>Upper-Level Electives (choose three of the following):</b>		<b>9</b>
DJS 320	Constitutional Law	
DJS 325	Law and Society	
DJS 348	Gender and the Law	
EPP 379	Natural Resources Policy, Law, and Administration	
FNS 392	First Nations Justice and Tribal Governments	
PHILOS 301	Ethical Theory	
PHILOS 326	Philosophy, Politics and Law	
POL SCI 361	Immigration and Immigration Policy	
POL SCI 378	Environmental Law	
PUB ADM 314	Administrative Law	
PUB ADM 408	Public Policy Analysis	
SOCIOL 304	Deviant Behavior	
SOCIOL 315	Street Gangs in America	

## Faculty

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

**Hye-Kyung Kim**; Professor; Ph.D., Marquette University

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

**Dana Atwood**; Associate Professor; Ph.D., Western Michigan University

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

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

**Christopher Kleps**; Assistant Professor, Ohio State University

## Democracy and Justice Studies

(Bachelor of Arts)

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

Democracy and Justice Studies encourages students to put democracy and justice into action in the classroom, in internships, in research projects, in their volunteer lives, and in their eventual career choices. Along with substantive training in current and past social and political issues, students learn skills such as digital and textual literacy, the ability to express arguments and ideas clearly in speech and writing, critical thinking, and cultural competence. This program thus offers wide-ranging educational challenges and provides students with broadly applicable learning experiences useful for many career paths in the public, private and non-profit sectors. Democracy and Justice Studies is encouraged and appropriate for individuals interested in graduate work in the social sciences and humanities, law school, journalism, international business, and a variety of careers related to community development, social justice, social and environmental activism, women's and gender equity, and other social issues.

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

Majors select one or more areas of emphasis from among the following:

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

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

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

**Legal Studies** examines law and legal systems past and present, both in the United States and around the world, and their relationship to justice and democracy.

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

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

The minor in Global Studies (p. 190)s 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.

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 <https://www.uwgb.edu/international-education/>

## Major Area of Emphasis (p. 126)

Students must complete requirements in one of the following areas of emphasis: (p. 126)

- Criminal Justice (p. 126)
- Global Democracy (p. 126)
- Legal Studies (p. 126)
- Social Justice (p. 126)
- Social Studies Education (p. 126)

## Global Studies Minor (p. 190)

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ENV SCI 102	Introduction to Environmental Sciences	
GEOG 102	World Regions and Concepts: A Geographic Analysis	
<b>Choose one of the following courses:</b>		
ANTHRO 100	Varieties of World Culture	
ECON 102	Economics of the Modern World	
ECON 202	Macro Economic Analysis	
EPP 102	Environment and Society	
HUM BIOL 217	Human Disease and Society	
HISTORY 103	World Civilizations I	
HISTORY 104	World Civilizations II	
NUT SCI 250	World Food and Population Issues	
POL SCI 100	Global Politics and Society	
SOCIOL 201	City Life and Globalization	
<b>Upper-Level Courses</b>		<b>15</b>
<b>Choose five courses from the thematic categories below. At least one courses must be from each categories</b>		
<b>Global Democracy: institutions and citizenship</b>		
DJS 363	Topics in Democracy and Justice (Topic: South Africa. Topic: Genocide)	
GERMAN 358	German Politics and Society	
HISTORY 353	The U.S. and the World	
POL SCI 351	Comparative Politics	
POL SCI 360	International Relations	
POL SCI 370	Foreign and Defense Policies	
<b>Global Environmental Sustainability: natural resources, climate change and human needs and services</b>		
ANTHRO 304	Family, Kin, and Community	
ENV SCI 303	Environmental Sustainability	
ENV SCI 425	Global Climate Change	
HISTORY 326	Global Environmental History	
HISTORY 450	War and Civilization	
NURSING 492	Special Topics in Nursing (Topic: Global Aspects of Healthcare)	
POL SCI 380	Global Environmental Politics and Policy	
PSYCH 350	Cultural Psychology	
<b>Global Peoples: nationality, ethnicity, race and religion</b>		
GEOG 370	Geography of South America	
HISTORY 334	Contemporary Europe	
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	
<b>Total Credits</b>		<b>24</b>

## Social Justice Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
DJS 102	Introduction to Social Justice	
<b>Choose one (3 credits):</b>		
COMM SCI 200	Civic Scholars Practicum	
DJS 200	Mentoring for Equity and Inclusion	
DJS 204	Freedom and Social Control	
DJS 221	Law and Equality in Historical Perspective	
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
WOST 201	Introduction to LGBTQ Studies	
<b>Upper level courses</b>		<b>12</b>
DJS 470	Senior Seminar in Democracy and Justice Studies	
<b>Choose three courses (9 credits):</b>		
COMM SCI 497	Internship	
DJS 320	Constitutional Law	
DJS 330	Prison and Society	
DJS 361	Historical Perspectives on American Democracy	
DJS 363	Topics in Democracy and Justice	
HISTORY 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	
POL SCI 349	American Political Thought	
POL SCI 351	Comparative Politics	
POL SCI 361	Immigration and Immigration Policy	
WOST 350	Topics in Women's, Gender, and Sexuality Studies	
WOST 437	Feminist Theory	
<b>Total Credits</b>		<b>18</b>

## Faculty

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

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

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

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

**Kimberley A Reilly**; Associate 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:

- Criminal Justice
- Global Democracy
- Legal Studies

- Social Justice
- Social Studies Education

## Criminal Justice

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
DJS 102	Introduction to Social Justice	
DJS 204	Freedom and Social Control	
POL SCI 101	American Government and Politics	
<b>Choose one of the following supporting courses:</b>		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
HISTORY 207	Introduction to African-American History	
<b>Choose two of the following elective courses:</b>		
Students can also choose HISTORY 205, HISTORY 206, or HISTORY 207 in this category if not used for one of the requirements above		
COMM SCI 200	Civic Scholars Practicum	
DJS 200	Mentoring for Equity and Inclusion	
DJS 221	Law and Equality in Historical Perspective	
PHILOS 102	Contemporary Ethical Issues	
POL SCI 100	Global Politics and Society	
PUB ADM 215	Introduction to Public and Nonprofit Service	
SOCIOL 246	Juvenile Delinquency	
SOCIOL 101	Introduction to Sociology	
WOST 201	Introduction to LGBTQ Studies	
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
<b>Choose one of the following Research Skills courses:</b>		
COMM 290	Communication Problems and Research Methods	
COMM SCI 301	Foundations for Social Research	
HISTORY 290	The Craft of History	
<b>Upper-Level Courses</b>		<b>24</b>
DJS 303	Criminal Justice Process	
DJS 330	Prison and Society	
DJS 363	Topics in Democracy and Justice	
DJS 470	Senior Seminar in Democracy and Justice Studies	
SOCIOL 404	Criminology	
<b>Choose one of the following upper level courses:</b>		
DJS 361	Historical Perspectives on American Democracy	
POL SCI 340	Political Theory	
POL SCI 349	American Political Thought	
<b>Choose two of the following elective courses:</b>		
Students can also choose DJS 361, POL SCI 340, or POL SCI 349 in this category if not used to fulfill the category above		
DJS 320	Constitutional Law	
DJS 325	Law and Society	
DJS 348	Gender and the Law	
DJS 400	Mentoring for Equity and Inclusion	
DJS 497	Internship	
DJS 498	Independent Study	
DJS 499	Travel Course	
FNS 392	First Nations Justice and Tribal Governments	
HISTORY 340	Topics in African American History <sup>When covering crime and punishment (see DJS advisor)</sup>	
HISTORY 353	The U.S. and the World	
HISTORY 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
PHILOS 326	Philosophy, Politics and Law
POL SCI 312	Community Politics
SOCIOL 303	Race and Ethnic Relations
SOCIOL 307	Social Theory
SOCIOL 315	Street Gangs in America
WOST 437	Feminist Theory

**Total Credits****45**

## Global Democracy

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
DJS 104	Introduction to Global Democracy and Human Rights	
POL SCI 101	American Government and Politics	
<b>Choose one of the following supporting courses:</b>		
POL SCI 100	Global Politics and Society	
HISTORY 103	World Civilizations I	
HISTORY 104	World Civilizations II	
<b>Choose one of the following supporting courses:</b>		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
HISTORY 207	Introduction to African-American History	
<b>Choose two of the following elective courses:</b>		
Students can also choose HISTORY 103, HISTORY 104, HISTORY 205, HISTORY 206, HISTORY 207, or POL SCI 100 in this category if not used for one of the requirements above		
ANTHRO 100	Varieties of World Culture	
DJS 200	Mentoring for Equity and Inclusion	
DJS 204	Freedom and Social Control	
PHILOS 105	Is Morality for Sale?	
GEOG 102	World Regions and Concepts: A Geographic Analysis	
SOCIOL 101	Introduction to Sociology	
WOST 201	Introduction to LGBTQ Studies	
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
<b>Choose one of the following Research Skills courses:</b>		
COMM 290	Communication Problems and Research Methods	
COMM SCI 301	Foundations for Social Research	
HISTORY 290	The Craft of History	
<b>Upper-Level Courses</b>		<b>24</b>
DJS 363	Topics in Democracy and Justice	
DJS 470	Senior Seminar in Democracy and Justice Studies	
HISTORY 353	The U.S. and the World	
POL SCI 370	Foreign and Defense Policies	
<b>Choose one of the following upper level courses:</b>		
HISTORY 356	History of Modern Africa	
POL SCI 351	Comparative Politics	
POL SCI 353	Politics of Developing Areas	
<b>Choose one of the following upper level courses:</b>		
DJS 361	Historical Perspectives on American Democracy	
POL SCI 340	Political Theory	
POL SCI 349	American Political Thought	
<b>Choose two of the following elective courses:</b>		



Students can choose HISTORY 356, POL SCI 351, or POL SCI 353 in this category if not used for requirement above	
DJS 303	Criminal Justice Process
DJS 320	Constitutional Law
DJS 330	Prison and Society
DJS 325	Law and Society
DJS 400	Mentoring for Equity and Inclusion
DJS 497	Internship
DJS 498	Independent Study
DJS 499	Travel Course
HISTORY 356	History of Modern Africa
HISTORY 370	History of Sexuality in the U.S.
HISTORY 380	U.S. Women's History
HUM STUD 360	Globalization and Cultural Conflict
HUM STUD 383	Contemporary Cultural Issues
HUM STUD 384	Topics in World Cultures
POL SCI 318	Political Behavior
POL SCI 360	International Relations
SOCIOL 303	Race and Ethnic Relations
POL SCI 361	Immigration and Immigration Policy
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
WOST 437	Feminist Theory

**Total Credits****45**

## Legal Studies

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
DJS 102	Introduction to Social Justice	
DJS 221	Law and Equality in Historical Perspective	
POL SCI 101	American Government and Politics	
<b>Choose one of the following supporting courses:</b>		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
HISTORY 207	Introduction to African-American History	
<b>Choose two of the following elective courses:</b>		<b>3</b>
Students can also choose HISTORY 205, HISTORY 206, or HISTORY 207 in this category if not used for one of the requirements above		
ANTHRO 100	Varieties of World Culture	
DJS 200	Mentoring for Equity and Inclusion	
DJS 204	Freedom and Social Control	
PHILOS 102	Contemporary Ethical Issues	
PHILOS 103	Logic and Reasoning	
PHILOS 105	Is Morality for Sale?	
POL SCI 100	Global Politics and Society	
SOCIOL 101	Introduction to Sociology	
WOST 201	Introduction to LGBTQ Studies	
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
<b>Choose one of the following Research Skills courses:</b>		<b>3</b>
COMM 290	Communication Problems and Research Methods	
COMM SCI 301	Foundations for Social Research	
HISTORY 290	The Craft of History	
<b>Upper-Level Courses</b>		<b>24</b>

DJS 320	Constitutional Law
DJS 325	Law and Society
DJS 330	Prison and Society
DJS 363	Topics in Democracy and Justice
DJS 470	Senior Seminar in Democracy and Justice Studies

**Choose one of the following upper level courses:**

DJS 361	Historical Perspectives on American Democracy
POL SCI 340	Political Theory
POL SCI 349	American Political Thought

**Choose two of the following elective courses:**

Students can also choose DJS 361, POL SCI 340 or POL SCI 349 in this category if not used to fulfill the category above

COMM 380	Communication Law
DJS 303	Criminal Justice Process
DJS 348	Gender and the Law
DJS 400	Mentoring for Equity and Inclusion
DJS 497	Internship
DJS 498	Independent Study
DJS 499	Travel Course
FNS 392	First Nations Justice and Tribal Governments
HISTORY 340	Topics in African American History
HISTORY 353	The U.S. and the World
HISTORY 356	History of Modern Africa
HISTORY 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
PHILOS 326	Philosophy, Politics and Law
POL SCI 312	Community Politics
POL SCI 318	Political Behavior
POL SCI 370	Foreign and Defense Policies
POL SCI 378	Environmental Law
SOCIOL 303	Race and Ethnic Relations
SOCIOL 307	Social Theory
SOCIOL 404	Criminology
UR RE ST 323	Asian American Communities in the United States
UR RE ST 324	Latino Communities in the United States
WOST 437	Feminist Theory

**Total Credits****51****Social Justice**

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
COMM SCI 200	Civic Scholars Practicum	
DJS 102	Introduction to Social Justice	
DJS 200	Mentoring for Equity and Inclusion	
or FNS 225	Introduction to First Nations Studies	
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
or WOST 201	Introduction to LGBTQ Studies	
<b>Choose one of the following supporting courses:</b>		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
HISTORY 207	Introduction to African-American History	
<b>Choose one of the following elective courses:</b>		

Students can choose HISTORY 205, HISTORY 206, WOST 201, or WOST 241 in this category if not used for requirement above

ANTHRO 100	Varieties of World Culture
DJS 204	Freedom and Social Control
DJS 221	Law and Equality in Historical Perspective
FNS 295	Special Topics in First Nations Studies
HISTORY 220	American Environmental History
HUM STUD 213	Ethnic Diversity in America Past and Present
PHILOS 102	Contemporary Ethical Issues
POL SCI 100	Global Politics and Society
POL SCI 101	American Government and Politics
SOCIOL 101	Introduction to Sociology
WOST 201	Introduction to LGBTQ Studies

**Choose one of the following Research Skills courses:**

**3**

COMM 290	Communication Problems and Research Methods
COMM SCI 301	Foundations for Social Research
HISTORY 290	The Craft of History

**Upper-Level Courses**

**24**

COMM SCI 497	Internship
DJS 363	Topics in Democracy and Justice
DJS 470	Senior Seminar in Democracy and Justice Studies
HISTORY 365	U.S. Labor and the Working Class: Past and Present
or HISTORY 340	Topics in African American History
WOST 437	Feminist Theory
or HISTORY 380	U.S. Women's History

**Choose one of the following upper level courses:**

DJS 361	Historical Perspectives on American Democracy
POL SCI 349	American Political Thought
POL SCI 351	Comparative Politics

**Choose two of the following elective courses:**

Students can choose DJS 361, HISTORY 340, HISTORY 365, POL SCI 340, POL SCI 349, or WOST 437 in this category if not used for requirement above

DJS 303	Criminal Justice Process
DJS 320	Constitutional Law
DJS 325	Law and Society
DJS 330	Prison and Society
DJS 400	Mentoring for Equity and Inclusion
DJS 497	Internship
DJS 498	Independent Study
DJS 499	Travel Course
FNS 360	Women and Gender in First Nations Communities
FNS 392	First Nations Justice and Tribal Governments
HISTORY 340	Topics in African American History
HISTORY 370	History of Sexuality in the U.S.
HISTORY 380	U.S. Women's History
PHILOS 326	Philosophy, Politics and Law
POL SCI 312	Community Politics
SOCIOL 303	Race and Ethnic Relations
SOCIOL 307	Social Theory
SOCIOL 315	Street Gangs in America
SOCIOL 404	Criminology
UR RE ST 323	Asian American Communities in the United States
UR RE ST 324	Latino Communities in the United States

WOST 350	Topics in Women's, Gender, and Sexuality Studies	
<b>Total Credits</b>		<b>48</b>

## Social Studies Education

Code	Title	Credits
<b>Supporting Courses</b>		<b>15</b>
DJS 102	Introduction to Social Justice	
HISTORY 207	Introduction to African-American History	
POL SCI 101	American Government and Politics	
<b>Choose one:</b>		
HISTORY 101	Foundations of Western Culture I	
HISTORY 102	Foundations of Western Culture II	
HISTORY 103	World Civilizations I	
HISTORY 104	World Civilizations II	
POL SCI 100	Global Politics and Society	
FNS 374	Wisconsin First Nations History	
<b>Choose one:</b>		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
<b>Quantitative (Licensure Requirement): Choose one:</b>		<b>3</b>
PSYCH 205	Social Science Statistics	
MATH 100	Math Appreciation	
MATH 101	Advanced Algebra	
<b>Required Content Classes</b>		<b>15</b>
FNS 225	Introduction to First Nations Studies	
HISTORY 365	U.S. Labor and the Working Class: Past and Present	
POL SCI 406	State and Local Government	
<b>Choose one:</b>		
HISTORY 423	Topics in Modern European History (Holocaust)	
HISTORY 333	Europe in the 20th Century	
DJS 333	Area Studies in Democracy and Justice	
DJS 363	Topics in Democracy and Justice (The US and Genocide)	
POL SCI 351	Comparative Politics	
<b>Choose one:</b>		
HISTORY 220	American Environmental History	
HISTORY 326	Global Environmental History	
POL SCI 380	Global Environmental Politics and Policy	
PUB ADM 301	Environmental Politics and Policy	
<b>Broadfield Requirements</b>		<b>12</b>
<b>Choose one:</b>		
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
<b>Choose one:</b>		
PSYCH 102	Introduction to Psychology	
PSYCH 203	Introduction to Lifespan Development	
<b>Choose one:</b>		
SOCIOL 101	Introduction to Sociology	
SOCIOL 203	Ethnic and Racial Identities	
SOCIOL 238	Sociological Perspectives on Gender	
<b>Choose one:</b>		
FNS 216	Native American Landscapes: Imagined and Lived Spaces	
GEOG class at 200 level or higher		

<b>Capstone Requirement</b>	<b>3</b>
DJS 470	Senior Seminar in Democracy and Justice Studies
<b>Total Credits</b>	<b>48</b>

## Digital Marketing

The Digital Marketing Minor at UW-Green Bay's Cofrin School of Business is designed to equip students with the essential skills and knowledge to navigate the rapidly evolving digital landscape. This program emphasizes the integration of traditional marketing principles with modern digital strategies, preparing students to effectively engage with consumers in an increasingly online world.

Students begin by building a solid foundation in marketing, digital marketing, consumer behavior, and social media marketing and analytics. This foundational knowledge is crucial for understanding how digital platforms influence consumer decisions and how businesses can leverage these platforms to achieve their marketing objectives.

To tailor their learning experience, students select elective courses that delve into areas such as data science for managers, business analytics, data visualization and storytelling, and research methods. This flexibility allows students to align their studies with specific career aspirations, whether they aim to specialize in data-driven marketing strategies, content creation, or digital campaign management.

The program places a strong emphasis on practical application, ensuring that students not only understand theoretical concepts but also gain hands-on experience with digital tools and platforms. This approach prepares graduates to design and implement effective digital marketing campaigns, analyze consumer data, and adapt to the ever-changing digital environment.

By completing the Digital Marketing Minor, students enhance their career prospects in various fields, including digital marketing, social media management, content creation, and market research. The comprehensive curriculum ensures that graduates are well-equipped to contribute to the digital strategies of diverse organizations, from startups to established enterprises.

## Minor

Code	Title	Credits
<b>Core Courses</b>		<b>12</b>
MKTG 322	Principles of Marketing	
MKTG 345	Digital Marketing	
MKTG 428	Consumer Behavior	
MKTG 447	Social Media Marketing and Analytics	
<b>Elective Courses (choose 2):</b>		<b>6</b>
BUSAN 370	Data Science for Managers	
BUSAN 452	Business Analytics	
BUSAN 464	Data Visualization and Storytelling	
MKTG 424	Research Methods	
<b>Total Credits</b>		<b>18</b>

## Faculty

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

**Allen Huffcutt**; Professor; Ph.D., Texas AM University\*

**Sampath Kumar**; Professor; Ph.D., University of Memphis, chair\*

**Aniruddha Pangarkar**; Associate Professor; Ph.D., Texas Tech University\*

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

**Md Tarique Newaz**; Assistant Professor; Ph.D., Texas Tech University\*

**Susan Craver**; Assistant Teaching Professor; M.B.A., University of Wisconsin - Madison

**Anup Nair**; Assistant Teaching Professor; M.B.A., Birla Institute of Technology and Science (India)

**Dylan Polkinghorne**; Assistant Teaching Professor; M.S., University of Wisconsin - Green Bay

## Economics

Economics underlies everything we do in societies around the globe. Given its focus on the allocation of scarce resources among competing desires, economics will always be critical for citizens to understand, regardless of the form or structure of the social institutions under which these individuals live. Those who study economics will develop a skill set that is useful in business, nonprofit, and governmental organizations. Graduates will be better able to function as individual decision-makers within our complex, interrelated society; they will be enabled as critical thinkers and socially responsible citizens.

Students who minor in Economics receive training in quantitative methods, economic theory, business decision making, and applied economic analysis. Students can tailor their academic programs to fit their strengths, interests, and career goals. With appropriate program planning, graduates can also take an array of courses allowing them to obtain teaching certification at the secondary school level. Students seeking information on teacher certification should contact the Education Office.

The training received by Economics students in incentive-based decision making creates a variety of career opportunities. Economics minors enter careers in business, government, and nonprofit organizations. Individuals trained in economics are often employed by banks, investment firms, government agencies, market research firms, insurance companies, management consulting, advertising agencies, labor unions, and as private entrepreneurs. Others develop careers in real estate, land use planning, financial planning, credit and debt collection, statistical and systems analysis, politics, and public administration. Some graduates go on to further studies in graduate schools, where they receive advanced training in such fields as business, economics, law, public policy, and urban studies.

### Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
ECON 210	Quantitative Methods for Economics and Business	
<b>Upper-Level Courses</b>		<b>12</b>
ECON 302	Intermediate Macro Economic Theory	
ECON 303	Intermediate Micro Economic Theory	
ECON 305	Environmental Economics	
ECON 330	Money, Banking and Financial Markets	
<b>Total Credits</b>		<b>21</b>

### Faculty

**Rasoul Rezvanian**; Professor; Ph.D., Southern Illinois University

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

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

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

**Zhuoli Axelton**; Assistant Professor; Ph.D., Washington State University

**Preston Cherry**; Assistant Professor; Ph.D., Texas Tech University

**Heather Kaminski**; Assistant Professor; D.B.A., Anderson University

**Eu Jin Kwak**; Assistant Professor; Ph.D., University of Georgia\*

**Grace (Fangjun) Sang**; Assistant Professor; Ph.D., Kent State

**Kevin Jaklin**; Assistant Teaching Professor; M.B.A., University of Wisconsin - Oshkosh, chair

## 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.

Students seeking an elementary to middle school license (Grades K through 9) will complete a major in Education. Graduates seeking this license will receive a bachelor's degree in Education.

Students who desire secondary-level teaching licensure (Grades 4 through 12 or 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). One exception is science, which has an emphasis within the Education major.

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:

- Elementary and Middle School (Grades K through 9)
- Middle and High School (Grades 4 through 12)
- Grades Kindergarten through 12 (All Grade levels)

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**

Students majoring in Education are not required to complete an academic minor to be endorsed for a license to teach Grades K through 9. 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 (with the exception of science). 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 (<https://www.uwgb.edu/education/degree-path/admissions/>).
4. Complete EDUC 208, FNS 211 or DJS 200 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 will receive final admission to the program. A committee of Education program faculty members reviews candidates 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 and EDUC 291 with a grade of B or better.
3. Submit the K-12 Teacher Recommendation Form to the Education Program Office.
4. Submit the UW-Green Bay Instructor Recommendation Form to the Education Office.

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

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

Requirements for participation include:

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

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

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

#### **Teacher Licensing Requirements and Preparation**

Students planning to pursue a teaching license should contact the Education Program Office, (920) 465-2137. Teacher licensing requirements are very specific and require ample credit hours. Also, Department of Public Instruction requirements change from time-to-time, making program requirements subject to change. Students must meet any new requirements before a license will be awarded. Students are responsible for being aware of current licensure requirements.

In addition to the requirements listed here, there are regulations about time limits, grade point averages, test scores and other program completion requirements. Credit hours necessary to fulfill the requirements for specific licenses vary, depending upon the major and/or minor selected, age level licensure sought, and other factors. The Education Office can provide specific requirements.

Individuals who already hold a bachelor's degree and are interested in pursuing a teaching license should contact the Education Office regarding special requirements that apply to them.

Following are summaries of academic program components required for each of the three teaching licenses offered at UW-Green Bay. A detailed listing of specific licensure requirements can be obtained from the Education Program Office.

#### **Elementary and Middle School (Grades K through 9)**



- UW-Green Bay general education requirements
- Interdisciplinary major in Education
- Professional education course sequence
- Student teaching

### **Middle and High School (Grades 4 through 12)**

- UW-Green Bay general education requirements
- Content area major (except for science)
- Interdisciplinary minor in Education (except for science)
- Professional education course sequence
- Student teaching

### **Kindergarten through Grades 12 (All Grade Levels)**

- 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 <https://www.uwgb.edu/international-education/>.

### **Programmatic Outcomes**

#### **Standard 1: Pupil Development**

The teacher understands how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.

#### **Standard 2: Learning Differences**

The teacher uses his or her understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.

#### **Standard 3: Learning Environments**

The teacher works with others to create environments that support individual and collaborative learning, and that encourage positive social interaction, active engagement in learning, and self-motivation.

#### **Standard 4: Content Knowledge**

The teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and creates learning experiences that make the discipline accessible and meaningful for learners to assure mastery of the content.

#### **Standard 5: Application of Content**

The teacher understands how to connect concepts and use differing perspectives to engage learners in critical thinking, creativity, and collaborative problem solving related to authentic local and global issues.

#### **Standard 6: Assessment**

The teacher understands and uses multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and learner's decision making.

#### **Standard 7: Planning for Instruction**

The teacher plans instruction that supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of learners and the community context.

#### Standard 8: Instructional Strategies

The teacher understands and uses a variety of instructional strategies to encourage learners to develop deep understanding of content areas and their connections, and to build skills to apply knowledge in meaningful ways.

#### Standard 9: Professional Learning and Ethical Practice

The teacher engages in ongoing professional learning and uses evidence to continually evaluate his/her practice, particularly the effects of his/her choices and actions on others (learners, families, other professionals, and the community), and adapts practice to meet the needs of each learner.

#### Standard 10: Leadership and Collaboration

The teacher seeks appropriate leadership roles and opportunities to take responsibility for student learning, to collaborate with learners, families, colleagues and other school professionals, and community members to ensure learner growth, and to advance the profession.

## Major Area of Emphasis (p. 138)

Students must complete requirements in one of the following areas of emphasis: (p. 138)

- English as a Second Language, Gr. PK-12 (p. 138)
- Elementary and Middle School; Grades K-9 (p. 138)
- Science Education (p. 138)
- Accelerated - Integrated with graduate Applied Leadership for Teaching and Learning program (p. 138)

## Minor Area of Emphasis (p. 142)

Students must complete requirements in one of the following areas of emphasis: (p. 142)

- English as a Second Language, Gr. PK-12 (p. 142)
- Teaching Mathematics, Grades 4-12 (p. 142)
- Teaching Music, Art or World Languages, Gr. PK-12 (p. 142)
- Teaching Social Studies or ELA, Gr. 4-12 (p. 142)

## Faculty

**Mary Sue Lavin**; Director of Phuture Phoenix; M.A., Marian University

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

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

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

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

**Samantha Meister**; Associate Professor; Ph.D., Texas AM University\*

**Jennie Lambrecht**; Associate Teaching Professor; M.Ed., Lesley University

**Shara Cherniak**; Assistant Teaching Professor; Ph.D., University of Georgia

## Education Major

### Area of Emphasis

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

- Elementary and Middle School; Grades K-9
- English as a Second Language, Gr. PK-12
- Science Education

- Accelerated - Integrated with graduate Applied Leadership for Teaching and Learning program

## Elementary and Middle School; Grades K-9

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
EDUC 206	Culturally Responsive Teaching and Learning	
EDUC 210	Foundations of Literacy	
EDUC 281	Conceptual Foundations of Elementary Mathematics I	
EDUC 282	Conceptual Foundations of Elementary Mathematics II	
EDUC 284	Fundamentals of Algebra, Geometry and Measurement for Teaching	
EDUC 290	Introduction to Educational Inquiry	
EDUC 291	Educational Inquiry Field Practicum	
<b>Choose One of the Following:</b>		<b>3</b>
EDUC 208	Concepts, Issues, and Field Experience in Education	
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	
DJS 200	Mentoring for Equity and Inclusion	
<b>Upper-Level Courses</b>		<b>48</b>
EDUC 302	Teaching Social Studies in Elementary and Middle Schools	
EDUC 307	Teaching Reading in the Elementary and Middle Schools	
EDUC 309	Teaching Language Arts in the Elementary and Middle Schools	
EDUC 324	Teaching Mathematics in the Elementary and Middle Schools	
EDUC 325	Teaching Science in the Elementary and Middle Schools	
EDUC 326	Music, Movement and Core Arts Pedagogy	
EDUC 327	Supporting Multilingual Learners in the PK-12 Classroom	
EDUC 333	Curriculum & Assessment	
EDUC 340	Supporting Learning and Behavior in the Classroom	
EDUC 345	Foundations of Special Education	
EDUC 351	Field Project in School Settings (Math topic for 3 credits)	
EDUC 351	Field Project in School Settings (Literacy topic for 3 credits)	
EDUC 352	Social and Family Influences on Development and Learning	
EDUC 361	Introduction to the Art and Science of Teaching	
EDUC 444	Current Trends in Education	
EDUC 452	Principles of Middle Level Education	
<b>Total Credits</b>		<b>72</b>

## English as a Second Language, Gr. PK-12

Code	Title	Credits
<b>Supporting Courses:</b>		<b>15</b>
EDUC 206	Culturally Responsive Teaching and Learning (Supporting Courses:)	
EDUC 210	Foundations of Literacy	
EDUC 290	Introduction to Educational Inquiry	
EDUC 291	Educational Inquiry Field Practicum	
<b>Choose One of the Following:</b>		
EDUC 208	Concepts, Issues, and Field Experience in Education	
DJS 200	Mentoring for Equity and Inclusion	
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	
<b>Upper Level Courses</b>		<b>37</b>
EDUC 333	Curriculum & Assessment	
EDUC 352	Social and Family Influences on Development and Learning	
EDUC 340	Supporting Learning and Behavior in the Classroom	
EDUC 345	Foundations of Special Education	

EDUC 361	Introduction to the Art and Science of Teaching
EDUC 452	Principles of Middle Level Education
<b>ESL Specific Courses</b>	
EDUC 315	Teaching English as a Second Language
EDUC 327	Supporting Multilingual Learners in the PK-12 Classroom
EDUC 328	Disciplinary Language and Literacy
EDUC 350	Field Experience in Teaching Methods
HUM STUD 319	Second Language Acquisition & Assessment
HUM STUD 321	Sociolinguistics
<b>Cross Cultural Awareness (choose one):</b>	
SOCIOL 323	Asian American Communities in the United States
SOCIOL 324	Latino Communities in the United States
SPANISH 357	Cultura Latina
SPANISH 373	Spanish in the US
<b>Total Credits</b>	

52

## Science Education

Code	Title	Credits
<b>Lower-Level Courses</b>		<b>59</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203	Principles of Biology: Organisms and Evolution	
BIOLOGY 204	Principles of Biology Lab: Organisms and Evolution	
CHEM 207	Laboratory Safety	
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	Principles of Chemistry II Laboratory	
EDUC 206	Culturally Responsive Teaching and Learning	
EDUC 290	Introduction to Educational Inquiry	
EDUC 291	Educational Inquiry Field Practicum	
ET 101	Fundamentals of Engineering Technology	
GEOSCI 202	Physical Geology	
GEOSCI 203	Earth System History	
GEOSCI 222	Introduction to Weather & Climate	
<b>Physics (10 credits): Choose either</b>		
PHYSICS 103 & PHYSICS 104	Fundamentals of Physics I and Fundamentals of Physics II	
<b>OR</b>		
PHYSICS 201 & PHYSICS 202	Principles of Physics I and Principles of Physics II	
PHYSICS 203	Introductory Physics Lab I	
PHYSICS 204	Introductory Physics Lab II	
<b>Engineering (choose 6 credits):</b>		
ET 201	Introduction to Environmental Engineering	
ET 203	Introduction to Water and Waste Water	
ET 330	Hydrology	
ET 415	Solar and Alternate Energy Systems	
ENGR 202	An Introduction to Smart Cities	
ENGR 260	Introduction to Engineering Ethics	
<b>Choose One of the Following:</b>		
EDUC 208	Concepts, Issues, and Field Experience in Education	

DJS 200	Mentoring for Equity and Inclusion	
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	
<b>Upper-Level Courses</b>		<b>28</b>
EDUC 318	Cross-Curricular Methods in Middle and Secondary Schools	
EDUC 327	Supporting Multilingual Learners in the PK-12 Classroom	
EDUC 340	Supporting Learning and Behavior in the Classroom	
EDUC 345	Foundations of Special Education	
EDUC 350	Field Experience in Teaching Methods	
EDUC 361	Introduction to the Art and Science of Teaching	
EDUC 422	Reading in the Content Areas	
EDUC 452	Principles of Middle Level Education	
Select six upper level (300 or 400 level) science credits with the same prefix (BIOLOGY, CHEM, ENV SCI, GEOSCI, HUM BIOL, PHYSICS, or WATER)		
<b>Total Credits</b>		<b>87</b>

## Accelerated - Integrated with graduate Applied Leadership for Teaching and Learning program

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

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

Requirements for participation include:

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

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

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
EDUC 206	Culturally Responsive Teaching and Learning	
EDUC 210	Foundations of Literacy	
EDUC 281	Conceptual Foundations of Elementary Mathematics I	
EDUC 282	Conceptual Foundations of Elementary Mathematics II	
EDUC 284	Fundamentals of Algebra, Geometry and Measurement for Teaching	
EDUC 290	Introduction to Educational Inquiry	
EDUC 291	Educational Inquiry Field Practicum	
<b>Choose One of the Following:</b>		<b>3</b>
EDUC 208	Concepts, Issues, and Field Experience in Education	
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	
DJS 200	Mentoring for Equity and Inclusion	
<b>Upper-Level Courses</b>		<b>48</b>
EDUC 302	Teaching Social Studies in Elementary and Middle Schools	
EDUC 307	Teaching Reading in the Elementary and Middle Schools	
EDUC 309	Teaching Language Arts in the Elementary and Middle Schools	
EDUC 324	Teaching Mathematics in the Elementary and Middle Schools	
EDUC 325	Teaching Science in the Elementary and Middle Schools	
EDUC 326	Music, Movement and Core Arts Pedagogy	
EDUC 327	Supporting Multilingual Learners in the PK-12 Classroom	

EDUC 333 or EDUC 540	Curriculum & Assessment <sup>1</sup> Curriculum, Instruction, and Independence Skills for Students with Low Incidence Disabilities
EDUC 340 or EDUC 547	Supporting Learning and Behavior in the Classroom Classroom Management and Behavior Supports for the Inclusive Classroom
EDUC 345/545	Foundations of Special Education <sup>1</sup>
EDUC 351	Field Project in School Settings (Math topic for 3 credits)
EDUC 351	Field Project in School Settings (Literacy topic for 3 credits)
EDUC 352/552 or EDUC 546	Social and Family Influences on Development and Learning <sup>1</sup> Collaboration and Transition: Home, School, Community Connections
EDUC 361	Introduction to the Art and Science of Teaching
EDUC 444/644	Current Trends in Education <sup>1</sup>
EDUC 452/652	Principles of Middle Level Education <sup>1</sup>

**Total Credits****72**

<sup>1</sup> Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the Education office or refer to the graduate catalog (<http://catalog.uwgb.edu/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated/>).

## Education Minor

### Minor Area of Emphasis

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

- English as a Second Language, Gr. PK-12
- Teaching Mathematics, Grades 4-12
- Teaching Music, Art or World Languages, Gr. PK-12
- Teaching Social Studies or ELA, Gr. 4-12

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

### English as Second Language, Gr. PK-12

Code	Title	Credits
<b>Supporting Courses:</b>		<b>12</b>
EDUC 206	Culturally Responsive Teaching and Learning	
EDUC 290	Introduction to Educational Inquiry	
EDUC 291	Educational Inquiry Field Practicum	
<b>Choose One of the Following:</b>		
EDUC 208	Concepts, Issues, and Field Experience in Education	
DJS 200	Mentoring for Equity and Inclusion	
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	
<b>Upper Level Courses</b>		<b>22</b>
EDUC 340	Supporting Learning and Behavior in the Classroom	
EDUC 361	Introduction to the Art and Science of Teaching	
EDUC 452	Principles of Middle Level Education	
<b>ESL Specific Courses</b>		
EDUC 315	Teaching English as a Second Language	
EDUC 327	Supporting Multilingual Learners in the PK-12 Classroom	
EDUC 328	Disciplinary Language and Literacy	
EDUC 350	Field Experience in Teaching Methods	
HUM STUD 319	Second Language Acquisition & Assessment	
HUM STUD 321	Sociolinguistics	

**Total Credits****34**

## Teaching Mathematics, Grades 4-12

Code	Title	Credits
<b>Supporting Courses:</b>		<b>12</b>
EDUC 206	Culturally Responsive Teaching and Learning	
EDUC 284	Fundamentals of Algebra, Geometry and Measurement for Teaching	
EDUC 290	Introduction to Educational Inquiry	
EDUC 291	Educational Inquiry Field Practicum	
<b>Choose one course:</b>		<b>3</b>
EDUC 208	Concepts, Issues, and Field Experience in Education	
DJS 200	Mentoring for Equity and Inclusion	
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	
<b>Upper Level Courses</b>		<b>16</b>
EDUC 318	Cross-Curricular Methods in Middle and Secondary Schools	
EDUC 340	Supporting Learning and Behavior in the Classroom	
EDUC 350	Field Experience in Teaching Methods	
EDUC 361	Introduction to the Art and Science of Teaching	
EDUC 422	Reading in the Content Areas	
EDUC 452	Principles of Middle Level Education	
<b>Total Credits</b>		<b>31</b>

## Teaching Music, Art or World Languages, Gr. PK-12

Code	Title	Credits
<b>Supporting Courses:</b>		<b>14-16</b>
EDUC 206	Culturally Responsive Teaching and Learning	
EDUC 290	Introduction to Educational Inquiry	
EDUC 291	Educational Inquiry Field Practicum	
<b>Choose one of the Following:</b>		
EDUC 208	Concepts, Issues, and Field Experience in Education	
DJS 200	Mentoring for Equity and Inclusion	
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	
<b>Choose one course: <sup>1</sup></b>		
MATH 100	Math Appreciation	
MATH 101	Advanced Algebra	
PSYCH 205	Social Science Statistics	
<b>Upper -Level Courses</b>		<b>16</b>
EDUC 340	Supporting Learning and Behavior in the Classroom	
EDUC 350	Field Experience in Teaching Methods	
EDUC 361	Introduction to the Art and Science of Teaching	
EDUC 422	Reading in the Content Areas	
EDUC 452	Principles of Middle Level Education <sup>2</sup>	
or EDUC 334	Teaching General Music in the Elementary and Middle Schools	
<b>Choose one of the following courses as appropriate:</b>		
EDUC 311	Teaching World Languages	
EDUC 317	Teaching Music in the Middle and Secondary Schools	
EDUC 318	Cross-Curricular Methods in Middle and Secondary Schools	
<b>Total Credits</b>		<b>30-32</b>

<sup>1</sup> This requirement can be waived with a Wisconsin Math Placement Test score of MATH 101 or greater.

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

## Teaching Social Studies or ELA, Gr. 4-12

Code	Title	Credits
<b>Supporting Courses:</b>		<b>9</b>
EDUC 206	Culturally Responsive Teaching and Learning (Supporting Courses:)	
EDUC 290	Introduction to Educational Inquiry	
EDUC 291	Educational Inquiry Field Practicum (Supporting Courses:)	
<b>Choose one of the following:</b>		<b>3</b>
EDUC 208	Concepts, Issues, and Field Experience in Education	
DJS 200	Mentoring for Equity and Inclusion	
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	
<b>Choose One course:</b>		<b>2-4</b>
MATH 100	Math Appreciation	
MATH 101	Advanced Algebra	
PSYCH 205	Social Science Statistics	
<b>Upper Level Courses</b>		<b>13</b>
EDUC 340	Supporting Learning and Behavior in the Classroom	
EDUC 350	Field Experience in Teaching Methods	
EDUC 361	Introduction to the Art and Science of Teaching	
EDUC 422	Reading in the Content Areas	
EDUC 452	Principles of Middle Level Education	
<b>Choose one of the Following as Appropriate:</b>		<b>3</b>
EDUC 310	Teaching Communication Arts in the Middle and Secondary Schools	
EDUC 312	Teaching Social Studies in the Middle and Secondary Schools	
<b>Total Credits</b>		<b>30-32</b>

Course List

## Electrical Engineering

(Bachelor of Science)

### UW-Green Bay Engineering

One of the fastest-growing regions in the state and the Midwest for engineering jobs, Northeast Wisconsin will see tremendous growth in the need for and recruitment of new engineers. This region has the most open positions for engineers in the state and has seen an 18% increase in demand for engineers since 2010. Engineering as a career focuses on theoretical aspects of mathematical, scientific and engineering principals. New professionals with a Bachelor of Science in Electrical Engineering from UW-Green Bay will be perfectly-timed and well-prepared to meet the swell in demand for engineers, leading to high-paying, rewarding careers in some of the region's most sought after employers.

### Electrical Engineering

The University of Wisconsin-Green Bay is proud to announce the newest engineering program in Northeast Wisconsin, the Electrical Engineering program. Part of the College of Science, Engineering and Technology (CSET) and offered through the Richard J. Resch School of Engineering (RSE), the Bachelor of Science (B.S.) in Electrical Engineering is designed as a cutting-edge program that will offer students individualized attention from award-winning professors, a hands-on education with state-of-the-art equipment, and opportunities for research and internships with some of the largest companies and employers in the region.

Electrical engineering is the application of scientific and mathematical principles to the design, manufacture, and control of structures, machines, processes, and systems. In the past, the work of electrical engineers has had a direct and vital impact on people's lives. Electrical engineers have been responsible for the creation of electric power, modern electronics, computers, electronic communication systems, modern flight controllers, automated manufacturing, and medical diagnostic tools. An electrical engineering education continues to provide opportunities for solving problems of great social significance and for increasing people's quality of life. The electrical engineering program spans the disciplines of electronics, computers, circuits, electromagnetic fields, power systems, controls, communications, and signal processing.

Students will benefit from relationships with local technical colleges, and local industry to complete a B.S. in engineering in the Northeast Wisconsin area. Students may start earning their degree at UW-Green Bay or local technical colleges to give maximum flexibility in degree completion. In addition, the Northeast Wisconsin Educational Resource Alliance, NEW ERA, has established advisory boards linking leaders in regional industry and participating



institutions to the major. Through these relationships students will have many opportunities for internships, co-op experiences, and employment after graduation.

## Contact

For more information contact:

Jagadeep Thota, Ph.D.  
Chair, Engineering  
Phone: 920-465-2817  
Email: thotaj@uwgb.edu

or

Patricia Terry, Ph.D.  
Chair, Richard J. Resch School of Engineering  
Phone: 920-465-2749  
Email: terryp@uwgb.edu

## Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>38-44</b>
ENGR 236	Technical Writing and Information Literacy	
ET 105	Fundamentals of Drawing	
ET 142	Introduction to Programming	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
MATH 305	Ordinary Differential Equations	
PHYSICS 201	Principles of Physics I	
PHYSICS 203	Introductory Physics Lab I	
<b>Chemistry (choose one option):</b>		
CHEM 211 & CHEM 212 & CHEM 213 & CHEM 214 or ME 206	Principles of Chemistry I and Principles of Chemistry II and Principles of Chemistry I Laboratory and Principles of Chemistry II Laboratory Chemistry for Engineers	
<b>Fundamental Courses</b>		<b>22</b>
ENGR 120	Electrical Circuits I	
ENGR 121	Electrical Circuits I Lab	
ENGR 210	Electrical Circuits II	
ENGR 211	Electrical Circuits II Lab	
ENGR 222	Electronic Devices	
ENGR 223	Electronic Devices Lab	
ENGR 224	Electrical Codes, Safety, and Standards	
ENGR 320	Energy Conversion	
ENGR 321	Energy Conversion Lab	
ENGR 328	Microcontrollers and Programmable Logic Controllers	
ENGR 329	Microcontrollers and Programmable Logic Controllers Lab	
<b>Advanced Courses</b>		<b>20</b>
ENGR 310	Digital Logic Design	
ENGR 311	Digital Logic Design Lab	
ENGR 342	Signals and Systems	
ENGR 343	Signals and Systems Lab	
ENGR 346	Electrical Power Systems	

ENGR 348	Electromagnetic Fields and Applications	
ENGR 412	Communications Systems	
ENGR 434	Power Electronics	
<b>Capstone Requirement</b>		<b>3</b>
ENGR 462	Senior Design Project	
<b>Technical Electives (choose four courses):</b>		<b>12</b>
ET 342	Supervisory Control and Data Acquisition	
ET 400	Co-op/Internship in Engineering Technology	
or ENGR 494	Co-op	
ET 415	Solar and Alternate Energy Systems	
ENGR 334	Industrial Decision Processes	
or ET 360	Project Management	
ENGR 402	Smart Cities: Engineering the Future	
ENGR 414	Power System Analysis and Protection	
ENGR 426	Wireless Communications	
ENGR 428	Wireless Networks	
ENGR 438	Microprocessors and Embedded Systems	
ENGR 493	Special Topics in Electrical Engineering	
ENGR 498	Independent Study	
<b>Total Credits</b>		<b>95-101</b>

## Curriculum Guide

The following curriculum guide is for a four-year **Electrical Engineering** degree program and is subject to change without notice. Students should consult their program advisor to ensure that they have the most accurate and up-to-date information available.

Total **125** credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
MATH 202	Calculus and Analytic Geometry I	4
ET 105	Fundamentals of Drawing	3
First Year Seminar (FYS)		3
General Education		3
General Education		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MATH 203	Calculus and Analytic Geometry II	4
ENGR 120	Electrical Circuits I	3
ENGR 121	Electrical Circuits I Lab	1
ET 142	Introduction to Programming	3
General Education		3
<b>Credits</b>		<b>14</b>
<b>Sophomore</b>		
<b>Fall</b>		
MATH 209	Multivariate Calculus	4
PHYSICS 201 & PHYSICS 203	Principles of Physics I and Introductory Physics Lab I	5
ME 206	Chemistry for Engineers	4
ENGR 210	Electrical Circuits II	3
ENGR 211	Electrical Circuits II Lab	1
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
MATH 260	Introductory Statistics	4
ENGR 222	Electronic Devices	3
ENGR 223	Electronic Devices Lab	1
ENGR 224	Electrical Codes, Safety, and Standards	2
ENGR 320	Energy Conversion	3

ENGR 321	Energy Conversion Lab	1
ENGR 236	Technical Writing and Information Literacy	3
<b>Credits</b>		<b>17</b>
<b>Junior</b>		
<b>Fall</b>		
MATH 305	Ordinary Differential Equations	4
ENGR 310	Digital Logic Design	3
ENGR 311	Digital Logic Design Lab	1
ENGR 342	Signals and Systems	3
ENGR 343	Signals and Systems Lab	1
ENGR 348	Electromagnetic Fields and Applications	3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ENGR 328	Microcontrollers and Programmable Logic Controllers	3
ENGR 329	Microcontrollers and Programmable Logic Controllers Lab	1
ENGR 346	Electrical Power Systems	3
ENGR 434	Power Electronics	3
General Education		3
General Education		3
<b>Credits</b>		<b>16</b>
<b>Senior</b>		
<b>Fall</b>		
ENGR 412	Communications Systems	3
ENGR 462	Senior Design Project	3
Technical Elective I		3
Technical Elective II		3
General Education		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
Technical Elective III		3
Technical Elective IV		3
General Education		3
General Education		3
General Education		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>125</b>

Technical Electives (choose any four):

1. ET 342 Supervisory Control and Data Acquisition (3 s.h.)
2. ET 400 Co-op/Internship in Engineering Technology (3 s.h.) or ENGR 494 Co-op (1-2 s.h.)
3. ET 415 Solar and Alternate Energy Systems (3 s.h.)
4. ET 360 Project Management (3 s.h.) or ME 334 Industrial Decision Processes (3 s.h.)
5. ENGR 402 Smart Cities: Engineering the Future (3 s.h.)
6. ENGR 414 Power System Analysis and Protection (3 s.h.)
7. ENGR 426 Wireless Communications (3 s.h.)
8. ENGR 428 Wireless Networks (3 s.h.)
9. ENGR 438 Microprocessors and Embedded Systems (3 s.h.)
10. ENGR 493 Special Topics in Electrical Engineering (3 s.h.)
11. ENGR 498 Independent Study (1-4 s.h.)

## Faculty

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

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

**Elie Atallah**; Assistant Professor; Ph.D., University of Central Florida

**Rojba Yasmin**; Assistant Professor; Ph.D., University of Memphis

**Taskia Ahammad Khan**; Associate Teaching Professor; M.S., Bradley University

# Electrical Engineering Technology

(Bachelor of Science)

## Accreditation

The Electrical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, [www.abet.org](http://www.abet.org).

## UW-Green Bay Engineering Technology

Combine hands-on learning with academic coursework and get ready for high-demand jobs in the growing field of engineering technology. The University partners with regional leaders and technical colleges so that you will be prepared for an ever-changing industry. Get the technical skills that will make you an expert and the critical-thinking skills that will make you indispensable.

## Engineering Technology Programs Mission

All of the Engineering Technology programs (Electrical, Mechanical and Environmental) 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

Electrical engineering technology (EET) is the field that implements and applies principles of electrical engineering. With a greater focus on application and implementation, electrical engineering technologists help design, develop, test, and manufacture electrical and electronic equipment such as communication equipment, radar and industrial systems, medical monitoring equipment, control devices, and computer technology. As the largest branch of engineering technology, it includes a diverse range of disciplines including electronics, embedded systems, control systems, instrumentation, telecommunications, and power systems.

The Bachelor of Science (B.S.) degree in Electrical Engineering Technology at UW-Green Bay is a professional program that prepares students for careers in electrical engineering technology with the technical and managerial skills necessary to enter careers in the design application, installation, manufacturing, operation, and maintenance of electrical systems. Students specialize in product improvement, manufacturing, construction, and operational engineering functions. The focus of the program is the application of engineering principles to the solution of practical problems. Students will develop skills in hands on application labs and courses that explore the fundamentals of electronics, mathematics, physics, computers, and control systems. Teamwork, technical writing, and project management are also emphasized throughout the curriculum. The goal of the major is to develop well rounded engineering technologists that can adapt and succeed in a highly competitive workplace.

Students will benefit from relationships with local technical colleges, and local industry to complete a B.S. in engineering technology in the Northeast Wisconsin area. Students may start earning their degree at UW-Green Bay or local technical colleges to give maximum flexibility in degree completion. In addition, the Northeast Wisconsin Educational Resource Alliance, NEW ERA, has established advisory boards linking leaders in regional industry and participating institutions to the major. Through these relationships students will have many opportunities for internships, co-op experiences, and employment after graduation.

## Electrical Engineering Technology Program Learning Outcomes

1. Program graduates will secure and maintain employment in appropriate EET positions industry-wide and perform all functions assigned to an electrical engineering technologist.
2. Graduates will apply their knowledge of mathematics, science, engineering technology, and computing to identify, analyze, and solve problems pertaining to design, development, and implementation of electronic systems.
3. Graduates will exhibit a desire for life-long learning through higher education, technical training, teaching, membership in professional societies, and other developmental activities and will achieve positions of increased responsibility through these activities.
4. Graduates will demonstrate high levels of oral and written communication skills, critical thinking, responsibility and ethical behavior, teamwork and appreciation for diversity, and leadership in their careers.

## Contact

For more information contact:

Jagadeep Thota, Ph.D.  
Chair, Engineering  
Phone: 920-465-2817  
Email: [thotaj@uwgb.edu](mailto:thotaj@uwgb.edu)

or

Patricia Terry, Ph.D.  
 Chair, Richard J. Resch School of Engineering  
 Phone: 920-465-2749  
 Email: terryp@uwgb.edu

## Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>25</b>
ENGR 236	Technical Writing and Information Literacy	
ET 101	Fundamentals of Engineering Technology	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
ME 206	Chemistry for Engineers	
MET 105	Fundamentals of Drawing	
<b>Physics (choose one option):</b>		
PHYSICS 103 & PHYSICS 203	Fundamentals of Physics I and Introductory Physics Lab I	
PHYSICS 201 & PHYSICS 203	Principles of Physics I and Introductory Physics Lab I	
<b>Fundamentals Courses</b>		<b>17</b>
ENGR 120	Electrical Circuits I	
ENGR 121	Electrical Circuits I Lab	
ENGR 210	Electrical Circuits II	
ENGR 211	Electrical Circuits II Lab	
ENGR 222	Electronic Devices	
ENGR 223	Electronic Devices Lab	
ENGR 224	Electrical Codes, Safety, and Standards	
ET 142	Introduction to Programming	
<b>Upper-Level Courses</b>		
<b>Supporting Courses</b>		<b>4</b>
MATH 320	Linear Algebra and Matrix Theory	
<b>Fundamental Courses</b>		<b>8</b>
ENGR 320	Energy Conversion	
ENGR 321	Energy Conversion Lab	
ENGR 328	Microcontrollers and Programmable Logic Controllers	
ENGR 329	Microcontrollers and Programmable Logic Controllers Lab	
<b>Advanced Courses</b>		<b>29</b>
ENGR 310	Digital Logic Design	
ENGR 311	Digital Logic Design Lab	
ENGR 342	Signals and Systems	
ENGR 343	Signals and Systems Lab	
ENGR 346	Electrical Power Systems	
ENGR 348	Electromagnetic Fields and Applications	
ENGR 434	Power Electronics	
ET 340	Advanced Programmable Logic Controllers	
ET 342	Supervisory Control and Data Acquisition	
ET 350	Data Communication and Protocols	
ET 360	Project Management	
<b>Capstone Requirement</b>		<b>3</b>
ET 400 or ET 410	Co-op/Internship in Engineering Technology Capstone Project	
<b>Technical Electives (choose three courses):</b>		<b>9</b>
ENGR 402	Smart Cities: Engineering the Future	

ENGR 414	Power System Analysis and Protection	
ENGR 426	Wireless Communications	
ENGR 428	Wireless Networks	
ENGR 493	Special Topics in Electrical Engineering	
ENGR 498	Independent Study	
ENGR 494	Co-op	
ET 415	Solar and Alternate Energy Systems	
ME 334	Industrial Decision Processes	
<b>Total Credits</b>		<b>95</b>

## Curriculum Guide

The following curriculum guide is for a four-year **Electrical Engineering Technology** degree program and is subject to change without notice. Students should consult their program advisor to ensure that they have the most accurate and up-to-date information available. This program is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, [www.abet.org](http://www.abet.org).

Total **124** credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ET 101	Fundamentals of Engineering Technology	2
ET 105	Fundamentals of Drawing	3
MATH 202	Calculus and Analytic Geometry I	4
First Year Seminar		3
General Education		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ENGR 120	Electrical Circuits I	3
ENGR 121	Electrical Circuits I Lab	1
ET 142	Introduction to Programming	3
MATH 203	Calculus and Analytic Geometry II	4
General Education		3
<b>Credits</b>		<b>14</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENGR 210	Electrical Circuits II	3
ENGR 211	Electrical Circuits II Lab	1
MATH 320	Linear Algebra and Matrix Theory	4
ME 206	Chemistry for Engineers	4
PHYSICS 201 or PHYSICS 103	Principles of Physics I or Fundamentals of Physics I	4
PHYSICS 203	Introductory Physics Lab I	1
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
ENGR 222	Electronic Devices	3
ENGR 223	Electronic Devices Lab	1
ENGR 224	Electrical Codes, Safety, and Standards	2
ENGR 236	Technical Writing and Information Literacy	3
ENGR 320	Energy Conversion	3
ENGR 321	Energy Conversion Lab	1
General Education		3
<b>Credits</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
ENGR 310	Digital Logic Design	3
ENGR 311	Digital Logic Design Lab	1
ENGR 348	Electromagnetic Fields and Applications	3
ET 250	Continuous Signals and Linear Systems	3
General Education		3

General Education		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ENGR 328	Microcontrollers and Programmable Logic Controllers	3
ENGR 329	Microcontrollers and Programmable Logic Controllers Lab	1
ENGR 346	Electrical Power Systems	3
ET 350	Data Communication and Protocols	3
ET 360	Project Management	3
General Education		3
<b>Credits</b>		<b>16</b>
<b>Senior</b>		
<b>Fall</b>		
ET 340	Advanced Programmable Logic Controllers	3
ET 342	Supervisory Control and Data Acquisition	3
Technical Elective I		3
Technical Elective II		3
General Education		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ET 400 or ET 410	Co-op/Internship in Engineering Technology or Capstone Project	3
ENGR 434	Power Electronics	3
Technical Elective III		3
General Education		3
General Education		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>124</b>

Technical Electives (choose any three):

1. ET 415 Solar and Alternate Energy Systems (3 s.h.)
2. ME 334 Industrial Decision Processes (3 s.h.)
3. ENGR 402 Smart Cities: Engineering the Future (3 s.h.)
4. ENGR 414 Power System Analysis and Protection (3 s.h.)
5. ENGR 426 Wireless Communications (3 s.h.)
6. ENGR 428 Wireless Networks (3 s.h.)
7. ENGR 493 Special Topics in Electrical Engineering (3 s.h.)
8. ENGR 494 Co-op (1-2 s.h.)
9. ENGR 498 Independent Study (1-4 s.h.)

## Faculty

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

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

**Elie Atallah**; Assistant Professor; Ph.D., University of Central Florida

**Rojoba Yasmin**; Assistant Professor; Ph.D., University of Memphis

**Taskia Ahammad Khan**; Associate Teaching Professor; M.S., Bradley University

## 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.

## Learning Outcomes

Students in the English major will:

- Critically read and interpret diverse literary texts using literary techniques, contextual information, scholarly research, and/or theoretical lenses.
- Create original works that demonstrate a unique voice, argument, and/or point of view and that reflect familiarity with key themes in the broader fields of literary studies and creative writing.
- Understand complex social and historical contexts that have shaped and continue to shape literature.
- Critique the systems of power and privilege that have shaped literature and our relationship to those systems.

In addition to the above-listed Outcomes for English majors, students in the Creative Writing emphasis in English will:

- Create, draft, and revise works in multiple genres and forms.
- Analyze the techniques and construction of various written expressions.
- Critique works by peers and published authors alike in various classroom settings, including the writing workshop.
- Situate their work within a larger audience of readers and publishing markets.

## Major Area of Emphasis (p. 154)

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

- Creative Writing
- English Education
- Literature

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ENGLISH 214	Introduction to English Literature I	
ENGLISH 290	Literary Studies	
<b>Choose one of the following:</b>		
ENGLISH 104	Introduction to Literature	
ENGLISH 206	Women in Literature	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 215	Introduction to English Literature II	
ENGLISH 216	Introduction to American Literature I	
ENGLISH 217	Introduction to American Literature II	
ENGLISH 236	Multicultural American Literature	
<b>Upper-Level Courses</b>		<b>12</b>
ENGLISH 431	Shakespeare	
<b>Choose 9 credits of additional 300-level or 400-level ENGLISH courses</b>		
<b>Total Credits</b>		<b>21</b>

## Curriculum Guide

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.

An example: Four year plan for **English Major with a Literature Emphasis; Minor in Humanities**  
120 credits necessary to graduate.



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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
HUM STUD 201	Introduction to the Humanities	3
WF 105	Research and Rhetoric	3
First Year Seminar		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ENGLISH 219	World Literatures II	3
HISTORY 101	Foundations of Western Culture I	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENGLISH 214	Introduction to English Literature I	3
ENGLISH 290	Literary Studies	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ENGLISH 215	Introduction to English Literature II	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
ENGLISH 216 or ENGLISH 217	Introduction to American Literature I or Introduction to American Literature II	3
ENGLISH 3XX elective		3
Perspectives Classical course		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ENGLISH 331	Major American Prose Fiction	3
Perspectives Medieval course		3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ENGLISH 431	Shakespeare	3
ENGLISH 3XX elective		3
ENGLISH 3XX elective		3
HUM STUD 3XX elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ENGLISH 340	History of the English Language	3
HUM STUD 480	Humanities Seminar	3
ENGLISH 3XX elective		3
Elective		3

Elective		3
	Credits	15
	Total Credits	120

Faculty

- Rebecca A Meacham**; Professor; Ph.D., University of Cincinnati
- Rebecca L Nesvet**; Professor; Ph.D., University of North Carolina - Chapel Hill
- Charles A Rybak**; Professor; Ph.D., University of Cincinnati, chair
- Jennifer Young**; Professor; Ph.D., Case Western Reserve University
- Julialicia Case**; Associate Professor; Ph.D., University of Cincinnati
- Ann Mattis**; Associate Professor; Ph.D., Loyola University
- Valerie Murrenus-Pilmaier**; Associate Professor; Ph.D., Marquette University
- Jonas Gardsby**; Assistant Professor; Ph.D.
- Kristopher Purzycki**; Assistant Professor; Ph.D., University of Wisconsin - Milwaukee

English Major

Area of Emphasis

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

- Creative Writing
- English Education
- Literature

Creative Writing

Code	Title	Credits
Supporting Courses		15
ENGLISH 201	Ethics in Writing	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 226	Grammar	
ENGLISH 290	Literary Studies	
Choose 1 additional Lower-Level Literature Course:		
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	
ENGLISH 236	Multicultural American Literature	
ENGLISH 264	Topics in Literature	
Upper-Level Courses		24
Required:		
ENGLISH 301	Intermediate Creative Writing	
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 307	Writing the Environment Workshop
ENGLISH 309	Co-Creative Writing Workshop
ENGLISH 310	Topics in Game Writing
ENGLISH 312	Topics in Creative Writing
ENGLISH 314	Topics in Professional & Technical Writing
<b>Upper-Level Literature courses (choose 4 courses): <sup>1</sup></b>	
ENGLISH 315	The British Novel
ENGLISH 319	Children's and Adolescent Literature
ENGLISH 320	Major Drama
ENGLISH 322	Major Poetry
ENGLISH 326	Topics in Publishing
ENGLISH 331	Major American Prose Fiction
ENGLISH 333	Literary Themes
ENGLISH 335	Literary Eras
ENGLISH 336	American Ethnic Literature
ENGLISH 338	World Literatures
ENGLISH 340	History of the English Language
ENGLISH 344	African American Literature
ENGLISH 345	LGBTQ Literature
ENGLISH 364	Literary Topics
ENGLISH 431	Shakespeare
ENGLISH 436	Major Author(s)
<b>Practicum (Choose 1 course)</b>	
ENGLISH 324	Sheepshead Review Practicum
ENGLISH 410	Live Video Streaming Practicum
ENGLISH 424	Book Editing Practicum
ENGLISH 428	Practicum in Community Engaged Writing
<b>Total Credits</b>	

39

<sup>1</sup> Some courses may vary by topic, so some of the above may be repeated for credit if the topic differs. See adviser for recommendations.

## English Education

Code	Title	Credits
<b>Supporting Courses</b>		<b>24</b>
COMM 133	Fundamentals of Public Address	
COMM 102	Introduction to Communication	
ENGLISH 214	Introduction to English Literature I	
ENGLISH 216	Introduction to American Literature I	
ENGLISH 217	Introduction to American Literature II	
ENGLISH 290	Literary Studies	
<b>Choose one:</b>		
ENGLISH 215	Introduction to English Literature II	
or ENGLISH 316	The English Novel: 1850's to the Present	
<b>Choose one:</b>		
HUM STUD 160	Introduction to Language	
or ENGLISH 226	Grammar	
<b>Upper-Level Courses</b>		<b>27</b>
ENGLISH 312	Topics in Creative Writing	
ENGLISH 431	Shakespeare	
HUM STUD 321	Sociolinguistics	
<b>Choose one:</b>		

EDUC 319 or ENGLISH 319	Adolescent Literature in Middle and Secondary School Reading Children's and Adolescent Literature
<b>Choose one:</b>	
ENGLISH 336 or ENGLISH 344	American Ethnic Literature African American Literature
<b>Choose one: <sup>2</sup></b>	
ENGLISH 218	World Literatures
ENGLISH 219	World Literatures II
ENGLISH 338	World Literatures
<b>Choose a minimum of 9 credits from the following upper-level Literature elective courses: <sup>3</sup></b>	
ENGLISH 301	Intermediate Creative Writing
ENGLISH 302	Short Fiction Writing Workshop
ENGLISH 303	Advanced Poetry Writing Workshop
ENGLISH 304	Creative Nonfiction Writing
ENGLISH 315	The British Novel
ENGLISH 320	Major Drama
ENGLISH 322	Major Poetry
ENGLISH 323	Topics in Literary Criticism
ENGLISH 326	Topics in Publishing
ENGLISH 331	Major American Prose Fiction
ENGLISH 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 345	LGBTQ Literature
ENGLISH 424	Book Editing Practicum
ENGLISH 436	Major Author(s)
<b>Total Credits</b>	

51

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

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

## Literature

Code	Title	Credits
<b>Supporting Courses</b>		<b>12</b>
ENGLISH 290	Literary Studies	
ENGLISH 201	Ethics in Writing	
<b>Elective courses (choose 2 courses):</b>		
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	
ENGLISH 236	Multicultural American Literature	
<b>Upper-Level Credits</b>		<b>27</b>
<b>Required</b>		
ENGLISH 315	The British Novel	

ENGLISH 338	World Literatures
ENGLISH 431	Shakespeare
<b>Choose one:</b>	
ENGLISH 331	Major American Prose Fiction
ENGLISH 322	Major Poetry
<b>Take 3 credits (1 course) that support EDI (Equity, Diversity, and Inclusion) outcomes</b>	
ENGLISH 344	African American Literature
ENGLISH 336	American Ethnic Literature
ENGLISH 345	LGBTQ Literature
<b>Take 3 credits (1 course) of Skills/Professionalization/Application</b>	
ENGLISH 324	Sheepshead Review Practicum
ENGLISH 327	Digital Platforms for Publishing
ENGLISH 328	UX Writing
ENGLISH 329	Placemaking and Writing
ENGLISH 410	Live Video Streaming Practicum
ENGLISH 424	Book Editing Practicum
ENGLISH 428	Practicum in Community Engaged Writing
ENGLISH 495	Teaching Assistantship
ENGLISH 497	Internship
<b>Take 6 credits (two courses) from Genres/Topics/Context category</b>	
ENGLISH 319	Children's and Adolescent Literature
ENGLISH 320	Major Drama
ENGLISH 322	Major Poetry (if not used above)
ENGLISH 326	Topics in Publishing
ENGLISH 331	Major American Prose Fiction (if not used above)
ENGLISH 333	Literary Themes
ENGLISH 335	Literary Eras
ENGLISH 364	Literary Topics
ENGLISH 436	Major Author(s)
ENGLISH 499	Travel Course
<b>ELECTIVES: Choose any 3 credits (1 course) of Upper Level English courses not already used above (includes Writing Workshops, Practicums, or Literature)</b>	

Total Credits

39

## Environmental Design & Community Planning

The Environmental Design and Community Planning minor is the integration of cultural, contextual, environmental and sustainable parameters with the physical realities of the design and development of products, spaces, buildings, places, neighborhoods and communities. The EDCP minor strives to explore and identify solutions to specific design opportunities and challenges through the design thinking model.

### Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>12</b>
DESIGN 236	Environmental Design Studio I	
EPP 152	Introduction to Graphic Display and Planning	
EPP 254	Introduction to Designing with Communities and Neighborhoods	
SOCIOL 100	Introduction to Urban Studies	
<b>Upper Level Courses</b>		<b>12</b>
Choose 12 credits		
DESIGN 437	Environmental Design Studio II	
DESIGN 438	Environmental Design Studio III	
DESIGN 439	Environmental Design Studio IV	
DESIGN 497	Internship	

## Faculty

**Addie M Sorbo**; Teaching Professor; B.A., University of Wisconsin - Green Bay

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

**Abbey Kleinert**; Assistant Professor; M.F.A., University of Minnesota

## Environmental Engineering Technology

(Bachelor of Science)

### Accreditation

The Environmental Engineering Technology program is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, [www.abet.org](http://www.abet.org).

### UW-Green Bay Engineering Technology

Combine hands-on learning with academic coursework and get ready for high-demand jobs in the growing field of engineering technology. The University partners with regional leaders and technical colleges so that you will be prepared for an ever-changing industry. Get the technical skills that will make you an expert and the critical-thinking skills that will make you indispensable.

### Engineering Technology Mission

All of the Engineering Technology programs (Electrical, Mechanical and Environmental) 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.

### Environmental Engineering Technology

Environmental engineering technology is the application of engineering principles and interdisciplinary environmental sciences to address challenges associated with human impacts on the environment. This field characterizes the dynamic relationship between human activity and the environment to determine strategies to minimize negative impacts. Career opportunities as an environmental engineering technologist vary greatly including municipal and industrial treatment facility technologists, laboratory and environmental quality technicians, health and safety managers, environmental consultants, and sustainability managers for industry and governmental agencies.

The Bachelor of Science (B.S.) degree in Environmental Engineering Technology at UW-Green Bay is an interdisciplinary program that prepares students for careers in applied environmental engineering using critical problem solving skills needed in regional and national industries, manufacturing, governmental, and engineering services firms. The focus of the program is the application of engineering principles to the solution of practical problems. Students will develop skills in hands on applications and interdisciplinary coursework in engineering, mathematics, geoscience, chemistry, physics, and biology applied to a variety of environmental challenges. Students examine the effects of pollution on humans and ecosystems, form strategies to improve processes to prevent or minimize negative effects, and develop sustainable solutions to using available resources. Teamwork, technical writing, and project management are also emphasized throughout the curriculum. The goal of the major is to develop well rounded engineering technologists that can adapt and succeed in a highly competitive workplace.

Students will benefit from relationships with local technical colleges and local industry to complete a B.S. in engineering technology in the Northeast Wisconsin area. Students may start earning their degree at UW-Green Bay or local technical colleges to give maximum flexibility in degree completion. In addition, the Northeast Wisconsin Educational Resource Alliance, NEW ERA, has established advisory boards linking leaders in regional industry and participating institutions to the major. Through these relationships students will have many opportunities for internships, co-op experiences, and employment after graduation.

### Environmental Engineering Technology Program Learning Outcomes

1. Program graduates will be employed as an environmental engineering technologist and perform all functions assigned to an environmental engineering technologist.
2. Graduates will apply multidisciplinary approaches including engineering, chemistry, mathematics, physics, geosciences, and biology to manage the unique challenges and balance the competing social, political, economic, and technical goals of environmental problems and solutions.
3. Graduates will exhibit a desire for life-long learning through higher education, technical training, teaching, membership in professional societies, and other developmental activities and will achieve positions of increased responsibility through these activities.

4. Graduates will demonstrate high levels of oral and written communication skills, critical thinking, responsibility and ethical behavior, and leadership in their careers.
5. Graduates will function effectively both as a leader and as a member of project teams and demonstrate an appreciation for diversity.

## Contact

For more information contact:

Jagadeep Thota, Ph.D.  
 Chair, Engineering  
 Phone: 920-465-2817  
 Email: thotaj@uwgb.edu

or

Patricia Terry, Ph.D.  
 Chair, Richard J. Resch School of Engineering  
 Phone: 920-465-2749  
 Email: terryp@uwgb.edu

## Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>42</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	Principles of Chemistry II Laboratory	
ENGR 236	Technical Writing and Information Literacy	
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	
<b>Physics (choose one option):</b>		
PHYSICS 103 & PHYSICS 203	Fundamentals of Physics I and Introductory Physics Lab I	
PHYSICS 201 & PHYSICS 203	Principles of Physics I and Introductory Physics Lab I	
<b>Fundamentals Courses</b>		<b>28</b>
<b>Lower-Level Fundamentals</b>		
CHEM 207	Laboratory Safety	
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	
ENV SCI 320	The Soil Environment	
ET 201	Introduction to Environmental Engineering	
ET 203	Introduction to Water and Waste Water	
MET 218	Fluid Mechanics	
<b>Upper-Level Fundamentals</b>		
BIOLOGY 322	Environmental Microbiology	
ET/ENV SCI 330	Hydrology	
GEOSCI 202	Physical Geology	
<b>Advanced Courses</b>		<b>9</b>
ET 360	Project Management	

ET/ENV SCI 334	Solid Waste Management	
ET 331	Advanced Water and Waste Water Treatment	
<b>Capstone Requirement</b>		<b>3</b>
ET 400 or ET 410	Co-op/Internship in Engineering Technology Capstone Project	
<b>Electives (choose three courses):</b>		<b>9</b>
ECON 305	Environmental Economics	
ENV SCI 305	Environmental Fate and Transport	
ENV SCI 433	Ground Water: Resources and Regulations	
ET/ENV SCI 415	Solar and Alternate Energy Systems	
ET/ENV SCI 424	Hazardous and Toxic Materials	
ET 430	Sustainable Agricultural Management	
ET 464	Atmospheric Pollution and Abatement	
GEOSCI 432	Hydrogeology	
WATER 444	Aqueous Geochemistry	
<b>Total Credits</b>		<b>91</b>

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ET 103	Surveying	
ET 201	Introduction to Environmental Engineering	
ET 203	Introduction to Water and Waste Water	
<b>Upper-Level Courses</b>		
<b>Required</b>		<b>3</b>
ET 331 or ENV SCI 335	Advanced Water and Waste Water Treatment Water and Waste Water Treatment	
<b>Electives: Complete any 3 courses</b>		<b>9-10</b>
ENV SCI 305	Environmental Fate and Transport	
ENV SCI 433	Ground Water: Resources and Regulations	
ET 334	Solid Waste Management	
ET 424	Hazardous and Toxic Materials	
ET 430	Sustainable Agricultural Management	
ET 464	Atmospheric Pollution and Abatement	
GEOSCI 432	Hydrogeology	
WATER 410	Agriculture-Water Nexus in Wisconsin	
WATER 411	Agriculture-Water Nexus Field Experience	
WATER 444	Aqueous Geochemistry	
<b>Total Credits</b>		<b>21-22</b>

## Curriculum Guide

The following curriculum guide is for a four-year **Environmental Engineering Technology** degree program and is subject to change without notice. Students should consult their program advisor to ensure that they have the most accurate and up-to-date information available. This program is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, [www.abet.org](http://www.abet.org).

Total **121** credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ET 101	Fundamentals of Engineering Technology	2
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
CHEM 207	Laboratory Safety	1



CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
MATH 202	Calculus and Analytic Geometry I	4
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
MATH 203	Calculus and Analytic Geometry II	4
First Year Seminar		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ET 103	Surveying	3
ET 105	Fundamentals of Drawing	3
ET 201	Introduction to Environmental Engineering	3
ET 203	Introduction to Water and Waste Water	3
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	4
PHYSICS 203	Introductory Physics Lab I	1
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
BIOLOGY 322	Environmental Microbiology	4
GEOSCI 202	Physical Geology	4
MATH 260	Introductory Statistics	4
ENGR 236	Technical Writing and Information Literacy	3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
ENV SCI 320	The Soil Environment	4
ET 330	Hydrology	3
ET 391	GIS	3
General Ed		3
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ET 331	Advanced Water and Waste Water Treatment	3
ET 334	Solid Waste Management	3
MET 218	Fluid Mechanics	3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ET 360	Project Management	3
Elective I		3
Elective II		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ET 400 or ET 410	Co-op/Internship in Engineering Technology or Capstone Project	3
Elective III		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>121</b>

## Faculty

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

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

**Kpoti (Stefan) Gunn**; Assistant Professor; Ph.D., Ohio State University, chair\*

## Environmental Policy and Planning

(Bachelor of Science)

Environmental Policy and Planning is an environmental policy, planning, and design program for both cities and the natural environment. 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 planning. 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 two 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 two program emphases from which majors can choose are Environmental Policy and Planning (managing resources in the built and natural environment), and the accelerated Environmental Policy program combining an undergraduate and master's degree. We also have a minor, which pairs well with many majors on campus.

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 **Environmental Policy and Planning emphasis** focuses on environmental law, policy, and sustainable 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 designing and planning community redevelopment; protection and management of land and natural resources (e.g., cities, farmland, forests, etc.) at the community and regional levels, techniques in geographic information systems, and how to adapt to the accelerating human influences on our environment. You learn about environmental policy development and implementation; methods of policy analysis; and political, administrative, legal, and economic issues in environmental policy.

This emphasis helps prepare students for careers and graduate work in environmental planning; community and regional planning; community-based environmental management; public, nonprofit, and private market sectors as environmental policy analysts; environmental management; government relations; and related careers; as well as for graduate work in environmental studies, public policy, public affairs, administration, and law.

The **accelerated Environmental Policy major** is an integrated undergraduate and master's program where you take the required courses of the Environmental Policy and Planning major and then take master's level courses focusing more on environmental law, policy, and administration, thus achieving an undergraduate and graduate degree in five years.

A **minor in Environmental Policy and Planning** is similar to the major in developing knowledge and skills in planning, decision-making, public policy, environmental design, political and economic processes, as well as the analytic capacities to participate in decision-making. An interdisciplinary minor in Environmental Policy and Planning is a good choice for students who wish to major in Environmental Science, Public Administration, Political Science, Economics, Urban Studies, Democracy and Justice Studies, or a number of other programs.

### Considering a Double Major or Certificate?

Some students may want to consider a double major, combining Environmental Policy and Planning with Public Administration. Other popular second majors include Political Science, Urban Studies, and Economics. A double major or a minor in one of these fields complements the Environmental Policy and Planning curriculum, and makes students stronger candidates when seeking careers or entry into graduate programs.

A certificate in Environmental Sustainability and Business fits well with a major or minor in Environmental Policy and Planning. Likewise, students interested in working in a non-governmental or non-profit organization might explore the certificate in Nonprofit Management. Students should contact a faculty adviser early in their academic careers for advice on these options.

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

## Major Area of Emphasis (p. 165)

Students must complete requirements in one of the following areas of emphasis: (p. 165)

- Environmental Policy and Planning (p. 165)
- Environmental Policy\* (p. 165)

\* includes an accelerated option - Integrated with graduate Environmental Science & Policy program

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>12</b>
<b>Required:</b>		
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	
EPP 102	Environment and Society	
<b>Choose two of the following courses:</b>		
ECON 203	Micro Economic Analysis	
PUB ADM 202	Introduction to Public Policy	
PUB ADM 215	Introduction to Public and Nonprofit Service	
<b>Upper-Level Courses</b>		<b>18</b>
<b>Complete these required courses:</b>		
EPP 324	Transitioning to Sustainable Communities	
PUB ADM 301	Environmental Politics and Policy	
PUB ADM 322	Environmental Planning	
<b>Complete three of the following courses:</b>		
ENV SCI 351	Web GIS and Applications	
EPP 323	Sustainable Land Use	
EPP 379	Natural Resources Policy, Law, and Administration	
GEOG 321	Coastal Resources Policy and Management	
POL SCI 378	Environmental Law	
PUB ADM 306	Regulatory Policy and Administration	
PUB ADM 408	Public Policy Analysis	
PUB ADM 497	Internship	
<b>Total Credits</b>		<b>30</b>

## Curriculum Guide

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

This is a representative plan. Check with your advisor and EPP professors to see that your plan meets the requirements for this emphasis.

120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
EPP 102	Environment and Society	3
EPP 152	Introduction to Graphic Display and Planning	3
GEOG 102	World Regions and Concepts: A Geographic Analysis	3
First Year Seminar		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
GEOSCI 222	Introduction to Weather & Climate	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>

**Sophomore****Fall**

ECON 203	Micro Economic Analysis	3
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	3
Env Science or Geo Science Lower Level Elective		3
General Ed		3
General Ed		3

**Credits** **15**

**Spring**

ENV SCI 351	Web GIS and Applications	3
Env Science or Geo Science Lower Level Elective		3
General Ed		3
General Ed		3
General Ed		3

**Credits** **15**

**Junior****Fall**

EPP 324	Transitioning to Sustainable Communities	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

**Credits** **15**

**Spring**

PUB ADM 322	Environmental Planning	3
Environmental Science Upper Level Elective		3
Environmental Policy and Planning Upper Level Elective		3
General Ed		3
General Ed		3

**Credits** **15**

**Senior****Fall**

POL SCI 378	Environmental Law	3
EPP 497	Internship	3
Environmental Policy and Planning Upper Level Elective		3
Environmental Policy and Planning Upper Level Elective		3
General Ed		3

**Credits** **15**

**Spring**

EPP 412	Urban and Regional Planning	3
EPP 497	Internship	3
Environmental Policy and Planning Upper Level Elective		3
Environmental Policy and Planning Upper Level Elective		3
General Ed		3

**Credits** **15**

**Total Credits** **120**

## Faculty

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

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

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

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

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

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

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

# Environmental Policy and Planning Major

## Major Area of Emphasis

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

- Environmental Policy and Planning
- Environmental Policy\*

\* includes an accelerated option - Integrated with graduate Environmental Science & Policy program

## Environmental Policy and Planning

Code	Title	Credits
<b>Core Supporting Courses</b>		<b>12-13</b>
<b>Required:</b>		
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	
EPP 102	Environment and Society	
GEOG 102	World Regions and Concepts: A Geographic Analysis	
<b>Complete one Statistics or Economics course:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 301	Foundations for Social Research	
ECON 203	Micro Economic Analysis	
ECON 305	Environmental Economics	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Upper Level Courses</b>		
<b>Required:</b>		<b>18</b>
ENV SCI 351	Web GIS and Applications	
EPP 324	Transitioning to Sustainable Communities	
EPP 412	Urban and Regional Planning	
POL SCI 378	Environmental Law	
PUB ADM 301	Environmental Politics and Policy	
PUB ADM 322	Environmental Planning	
<b>Electives</b>		<b>12</b>
ENV SCI 337	Environmental GIS	
EPP 152	Introduction to Graphic Display and Planning	
EPP 254	Introduction to Designing with Communities and Neighborhoods	
EPP 323	Sustainable Land Use	
EPP 379	Natural Resources Policy, Law, and Administration	
EPP 380	Global Environmental Politics and Policy	
EPP 495	Teaching Assistantship	
EPP 497	Internship	
EPP 498	Independent Study	
EPP 499	Travel Course	
GEOG 321	Coastal Resources Policy and Management	
GEOSCI 222	Introduction to Weather & Climate	
SOCIOL 201	City Life and Globalization	
PUB ADM 408	Public Policy Analysis	
<b>Total Credits</b>		<b>42-43</b>

## Environmental Policy\*

Code	Title	Credits
<b>Supporting Courses</b>		<b>15-16</b>
<b>Required:</b>		
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	
EPP 102	Environment and Society	
GEOG 102	World Regions and Concepts: A Geographic Analysis	
<b>Complete one Public Policy course:</b>		
POL SCI 101	American Government and Politics	
PUB ADM 202	Introduction to Public Policy	
<b>Complete one Research/Statistics course:</b>		
BUS ADM 216	Business Statistics	
COMM SCI 301	Foundations for Social Research	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Additional Requirements</b>		<b>6</b>
<b>Required Supporting Courses:</b>		
ECON 203	Micro Economic Analysis	
GEOG 222	Ocean of Air: Weather and Climate	
<b>Upper-Level Courses</b>		
<b>Required:</b>		<b>18</b>
ENV SCI 351	Web GIS and Applications	
EPP 323	Sustainable Land Use	
POL SCI 378/578	Environmental Law <sup>#</sup>	
POL SCI 380/580	Global Environmental Politics and Policy <sup>#</sup>	
PUB ADM 301	Environmental Politics and Policy	
PUB ADM 408	Public Policy Analysis	
<b>Electives</b>		<b>12</b>
<b>Complete two Policy or Planning courses:</b>		
EPP 379/579	Natural Resources Policy, Law, and Administration <sup>#</sup>	
POL SCI 406/606	State and Local Government <sup>#</sup>	
PUB ADM 306/506	Regulatory Policy and Administration <sup>#</sup>	
PUB ADM 314/514	Administrative Law <sup>#</sup>	
PUB ADM 322/522	Environmental Planning <sup>#</sup>	
<b>Complete one Sustainability course:</b>		
EPP 324	Transitioning to Sustainable Communities	
EPP 431	Building Sustainable Landscapes	
GEOG 321	Coastal Resources Policy and Management	
<b>Other Electives:</b>		
ECON 453	Cost Benefit Analysis	
EPP 495	Teaching Assistantship	
EPP 496	Project/Research Assistantship	
EPP 497	Internship	
EPP 498	Independent Study	
EPP 499	Travel Course	
<b>Total Credits</b>		<b>51-52</b>

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

# 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 <https://www.uwgb.edu/international-education/>.

## Major\*

Code	Title	Credits
<b>Supporting Courses</b>		<b>36</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	

BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes
BIOLOGY 203	Principles of Biology: Organisms and Evolution
BIOLOGY 204	Principles of Biology Lab: Organisms and Evolution
CHEM 211	Principles of Chemistry I
CHEM 212	Principles of Chemistry II
CHEM 213	Principles of Chemistry I Laboratory
CHEM 214	Principles of Chemistry II Laboratory
ENV SCI 239	Scientific Writing
ENV SCI 250	Introduction to Geographic Information Systems (GIS)
GEOSCI 202	Physical Geology
MATH 260	Introductory Statistics
<b>Mathematics (choose one of the following courses):</b>	
MATH 104	Precalculus
MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
<b>Upper-Level Courses <sup>1</sup></b>	
BIOLOGY 306	Principles of Ecology
ENV SCI 305/505	Environmental Fate and Transport <sup>#</sup>
ENV SCI 336	Environmental Statistics
<b>Elective Courses (choose 15 credits):</b>	
BIOLOGY 469/669	Conservation Biology <sup>#</sup>
ENV SCI 301	Radioactivity: Past, Present, and Future
ENV SCI 303	Environmental Sustainability
ENV SCI 320/520	The Soil Environment
ENV SCI/ET 330/ENV SCI 530	Hydrology <sup>#</sup>
ENV SCI 335/535	Water and Waste Water Treatment <sup>#</sup>
ENV SCI 337/537	Environmental GIS <sup>#</sup>
ENV SCI 338	Environmental Modeling
ENV SCI 401/601	Stream Ecology <sup>#</sup>
ENV SCI 403/603	Limnology <sup>#</sup>
ENV SCI/ET 415/ENV SCI 615	Solar and Alternate Energy Systems <sup>#</sup>
ENV SCI 424/624	Hazardous and Toxic Materials <sup>#</sup>
ENV SCI 425/625	Global Climate Change <sup>#</sup>
ENV SCI 433/633	Ground Water: Resources and Regulations <sup>#</sup>
ENV SCI 460/660	Resource Management Strategy <sup>#</sup>
ENV SCI 464/664	Atmospheric Pollution and Abatement <sup>#</sup>
ENV SCI 467	Research Experience in Environmental Science
ENV SCI 491	Senior Thesis/Research in Environmental Science
BIOLOGY 310/510	Plant Biodiversity <sup>#</sup>
BIOLOGY 320/520	Field Botany <sup>#</sup>
BIOLOGY 322/522	Environmental Microbiology <sup>#</sup>
BIOLOGY 357/557	Marine Biology <sup>#</sup>
BIOLOGY 401/601	Fish and Wildlife Population Dynamics <sup>#</sup>
BIOLOGY 449/649	Wetland Ecology <sup>#</sup>
BIOLOGY 450/650	Ecological Restoration <sup>#</sup>
GEOSCI 402/602	Sedimentology & Stratigraphy <sup>#</sup>
GEOSCI 421/621	Geoscience Field Trip <sup>#</sup>
GEOSCI 432/632	Hydrogeology
GEOSCI 470/670	Glacial Geology & Landscapes
WATER 444/644	Aqueous Geochemistry <sup>#</sup>
<b>Total Credits</b>	



- <sup>1</sup> Students intending to pursue graduate study should include additional course work of at least one year of calculus, at least one year of physics, and upper-level courses in organic chemistry.
- # 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/undergrad-in-accelerated/>).

\* includes an accelerated option - Integrated with the graduate Environmental Science and Policy program

## Minor (<http://catalog.uwgb.edu/undergraduate/programs/environmental-science/minor/>)

Code	Title	Credits
<b>Supporting Courses</b>		<b>7</b>
ENV SCI 102 or ENV SCI 203	Introduction to Environmental Sciences Environmental Sustainability	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses <sup>1</sup></b>		<b>12</b>
Choose 12 credits (no more than 6 credits from ENV SCI 497, 498, 499):		
any 300-level ENV SCI course		
any 400-level ENV SCI course		
BIOLOGY 306	Principles of Ecology	
BIOLOGY 310	Plant Biodiversity	
BIOLOGY 320	Field Botany	
BIOLOGY 322	Environmental Microbiology	
BIOLOGY 401	Fish and Wildlife Population Dynamics	
BIOLOGY 357	Marine Biology	
BIOLOGY 449	Wetland Ecology	
BIOLOGY 450	Ecological Restoration	
BIOLOGY 469	Conservation Biology	
BIOLOGY 499	Travel Course	
ET 424	Hazardous and Toxic Materials	
ET 464	Atmospheric Pollution and Abatement	
GEOSCI 325	Regional Climatology	
GEOSCI 421	Geoscience Field Trip	
GEOSCI 432	Hydrogeology	
GEOSCI 470	Glacial Geology & Landscapes	
WATER 321	Stable Isotopes in the Environment	
<b>Total Credits</b>		<b>19</b>

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

## Curriculum Guide

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.

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

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1

MATH 104	Precalculus (or MATH 202 or MATH 203)	4
First Year Seminar		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 203	Principles of Biology: Organisms and Evolution	3
BIOLOGY 204	Principles of Biology Lab: Organisms and Evolution	1
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
ENV SCI 102	Introduction to Environmental Sciences	3
WF 100 or WF 105	First Year Writing or Research and Rhetoric	3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 306	Principles of Ecology	4
GEOSCI 202	Physical Geology	4
MATH 260	Introductory Statistics	4
POL SCI 101 or PUB ADM 202	American Government and Politics or Introduction to Public Policy	3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	3
ENV SCI 303	Environmental Sustainability (or ENV SCI 460 or PU EN AF 301 or Pu En Af 378)	3
ENV SCI 336	Environmental Statistics	3
ENV SCI 337	Environmental GIS	3
General Education/Elective		3
General Education/Elective		3
<b>Credits</b>		<b>18</b>
<b>Junior</b>		
<b>Fall</b>		
ENV SCI 305	Environmental Fate and Transport	4
ENV SCI 338	Environmental Modeling	2
ENV SCI 339	Scientific Writing	3
General Education/Elective		3
General Education/Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ENV SCI Upper Level Elective		3
General Education/Elective		3
General Education/Elective		3
General Education/Elective		3
General Education/Elective		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ENV SCI 467 or ENV SCI 491	Research Experience in Environmental Science or Senior Thesis/Research in Environmental Science	4
ENV SCI Upper Level Elective		3
General Education/Elective		3
General Education/Elective		3
General Education/Elective		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ENV SCI Upper Level Elective		3
General Education/Elective		3
General Education/Elective		3
General Education/Elective		3
General Education/Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>125</b>

## Engineering Dual Degree

### Cooperative Program in Civil & Environmental Engineering with University of Wisconsin-Milwaukee

**Advisers** — John Katers, professor; Patricia A. Terry, professor and coordinator

**Website:** [www.uwgb.edu/nas/](http://www.uwgb.edu/nas/) (<http://www.uwgb.edu/nas/>)

#### Dual Degree Program

UW-Green Bay and UW-Milwaukee also offer a Dual Degree Program in environmental science and civil and environmental engineering. Under this program a student completes three years of study in the Environmental Science major at UW-Green Bay, then transfers to UW-Milwaukee and continues for two years in the civil/environmental engineering major. Upon completion of an outlined series of courses, the student receives both a B.S. degree from UW-Green Bay in Environmental Science and a B.S. degree from UW-Milwaukee in Civil/Environmental Engineering. Students wishing to enroll in this program should see an engineering adviser prior to registration in their freshman year.

Participants in the NEW Engineering Program typically complete 60 to 72 credits at UW-Green Bay toward the degree. This includes the completion of 18 credits of general education requirements specific to this program:

- 3 credits minimum in the arts
- 6 credits minimum in the humanities
- 6 credits minimum in the social sciences
- 3 credits in cultural diversity

General education courses are required of all students. These courses complement and enhance major coursework for additional exposure to other areas of knowledge and bring an understanding of the relationship among and between subject areas. At least 9 of the 18 required credits must be from courses at the 200-level or above or from 100-level courses that require at least one prerequisite.

A grade of C or better in WF 105 will satisfy UW-Milwaukee's English composition requirement.

UW-Green Bay students are eligible to apply for advancement into the major at UW-Milwaukee at the point of transfer. The UW-Green Bay Academic Advising Office has forms. The filing deadlines are October 1 for spring semester, February 15 for summer session, and June 1 for fall semester.

For information on other engineering options, refer to the Preprofessional Programs of Study section of this catalog or contact one of the engineering advisers listed above.

## Requirements for the Cooperative Program

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

Code	Title	Credits
<b>Required Courses</b>		
CHEM 211	Principles of Chemistry I	4
CHEM 212	Principles of Chemistry II	4
CHEM 213	Principles of Chemistry I Laboratory	1
CHEM 214	Principles of Chemistry II Laboratory	1
MATH 202	Calculus and Analytic Geometry I	4
MATH 203	Calculus and Analytic Geometry II	4
MATH 209	Multivariate Calculus	4
ME 213	Mechanics I	3
ME 214	Mechanics II	3
PHYSICS 201	Principles of Physics I	4
PHYSICS 202	Principles of Physics II	4
WF 100	First Year Writing	3
<b>Total Credits</b>		<b>39</b>

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

## Faculty

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Elie Atallah**; Assistant Professor; Ph.D., University of Central Florida

**Mary E Guy**; Associate Teaching Professor; M.S., University of Wisconsin - Oshkosh

## Entrepreneurship

The Entrepreneurship emphasis provides students with the essential knowledge, skills, and mindset required to excel in the dynamic realm of entrepreneurship. Embedded within the broader business administration curriculum, this specialized emphasis cultivates innovation, creativity, and strategic thinking, preparing students for entrepreneurial ventures or leadership positions within established organizations. Through a blend of rigorous academic coursework, hands-on experiential learning opportunities, and guidance from industry experts, students gain a thorough comprehension of the entrepreneurial journey from conceptualization to implementation. Foundational courses in entrepreneurship explore key areas including identifying opportunities, developing business models, conducting feasibility analyses, devising financing strategies, and fostering venture growth. This emphasis establishes a robust framework for aspiring entrepreneurs and individuals aiming to effect significant change in the business landscape.

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>3</b>
ENTRP 272	Introduction to Entrepreneurship	
<b>Upper-Level Courses</b>		<b>15</b>
<b>Required:</b>		
ENTRP 373	Entrepreneurial Finance	
ENTRP 481	Small Business Management & Family Entrepreneurship	
ENTRP 486	Design Thinking and Developing Business Models	
ENTRP 491	Advanced Entrepreneurial Marketing	
<b>Elective (Choose one):</b>		
ENTRP 488	Minimum Viable Product and New Product Development	
ENTRP 492	Social Entrepreneurship	
<b>Total Credits</b>		<b>18</b>

## Faculty

**Bardia Batala**; Assistant Professor; Ph.D., Oklahoma State University

**Ray Parth**; Assistant Professor; Ph.D., DePaul University\*

**Hyeonsik Shin**; Assistant Professor; Ph.D., Fox School of Business, Temple University\*

**Nischal Thapa**; Assistant Professor; Ph.D., University of Missouri - Kansas City\*

**Matthew Geimer**; Associate Teaching Professor; J.D., University of Wisconsin - Madison, chair

**Praneet Tiwari**; Associate Teaching Professor; M.S., University of North Texas\*

**Paul Werner**; Assistant Teaching Professor; M.B.A., University of Minnesota

## Film Studies

Film Studies at the University of Wisconsin Green Bay offers an innovative Minor in Film Studies, embracing a multifaceted approach in which students experience cinema from critical and practical perspectives and have the opportunity to select an emphasis that suits their own curiosities and long-term goals as critics and makers. At UWGB, we encourage students to understand cinema as an art, a business, and a technology, and our curriculum engages students in the history, theory, and production of cinema in a variety of contexts, from local to global. As future professionals and critics, Film Students at UWGB develop the creative and critical skills that make them agile participants in all areas of media art and are prepared to serve their communities in meaningful ways. Because of the interdisciplinary nature of film studies, our courses offer a holistic grounding, and the minor is responsive to a number of majors and minors, including the Humanities, English, Communications, First Nation Studies, Writing and Applied Arts, Theater, Design, Arts Management, and Modern Languages.

### Minor

Code	Title	Credits
<b>Lower-Level Courses:</b>		<b>12</b>
<b>Required:</b>		
HUM STUD 110	Introduction to Film	
HUM STUD 210	Film and Society	
HUM STUD 240	Film and the Community	
<b>Lower-Level Film and Production Courses (Choose 3 credits):</b>		
ARTS MGT 257	Arts in the Community	
COMM 205	Elements of Media	
ENGLISH 200	Arts Entrepreneurship	
FNS 210	American Indians In Film	
THEATRE 131	Beginning Acting	
THEATRE 200	Script Analysis	
THEATRE 221	Stagecraft	
THEATRE 224	Introduction to Theatre Design	
<b>Upper-Level Courses:</b>		<b>12</b>
<b>Required:</b>		
HUM STUD 309	Introduction to Film History and Theory	
<b>Upper-Level Film, Production, and Story Telling Courses (Choose 6 credits):</b>		
COMM 307	Video Production	
FNS 372	Indigenous Nations Oral and Storytelling Traditions	
GERMAN 357	German Cinema	
HUM STUD 343	International Cinema	
HUM STUD 384	Topics in World Cultures (with film related topic)	
SPANISH 355	Spanish and Latin American Cinema	
<b>Upper-Level Courses in Practical Application (Choose 3 credits): <sup>1</sup></b>		
ART 381	Art of the First Nations	
COMM 378	Documentary Video Production	
COMM 477	Social Media Strategies	
DESIGN 433	Advanced Studio	
ENGLISH 312	Topics in Creative Writing	
ENGLISH 329	Placemaking and Writing	
THEATRE 302	Playwriting I	
THEATRE 351	Directing I	
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> A Film Studies related independent study or internship may be approved to satisfy this requirement, please see your advisor.

## Faculty

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

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

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

**Mark Karau**; Professor; Ph.D., Florida State University

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

**Hernan Fernandez-Meardi**; Associate Professor; Ph.D., Universite de Montreal (Canada)

**Justin Kavlie**; Assistant Professor; Ph.D., University of North Carolina

**Alan Kopischke**; Assistant Professor; M.F.A., American Conservatory Theater

**Zack Kruse**; Assistant Teaching Professor; Ph.D., Michigan State University

## Finance

(Bachelor of Business Administration)

The Finance major at UW-Green Bay is designed to provide future financial professionals with practical and theoretical knowledge of various financial components, such as investments, corporate finance, capital markets, banking, risk management, international financial management, and personal financial planning. Graduates from the Finance program will be prepared to work as financial analysts, financial managers, financial advisors, security analysts, portfolio managers, insurance underwriters, stock brokers, mortgage underwriters, bank branch managers, and in other finance-related positions.

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 supporting and core courses provide breadth and introduce each student to the foundations of business knowledge, including communication, economics, statistics, computers, accounting, finance, management, and marketing. Subject-focal upper-level courses prepare Finance students for their professional careers by providing in-depth coverage of major areas in Finance, including Investments, Corporate Finance, Risk Management, Real Estate Finance, Financial Markets and Institutions, International Financial Management, and Personal Financial planning.

By offering three distinct emphasis's Finance students have extensive opportunities to meet business professionals and gain practical experience. Students are able to choose between traditional Business Finance, Portfolio Management, or Personal Financial Planning. The Corporation Finance emphasizes skills required to build a career as a Financial Analyst, Budget Analyst, or Chief Investment Officer. The Securities Analysis and Portfolio Management Emphasis focuses upon skills required in the Securities and Investment Management Industry. While the Personal Finance Emphasis teaches the needed skills to build a career Advising Individuals on all aspects of Personal Finance. All Finance students will have access to the Willie D. Davis Finance and Investment Lab and the Center for Financial Wellness. The Willie D. Davis Finance and Investment Lab is a state-of-the-art facility that provides students with the opportunity to apply finance and investment knowledge in a real-life setting. Students can also apply to be a part of the Student Managed Investment Fund (SMIF) course, where students actively research investments and build portfolios with real dollars in real-time. Additionally, a vibrant Student Finance Association supports these efforts and helps students to meet others with like interests. The Center for Financial Wellness fosters alumni and industry partnerships and encourages students career advancement, housing the Personal Financial Planning Association student organization. Students can access peer-to-peer Financial Consulting, where personal financial planning students offer financial coaching on fundamental personal finance areas to their peers at UW-Green Bay, empowering students to achieve their financial goals. Students have the opportunity to broaden their professional networks as organizational members, or to develop their leadership skills through service as student officers. Finance faculty are experts in their field and encourage students to participate in internship programs through which students learn and earn credits while working in real business settings.

### Entrance and Exit Requirements

Students can add a Finance major at any time with any number of credits through a simple online process. Students should contact their Professional Advisor listed under the Program Advisors on the right-hand side of the SIS to start the process. Students will be required to read and accept an Honor Code (pre-declaration form). For students adding a major offered in the Cofrin School of Business, a faculty mentor who specializes in their program will be listed under their Program Advisors in SIS.

Students must maintain a cumulative GPA of 2.5 to proceed in the course progression for a Finance major. Students intending to graduate with this major must have a minimum 2.5 cumulative grade point average. All students must meet this program exit requirements to graduate.

## Major Area of Emphasis (p. 175)

Students must complete requirements in one of the following areas of emphasis: (p. 175)

- Business Finance (p. 175)
- Personal Financial Planning (p. 175)
- Portfolio Management (p. 175)

## Faculty

**Rasoul Rezvanian**; Professor; Ph.D., Southern Illinois University

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

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

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

**Zhuoli Axelton**; Assistant Professor; Ph.D., Washington State University

**Preston Cherry**; Assistant Professor; Ph.D., Texas Tech University

**Heather Kaminski**; Assistant Professor; D.B.A., Anderson University

**Eu Jin Kwak**; Assistant Professor; Ph.D., University of Georgia\*

**Grace (Fangjun) Sang**; Assistant Professor; Ph.D., Kent State

**Kevin Jaklin**; Assistant Teaching Professor; M.B.A., University of Wisconsin - Oshkosh, chair

## Finance Major

### Major Area of Emphasis

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

- Business Finance
- Personal Financial Planning
- Portfolio Management

## Business Finance

Code	Title	Credits
<b>Supporting Courses</b>		<b>30</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
HRM 262	Introduction to Human Resource Management	
PHILOS 227	Business Ethics	
SCM 200	Principles of Supply Chain Management	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics (choose one):</b>		<b>3-4</b>
BUSAN 220	Introduction to Business Statistics	

or MATH 260	Introductory Statistics	
<b>Upper-Level Foundational Courses</b>		<b>15</b>
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
FIN 370	Investment Operations and Securities Regulation	
MKTG 322	Principles of Marketing	
<b>Finance Required Core Courses</b>		<b>12</b>
ECON 330	Money, Banking and Financial Markets	
FIN 442	Principles of Investment	
FIN 445	International Financial Management	
FIN 446	Advanced Corporation Finance	
<b>Required Elective Courses (6 credits):</b>		<b>6</b>
FIN 344	Real Estate Principles	
FIN 345	Risk Management and Insurance	
ACCTG 410	Introduction to Income Tax Theory and Practice	
FIN 415	Employee Benefits and Retirement Planning	
FIN 425	Estate and Trust Planning	
FIN 450	Bank Administration and Management	
FIN 460	Security Analysis and Portfolio Management	
FIN 475	Financial Plan Development	
FIN 480	Student Managed Investment Fund	
FIN 497	Internship	
<b>Capstone Experience:</b>		<b>3</b>
MGMT 482	Capstone in Business Strategy	
or FIN 480	Student Managed Investment Fund	
<b>Total Credits</b>		<b>69-70</b>

## Personal Financial Planning

Code	Title	Credits
<b>Foundation Courses</b>		<b>27</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
FIN 282	Personal Financial Planning	
HRM 262	Introduction to Human Resource Management	
PHILOS 227	Business Ethics	
<b>Economics (choose one option):</b>		
ECON 202	Macro Economic Analysis	
& ECON 203	and Micro Economic Analysis	
ECON 208	Economics WTCS Bridge	
& ECON 209	and WTCS Transfer Credit	
<b>Statistics (choose one):</b>		<b>3-4</b>
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
<b>Upper-Level Foundation Courses</b>		<b>18</b>
ACCTG 410	Introduction to Income Tax Theory and Practice	
BUS ADM 305	Legal Environment of Business	
BUSAN 370	Data Science for Managers	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	



MKTG 322	Principles of Marketing	
<b>Finance Required Core Courses</b>		<b>15</b>
FIN 345	Risk Management and Insurance	
FIN 442	Principles of Investment	
FIN 350	Psychology of Personal Finance	
FIN 415	Employee Benefits and Retirement Planning	
FIN 425	Estate and Trust Planning	
<b>Required Elective Courses (6 Credits)</b>		<b>6</b>
FIN 497	Internship	
FIN 480	Student Managed Investment Fund	
ACCTG 413	Income Tax Practicum (VITA)	
ECON 302	Intermediate Macro Economic Theory	
FIN 460	Security Analysis and Portfolio Management	
FIN 450	Bank Administration and Management	
ECON 330	Money, Banking and Financial Markets	
FIN 370	Investment Operations and Securities Regulation	
FIN 497	Internship	
<b>Capstone Experience (choose one):</b>		<b>3</b>
FIN 475	Financial Plan Development	
MGMT 482	Capstone in Business Strategy	
<b>Total Credits</b>		<b>72-73</b>

## Portfolio Management

Code	Title	Credits
<b>Foundational Courses</b>		<b>30</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
HRM 262	Introduction to Human Resource Management	
PHILOS 227	Business Ethics	
SCM 200	Principles of Supply Chain Management	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics (choose one):</b>		<b>3-4</b>
BUSAN 220 or ECON 210	Introduction to Business Statistics Quantitative Methods for Economics and Business	
<b>Upper-Level Foundational Courses</b>		<b>15</b>
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
FIN 370	Investment Operations and Securities Regulation	
MKTG 322	Principles of Marketing	
<b>Finance Required Core Courses</b>		<b>15</b>
ECON 330	Money, Banking and Financial Markets	
ECON 302	Intermediate Macro Economic Theory	
FIN 442	Principles of Investment	
FIN 460	Security Analysis and Portfolio Management	

FIN 445	International Financial Management	
<b>Required Elective Courses (6 credits):</b>		<b>6</b>
FIN 344	Real Estate Principles	
FIN 345	Risk Management and Insurance	
ACCTG 410	Introduction to Income Tax Theory and Practice	
FIN 415	Employee Benefits and Retirement Planning	
FIN 425	Estate and Trust Planning	
FIN 475	Financial Plan Development	
FIN 480	Student Managed Investment Fund	
FIN 497	Internship	
<b>Capstone Experience:</b>		<b>3</b>
MGMT 482	Capstone in Business Strategy	
or FIN 480	Student Managed Investment Fund	
<b>Total Credits</b>		<b>72-73</b>

## 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.

### Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>12</b>
<b>Required Core Courses</b>		
FNS 211	Tutoring and Mentoring First Nations Youth in K-12 <sup>1</sup>	
FNS 224	First Nations and The Sacred	
FNS 225	Introduction to First Nations Studies	
<b>Choose one:</b>		
FNS 210	American Indians In Film	
FNS 295	Special Topics in First Nations Studies	
<b>Upper-Level Courses</b>		<b>27</b>
FNS 391	First Nations Studies Capstone Seminar	
<b>First Nations Policy:</b>		
FNS 392	First Nations Justice and Tribal Governments	
or FNS 393	First Nations and Education Policy	
<b>Oral Emphasis (complete one of the following 12 credit options):</b>		
<b>Option 1 Oneida Language Project <sup>3</sup></b>		
FNS 301	Oneida Language I	
FNS 302	Oneida Language II	
FNS 303	Oneida Language III	

FNS 304	Oneida Language IV
<b>Option 2:</b>	
FNS 301	Oneida Language I <sup>3</sup>
FNS 399	First Nations Studies Oral Tradition Concentration (must complete 9 credits)
<b>Elective Courses (choose 9 credits):</b> <sup>2</sup>	
ART 381	Art of the First Nations
FNS 302	Oneida Language II
FNS 303	Oneida Language III
FNS 304	Oneida Language IV
FNS 360	Women and Gender in First Nations Communities
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 374	Wisconsin First Nations History
FNS 385	First Nations Intellectual Traditions
FNS 392	First Nations Justice and Tribal Governments
FNS 393	First Nations and Education Policy
FNS 395	Special Topics in First Nations Studies
FNS 399	First Nations Studies Oral Tradition Concentration
FNS 497	Internship
FNS 498	Independent Study
FNS 299/499	Travel Course

**Total Credits****39**<sup>1</sup> OR equivalent 3 credit learning experience<sup>2</sup> Courses do not double count with Oral Emphasis options above.<sup>3</sup> Or Indigenous Language other than Oneida**Minor**

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
FNS 211	Tutoring and Mentoring First Nations Youth in K-12 <sup>1</sup>	
FNS 225	Introduction to First Nations Studies	
<b>Choose one course:</b>		
FNS 210	American Indians In Film	
FNS 224	First Nations and The Sacred	
FNS 295	Special Topics in First Nations Studies	
<b>Upper-Level Courses</b>		<b>15</b>
FNS 391	First Nations Studies Capstone Seminar	
<b>Policy Requirement (choose one course):</b>		
FNS 392	First Nations Justice and Tribal Governments	
or FNS 393	First Nations and Education Policy	
<b>Elective Courses (choose 9 credits):</b> <sup>2</sup>		
FNS 301	Oneida Language I	
FNS 302	Oneida Language II	
FNS 303	Oneida Language III	
FNS 304	Oneida Language IV	
FNS 305	Oneida Language V	
FNS 306	Oneida Language VI	
FNS 360	Women and Gender in First Nations Communities	
FNS 372	Indigenous Nations Oral and Storytelling Traditions	
FNS 374	Wisconsin First Nations History	
FNS 385	First Nations Intellectual Traditions	
FNS 395	Special Topics in First Nations Studies	

FNS 393	First Nations and Education Policy
FNS 399	First Nations Studies Oral Tradition Concentration
FNS 495	Teaching Assistantship
FNS 497	Internship
FNS 498	Independent Study <sup>3</sup>

**Total Credits** **24**

<sup>1</sup> OR equivalent 3 credit learning experience

<sup>2</sup> Courses do not double count with Policy Requirement courses above.

<sup>3</sup> Requires approval of First Nations Studies adviser.

## Curriculum Guide

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.

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

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
FNS 211	Tutoring and Mentoring First Nations Youth in K-12 (or in Freshman year Spring)	3
FNS 225	Introduction to First Nations Studies	3
First Year Seminar		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
FNS 224	First Nations and The Sacred	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FNS 301	Oneida Language I	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
FNS 393	First Nations and Education Policy	3
FNS Upper Level Elective		3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>

<b>Spring</b>		
FNS 392	First Nations Justice and Tribal Governments (or FNS Upper Level Elective)	3
General Ed		3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
FNS 391	First Nations Studies Capstone Seminar	3
FNS Upper Level Elective		3
FNS Upper Level Elective		3
FNS Upper Level Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FNS 399	First Nations Studies Oral Tradition Concentration	12
Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

## Faculty

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

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

**Lois Stevens**; Assistant Professor; Ph.D., University of Kansas\*

## French and Francophone Studies

The French and Francophone Studies program is designed to help students develop practical language skills while they learn about the literature, culture and people of France and the French-speaking world. Knowing French opens the door to all the other cultures of the world where French is widely spoken — in Africa, the Middle East, Europe, Indochina.

French is the only language other than English spoken on five continents. Like English, French is truly a global language. French is the first or second language in over 40 countries, France is the world's sixth largest economy, and is the official working language of the United Nations, UNESCO, NATO, the International Olympic Committee and many more similarly important world organizations. According to the most recent U.S. Census, 1.9 million Americans speak French in the home.

In recent years, the U.S. was the second largest direct investor in France, and in 2002, France was the second largest foreign investor in the U.S. French is the foreign language spoken by our largest trading partner (Canada). In 2000, the United States exported more to countries having French as a national language than to countries having any other foreign language. Exports to Canada alone in that year were greater than the combined exports to all countries south of the United States. Among foreign countries doing business in the U.S., France employs the third largest number of Americans.

The world invests in France: In 2003, France was the second largest destination of foreign investment in the world. France is a leader in science and technology (nuclear physics, AIDS research, automobiles, electronics, aerospace, transportation, telecommunications and more). More tourists visit France than any other country in the world.

The broad training that is part of a program in French and Francophone Studies (including written and oral communication skills, reading and analyzing texts, history, geography and social studies) is an excellent means to personal growth and intellectual enrichment. It is also a fine preparation for entrance into the professional world. French and Francophone Studies majors have developed successful careers in many areas of business, the service professions (such as law or teaching), and government.

Along with the regularly scheduled array of courses, the French and Francophone Studies program also offers students the opportunity to earn degree credits while studying abroad. UW-Green Bay sponsors a semester program in Bordeaux and, with faculty approval, accepts credits from numerous other study-abroad programs. On campus, students can have frequent contact with authentic cultural materials both inside and outside the classroom via the internet, the latest multimedia equipment, and international television and radio reception.

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

Code	Title	Credits
FRENCH 101	Introduction to the French Language I	4
FRENCH 102	Introduction to the French Language II	4
FRENCH 201	Intermediate French Language I	3
FRENCH 202	Intermediate French Language II	3
FRENCH 320	Intermediate Composition and Conversation	3
FRENCH 325	Advanced French Conversation and Composition	3

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

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

## Retroactive Credit

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

For example, with four years of high school French, students who complete FRENCH 320, with a grade of "B" will receive 14 retroactive credits for FRENCH 101, FRENCH 102, FRENCH 201, and FRENCH 202 in addition to the three credits for FRENCH 320; students who complete the course with a "C" will receive seven retroactive credits for FRENCH 101 (2 of the total 4 credits), FRENCH 102 (2 of the total 4 credits), FRENCH 201 (1.5 of the total 3 credits), and FRENCH 202 (1.5 of the total 3 credits).

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

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

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

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

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

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
FRENCH 201	Intermediate French Language I	
FRENCH 202	Intermediate French Language II	
<b>Upper-Level Courses</b>		<b>12</b>
FRENCH 320	Intermediate Composition and Conversation	
FRENCH 325	Advanced French Conversation and Composition <sup>1</sup>	
<b>Elective Courses (choose 6 credits):</b>		
FRENCH 329	Representative French Authors <sup>1</sup>	
FRENCH 345	Advanced French Grammar and Translation	
FRENCH 355	Le Monde Francophone	
FRENCH 367	Business French	
FRENCH 498	Independent Study (in advanced language, literature, or cultural studies; with adviser's consent)	

**Total Credits****18**

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

## Faculty

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

**Jennifer Ham**; Professor; Ph.D., Rutgers University, chair

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

## 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.

## Major\*

Code	Title	Credits
<b>Supporting Courses</b>		<b>34</b>
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	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 (Choose one of the following combinations):** <sup>1</sup>

PHYSICS 103 & PHYSICS 203	Fundamentals of Physics I and Introductory Physics Lab I
PHYSICS 201 & PHYSICS 203	Principles of Physics I and Introductory Physics Lab I

**Upper-Level Courses****26**

ENV SCI 320/520	The Soil Environment <sup>#</sup>
GEOSCI 340	Introduction to Mineralogy & Petrology
GEOSCI 432/632	Hydrogeology <sup>#</sup>

**Choose one:**

ENV SCI 330	Hydrology
GEOSCI 402/602	Sedimentology & Stratigraphy <sup>#</sup>

**Electives****Choose 12 credits from the following courses:**

ENV SCI 330	Hydrology
ENV SCI 337	Environmental GIS
ENV SCI 425/625	Global Climate Change <sup>#</sup>
GEOSCI 301	Introduction to Geoscience Field Methods
GEOSCI 350	Structural Geology and Tectonics
GEOSCI 402	Sedimentology & Stratigraphy
GEOSCI 421/621	Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) <sup>#</sup>
GEOSCI 450	Ore Deposits
GEOSCI 470/670	Glacial Geology & Landscapes <sup>#</sup>
GEOSCI 491	Senior Thesis/Research in Geoscience
GEOSCI 492	Special Topics in Geoscience <sup>2</sup>
GEOSCI 498	Independent Study
GEOSCI 499	Travel Course
WATER 321	Stable Isotopes in the Environment
WATER 444/644	Aqueous Geochemistry <sup>#</sup>

**Total Credits****60**

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

<sup>1</sup> Students who plan to attend graduate school are advised to take Physics 201/203 (calculus-based physics)

<sup>2</sup> Course topics vary. Offerings of different topics can be repeated for credit.

\* includes an accelerated option - Integrated with graduate Environmental Science and Policy program

**Minor**

Code	Title	Credits
<b>Supporting Courses</b>		<b>20</b>
GEOSCI 202	Physical Geology	
GEOSCI 203	Earth System History	
<b>At least 5 credits of Chemistry at the 100-200 level</b>		
<b>Mathematics (Choose two of the following courses):</b>		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>12</b>
GEOSCI 340	Introduction to Mineralogy & Petrology	
<b>Choose at least 8 additional credits from the following list:</b>		



ENV SCI 320	The Soil Environment
ENV SCI 330	Hydrology
ENV SCI 337	Environmental GIS
ENV SCI 425	Global Climate Change
ENV SCI 433	Ground Water: Resources and Regulations
GEOSCI 301	Introduction to Geoscience Field Methods
GEOSCI 350	Structural Geology and Tectonics
GEOSCI 402	Sedimentology & Stratigraphy
GEOSCI 421	Geoscience Field Trip
GEOSCI 432	Hydrogeology
GEOSCI 450	Ore Deposits
GEOSCI 470	Glacial Geology & Landscapes
GEOSCI 491	Senior Thesis/Research in Geoscience
GEOSCI 492	Special Topics in Geoscience
GEOSCI 498	Independent Study
GEOSCI 499	Travel Course
WATER 321	Stable Isotopes in the Environment
WATER 444	Aqueous Geochemistry

**Total Credits****32**

## Curriculum Guide

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

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

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
GEOSCI 202	Physical Geology	4
MATH 104 or MATH 202	Precalculus or Calculus and Analytic Geometry I	4
WF 100	First Year Writing	3
First Year Seminar		3
General Ed		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
GEOSCI 203	Earth System History	3
GEOSCI 204	Earth System History Laboratory	1
GEOSCI 421	Geoscience Field Trip	1-3
MATH 202 or MATH 260	Calculus and Analytic Geometry I or Introductory Statistics	4
WF 105 or COMM 133	Research and Rhetoric or Fundamentals of Public Address	3
General Ed		3
<b>Credits</b>		<b>15-17</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
ENV SCI 330	Hydrology	3
MATH 202 or MATH 260	Calculus and Analytic Geometry I or Introductory Statistics	4
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
General Ed		3

Elective		3
Elective		3
GEOSCI 421	Geoscience Field Trip	1-3
<b>Credits</b>		<b>15-17</b>
<b>Junior</b>		
<b>Fall</b>		
GEOSCI 340	Introduction to Mineralogy & Petrology	4
ENV SCI 320	The Soil Environment	4
PHYSICS 201	Principles of Physics I	4
PHYSICS 203	Introductory Physics Lab I	1
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
GEOSCI/ENV SCI Upper Level Elective		3
GEOSCI/ENV SCI Upper Level Elective		3
Elective		3
Elective		3
Elective		3
GEOSCI 421	Geoscience Field Trip	1-3
<b>Credits</b>		<b>16-18</b>
<b>Senior</b>		
<b>Fall</b>		
GEOSCI/ENV SCI Upper Level Elective		3
Elective		3
Elective		3
Elective		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
GEOSCI 432	Hydrogeology	3
GEOSCI/ENV SCI Upper Level Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>121-127</b>

## Faculty

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

**Shawn Malone**; Assistant Professor; Ph.D., University of Iowa\*

## German

(Bachelor of Arts)

The German program provides students with the opportunity to develop communication skills in both written and spoken German along with an understanding of and appreciation for German literature and culture. Students developing linguistic and cultural proficiencies are challenged by a curriculum which includes a variety of courses in beginning, intermediate and advanced language, literature, cinema, culture, business and translation studies, as well as travel courses, independent study courses, and internship experiences.

Although many students choose to study German primarily for personal growth and intellectual enrichment, the program is designed to prepare students to enter a variety of careers in, for example, teaching, business, industry and government, and to provide a basis for further study at the graduate level. German language and culture studies are of great professional value in such fields as international business, communications, translating and interpreting, personnel work, public relations, management, education, music, art, philosophy, law, history, anthropology, theology, social work, politics and the travel industry. Furthermore, proficiency in a modern language and understanding of other cultures are essential for peace and prosperity in a mutually interdependent world.

All students in the German program are strongly encouraged to spend as much time as possible in German-speaking cultures; to study a semester or a year at UW-Green Bay's German exchange university, Kassel Universität or at another university in Hessen; and/or to participate in the winter or summer travel course in Germany. Students have the opportunity to interact with German exchange students, attend film series and weekly German

conversation tables, and to participate in a variety of German Club events and trips. The UW-Green Bay Language Resource Center has interactive audio-visual equipment and computers to support students' language acquisition and cultural awareness.

German students interested in the humanities may choose to minor in Humanities; students interested in teaching may choose an Education minor; those interested in business often choose Business Administration or International Business; and those interested in communication fields or creative fields may choose a minor in Design Arts or Arts Management. Depending on their personal preferences and career goals, students may combine other programs, such as Human Development or Democracy and Justice Studies.

Students who are beginning their study of German should enroll in Introduction to GERMAN 101. Students with previous German study should select a course appropriate to their level — GERMAN 102, GERMAN 201, GERMAN 202 or GERMAN 320 — by counting a year of high school work as equivalent to a semester of college work, or they should consult the German adviser.

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

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

## Retroactive Credit

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

For example, with four years of high school German, students who complete GERMAN 320, with a grade of "B" will receive 14 retroactive credits for GERMAN 101, GERMAN 102, GERMAN 201, and GERMAN 202 in addition to the three credits for GERMAN 320; students who complete the course with a "C" will receive seven retroactive credits for GERMAN 101 (2 of the total 4 credits), GERMAN 102 (2 of the total 4 credits), GERMAN 201 (1.5 of the total 3 credits), and GERMAN 202 (1.5 of the total 3 credits).

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

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

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

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

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

## Major Area of Emphasis (p. 189)

Students must complete requirements in one of the following areas of emphasis: (p. 189)

- German (p. 189)
- German for Students Seeking Teaching Certification (p. 189)

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
GERMAN 201	Intermediate German Language I	
GERMAN 202	Intermediate German Language II	
<b>Upper-Level Courses</b>		<b>15</b>
GERMAN 320	Intermediate German Conversation and Composition	

GERMAN 325	Advanced German Conversation and Composition	
GERMAN 329	Representative German Authors <sup>1</sup>	
<b>Elective courses (choose 6 credits): <sup>2</sup></b>		
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 357	German Cinema	
GERMAN 358	German Politics and Society	
GERMAN 420	Business German	
GERMAN 425	German Translation Studies	
GERMAN 499	Travel Course	
HUM STUD 356	German Culture	
<b>Total Credits</b>		<b>21</b>

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

<sup>2</sup> It is recommended that only one of the two courses, HUM STUD 356 or GERMAN 357, be used to fulfill requirements for the minor.

## Curriculum Guide

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.

An example: Four year plan for **German Major; Minor in Humanities**

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
GERMAN 201	Intermediate German Language I	3
HISTORY 101 or HISTORY 103 or HUM STUD 100	Foundations of Western Culture I or World Civilizations I or Global Challenges and the Human Experience	3
First Year Seminar		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
GERMAN 202	Intermediate German Language II	3
HISTORY 102 or HISTORY 104	Foundations of Western Culture II or World Civilizations II	3
WF 105	Research and Rhetoric	3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
GERMAN 320	Intermediate German Conversation and Composition	3
HUM STUD 213	Ethnic Diversity in America Past and Present	3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
GERMAN 325	Advanced German Conversation and Composition	3
Humanistic Studies Perspectives Course		3

Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
GERMAN 329	Representative German Authors	3
German Upper Level Elective		3
Humanistic Studies Perspectives Course		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
German Upper Level Elective		3
German Upper Level Elective		3
Humanistic Studies Perspectives Course		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
German Upper Level Elective		3
German Upper Level Elective		3
Humanistic Studies or FNS Upper Level Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
German Upper Level Elective		3
German Upper Level Elective		3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

## Faculty

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

**Jennifer Ham**; Professor; Ph.D., Rutgers University, chair

## German Major

### Area of Emphasis

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

- German
- German for Students Seeking Teaching Certification

### German

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
GERMAN 201	Intermediate German Language I	
GERMAN 202	Intermediate German Language II	
<b>Upper-Level Courses</b>		<b>24</b>
GERMAN 320	Intermediate German Conversation and Composition	
GERMAN 325	Advanced German Conversation and Composition	
GERMAN 329	Representative German Authors <sup>1</sup>	

**Choose 15 credits from the following courses: <sup>2</sup>**

GERMAN 333	Literary Themes
GERMAN 335	Literary Eras
GERMAN 350	Major German Drama
GERMAN 351	Major German Prose Fiction
GERMAN 345	Advanced German Grammar
GERMAN 355	Deutsche Kultur und Landeskunde
GERMAN 357	German Cinema <sup>3</sup>
GERMAN 358	German Politics and Society <sup>3</sup>
GERMAN 420	Business German
GERMAN 425	German Translation Studies
GERMAN 498	Independent Study
GERMAN 499	Travel Course
HUM STUD 356	German Culture

**Total Credits****30**<sup>1</sup> Some upper-level courses may be repeated for credit when course content varies. See adviser.<sup>2</sup> Students interested in studying abroad for one or more semesters should register for the placeholder course GERMAN 485.<sup>3</sup> Only 6 credits of courses taught in English may be counted toward the major.

## German for Students Seeking Teaching Certification

**This emphasis also requires:**

- Admission to the Education Program.
- Completion of the Education minor
- An oral proficiency exam successfully completed before student can be approved for student teaching.
- Student is required to spend an appropriate period of time in a country where German is spoken or participate in an approved immersion program.

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
GERMAN 201	Intermediate German Language I	
GERMAN 202	Intermediate German Language II	
<b>Upper-Level Courses</b>		<b>27</b>
EDUC 311	Teaching World Languages	
GERMAN 320	Intermediate German Conversation and Composition	
GERMAN 325	Advanced German Conversation and Composition	
GERMAN 329	Representative German Authors <sup>1</sup>	
GERMAN 345	Advanced German Grammar	
GERMAN 485	Study Abroad: Germany	
or GERMAN 499	Travel Course	
<b>Elective Courses (choose 9 credits):</b>		
Select from any 300-400 German upper level courses		
<b>Total Credits</b>		<b>33</b>

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

## Global Studies

The minor in Global Studies is a part of the program in Democracy and Justice Studies. Democracy and Justice Studies explores diverse ideals and practices of democracy and justice in the United States and the world through interdisciplinary social and historical studies. Democracy and Justice Studies students look at how people past and present have sought in various ways to sustain and change political, economic, cultural, and social orders. We ask why and how societies develop and whether their political, economic, cultural and social relations and activities promote justice, freedom, equality, and democracy.

The **Global Studies minor** 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.

Upon completing the minor in Global Studies, students will be able to

- reflect upon and ask questions about connections and contradictions in public debates over globalization.
- recognize and identify different disciplinary perspectives being used when discussing globalization.
- evaluate differences in political systems, including institutional design and the roles that citizens play in them.
- analyze the complex nature of global environmental sustainability issues and problems and the interrelated roles of science, administration, politics, and technology in their solution.
- explain how human societies are inextricably connected with local, regional, and global systems.

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ENV SCI 102	Introduction to Environmental Sciences	
GEOG 102	World Regions and Concepts: A Geographic Analysis	
<b>Choose one of the following courses:</b>		
ANTHRO 100	Varieties of World Culture	
ECON 102	Economics of the Modern World	
ECON 202	Macro Economic Analysis	
EPP 102	Environment and Society	
HUM BIOL 217	Human Disease and Society	
HISTORY 103	World Civilizations I	
HISTORY 104	World Civilizations II	
NUT SCI 250	World Food and Population Issues	
POL SCI 100	Global Politics and Society	
SOCIOL 201	City Life and Globalization	
<b>Upper-Level Courses</b>		<b>15</b>
<b>Choose five courses from the thematic categories below. At least one courses must be from each categories</b>		
<b>Global Democracy: institutions and citizenship</b>		
DJS 363	Topics in Democracy and Justice (Topic: South Africa. Topic: Genocide)	
GERMAN 358	German Politics and Society	
HISTORY 353	The U.S. and the World	
POL SCI 351	Comparative Politics	
POL SCI 360	International Relations	

POL SCI 370	Foreign and Defense Policies
<b>Global Environmental Sustainability: natural resources, climate change and human needs and services</b>	
ANTHRO 304	Family, Kin, and Community
ENV SCI 303	Environmental Sustainability
ENV SCI 425	Global Climate Change
HISTORY 326	Global Environmental History
HISTORY 450	War and Civilization
NURSING 492	Special Topics in Nursing (Topic: Global Aspects of Healthcare)
POL SCI 380	Global Environmental Politics and Policy
PSYCH 350	Cultural Psychology
<b>Global Peoples: nationality, ethnicity, race and religion</b>	
GEOG 370	Geography of South America
HISTORY 334	Contemporary Europe
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**

## Faculty

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

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

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

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

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

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

**Christine L Vandenhouten**; Professor; Ph.D., Marquette University\*

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

**Clifton G Ganyard**; Associate Professor; Ph.D., State University of New York at Buffalo, chair

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

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

## Graphic Design

(Bachelor of Arts)

The Graphic Design major emphasis is the study of the theory and practice of contemporary graphic design. The graphic design curriculum includes a series of core courses in the history, applications, and influences of print and web /interactive communications. The major emphasis 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, 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 program has a practicum and internship component through which students can gain professional experience and portfolio development.

## Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>15</b>
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	



ART 107	Two-Dimensional Design	
DESIGN 231	Graphic Design Studio I	
<b>Supporting Elective (Choose one course):</b>		
DESIGN 236	Environmental Design Studio I	
ART 210	Introduction to Painting	
ART 243	Introduction to Photography	
ART 270	Introduction to Printmaking	
<b>History and Theory (Choose 3 courses, at least 1 from each category):</b>		<b>9</b>
<b>Art History</b>		
ART 202	Modern Art	
ART 376	Modern American Culture	
ART 380	History of Photography	
<b>Theory</b>		
COMM 133	Fundamentals of Public Address	
COMP SCI 201	Introduction to Computing & Internet Technologies	
DESIGN 131	Introduction to Design and Culture	
<b>Upper Level Design Studio</b>		<b>15</b>
DESIGN 332	Graphic Design Studio II	
DESIGN 350	Typography	
DESIGN 431	Graphic Design Studio III	
DESIGN 433	Advanced Studio	
DESIGN 435	Design Arts Publication Workshop	
DESIGN 475	Professional Practice Capstone	
<b>Electives (Choose 6 credits):</b>		<b>6</b>
any 300-level Art or Design course		
any 400-level Art or Design course		
<b>Total Credits</b>		<b>45</b>

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ART 105	Introductory Drawing	
ART 107	Two-Dimensional Design	
DESIGN 231	Graphic Design Studio I	
<b>Upper Level Courses</b>		<b>15</b>
<b>Choose 15 credits</b>		
DESIGN 332	Graphic Design Studio II	
DESIGN 350	Typography	
DESIGN 431	Graphic Design Studio III	
DESIGN 433	Advanced Studio	
DESIGN 435	Design Arts Publication Workshop	
DESIGN 497	Internship	
<b>Total Credits</b>		<b>24</b>

## Faculty

**Addie M Sorbo**; Teaching Professor; B.A., University of Wisconsin - Green Bay

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

**Abbey Kleinert**; Assistant Professor; M.F.A., University of Minnesota

# 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 and Introductory Biology 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.

## Major Area of Emphasis (p. 194)

Students must complete requirements in one of the following areas of emphasis: (p. 194)

- Healthcare Management (p. 194)
- Healthcare Technology (p. 194)

## Faculty

**Shauna M Froelich**; Teaching Professor; JD, Marquette University

**Christine L Vandenhouten**; Professor; Ph.D., Marquette University\*

**Misty Neal**; Assistant Teaching Professor; M.B.A., Albany State University, chair

# Health Information Management and Technology Major

## Area of Emphasis

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

- Healthcare Management
- Healthcare Technology

## Healthcare Management

Code	Title	Credits
<b>Supporting Courses:</b>		<b>5-10</b>
MATH 101	Advanced Algebra	
<b>Biology (Choose one option):</b>		
HUM BIOL 102	Introduction to Human Biology	
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab	
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
<b>Core Courses</b>		<b>49</b>
HIMT 301	Digital Literacy in Healthcare	
HIMT 310	Healthcare Systems and Organizations	
HIMT 320	Survey of Information Technology in Healthcare	
HIMT 330	Healthcare I: Terminology & Body Systems	
HIMT 340	Ethical issues, Security Management and Compliance	
HIMT 350	Statistics for Healthcare	
HIMT 360	Healthcare II: Survey of Disease & Treatments	
HIMT 370	Healthcare Systems: Analysis & Design	
HIMT 380	Healthcare Billing, Coding and Reimbursement	
HIMT 400	Healthcare Information and Technology - Data	
HIMT 410	Healthcare Systems: Implementation and Integration	
HIMT 420	Healthcare Systems: Project Management	
HIMT 430	Quality Assessment and Improvement	
HIMT 440	Group Processes, Team Building and Leadership	
HIMT 450	Healthcare Information and Technology - Standards	
HIMT 489	Pre-Capstone (Must be taken semester prior to HIMT 490)	
HIMT 490	Capstone	
<b>Healthcare Management Emphasis</b>		<b>12</b>
HIMT 355	Principles of Management for HIMT Professionals	
HIMT 365	Healthcare Economics	
HIMT 415	Human Resource Management in Healthcare	
HIMT 445	Application of Leadership & Management in Healthcare Technology	
<b>Total Credits</b>		<b>66-71</b>

## Healthcare Technology

Code	Title	Credits
<b>Supporting Courses</b>		<b>5-10</b>
MATH 101	Advanced Algebra	
<b>Biology (Choose one option):</b>		
HUM BIOL 102	Introduction to Human Biology	
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab	
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
<b>Core Courses</b>		<b>49</b>

HIMT 301	Digital Literacy in Healthcare
HIMT 310	Healthcare Systems and Organizations
HIMT 320	Survey of Information Technology in Healthcare
HIMT 330	Healthcare I: Terminology & Body Systems
HIMT 340	Ethical issues, Security Management and Compliance
HIMT 350	Statistics for Healthcare
HIMT 360	Healthcare II: Survey of Disease & Treatments
HIMT 370	Healthcare Systems: Analysis & Design
HIMT 380	Healthcare Billing, Coding and Reimbursement
HIMT 400	Healthcare Information and Technology - Data
HIMT 410	Healthcare Systems: Implementation and Integration
HIMT 420	Healthcare Systems: Project Management
HIMT 430	Quality Assessment and Improvement
HIMT 440	Group Processes, Team Building and Leadership
HIMT 450	Healthcare Information and Technology - Standards
HIMT 489	Pre-Capstone (Must be taken semester prior to HIMT 490)
HIMT 490	Capstone
<b>Healthcare Technology Emphasis</b>	
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

12

**Total Credits****66-71**

## 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 Learning Outcomes

### Historical Knowledge and Understanding:

- Students will demonstrate an understanding of the significance of racial, ethnic, gender, and other forms of diversity in shaping human experiences and history.
- Students will display a breadth of historical knowledge and understanding with one or more chronological or geographical areas of depth.
- Students will exhibit an appreciation of how human societies are inextricably connected with local, regional, and global ecosystems.
- Students will demonstrate their own understanding of the significance of studying history and of the role of historical perspectives in engaged citizenship.
- Students will show awareness of how different approaches to studying history shape how we understand the past.

- Students will show an understanding of how power, hierarchies, and social arrangements shape society.
- Students will display an awareness of both continuity and change over time.

#### Historical Skills:

- Students will critically evaluate and analyze diverse historical sources (oral, written, visual, and material) and interpretations.
- Students will be able to conduct historical research, analyze evidence, and formulate arguments using historical evidence.
- Students will communicate clearly and effectively with various audiences using written, oral, and digital means.

## Major Area of Emphasis (p. 198)

Students must complete requirements in one of the following areas of emphasis: (p. 198)

- General History (p. 198)
- Public History (p. 198)
- Social Studies Education (p. 198)

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
<b>Choose one of the following courses:</b>		
HISTORY 111	Debating American Democracy	
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
HISTORY 207	Introduction to African-American History	
HISTORY 220	American Environmental History	
DJS 221	Law and Equality in Historical Perspective	
<b>Choose one of the following courses:</b>		
HISTORY 101	Foundations of Western Culture I	
HISTORY 102	Foundations of Western Culture II	
HISTORY 103	World Civilizations I	
HISTORY 104	World Civilizations II	
HISTORY 110	Debating European History	
<b>Upper-Level Courses <sup>1</sup></b>		<b>12</b>
<b>Choose a minimum of one of the following courses:</b>		
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 353	The U.S. and the World	
HISTORY 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 400	Voyageur Magazine Practicum	
HISTORY 425	Topics in U.S. History	
DJS 361	Historical Perspectives on American Democracy	
DJS 363	Topics in Democracy and Justice (All topics excluding South Africa.)	
FNS 374	Wisconsin First Nations History	
<b>Choose a minimum of one of the following courses:</b>		
HISTORY 325	History of Modern Germany	
HISTORY 326	Global Environmental History	
HISTORY 332	Europe in the 19th Century	
HISTORY 333	Europe in the 20th Century	
HISTORY 334	Contemporary Europe	
HISTORY 356	History of Modern Africa	

HISTORY 421	Topics in Medieval History
HISTORY 422	Topics in Early Modern European History
HISTORY 423	Topics in Modern European History
HISTORY 424	Nazi Germany
DJS 363	Topics in Democracy and Justice (Topic: South Africa)
<b>Any other 300-400 History courses may be used to complete this requirement</b>	

**Total Credits****18**

- <sup>1</sup> Students are required to take one course from Category I and one course from Category II as listed under the major. The remaining 6 credits may be selected from any 300- or 400- level History course, or DJS 361 or FNS 374.

## Faculty

**Mark Karau**; Professor; Ph.D., Florida State University

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

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

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

**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

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

**James Vincent Lowery**; Associate Professor; Ph.D., University of Mississippi

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

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

**Lisa Lamson**; Associate Teaching Professor; Ph.D., Marquette University

## History Major

### Area of Emphasis

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

- General History
- Public History
- Social Studies Education

### General History

Code	Title	Credits
<b>Supporting Courses</b>		<b>18</b>
<b>American History</b>		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
<b>Western and World History</b>		
<b>Choose one course:</b>		
HISTORY 101	Foundations of Western Culture I	
HISTORY 103	World Civilizations I	
<b>Choose one course:</b>		
HISTORY 102	Foundations of Western Culture II	
HISTORY 104	World Civilizations II	
<b>Historical Methods</b>		
HISTORY 290	The Craft of History	

**Elective (choose one course):**

HISTORY 110	Debating European History
HISTORY 111	Debating American Democracy
HISTORY 207	Introduction to African-American History
HISTORY 220	American Environmental History
HISTORY 256	Why History Matters (U.S. History Topics)
DJS 221	Law and Equality in Historical Perspective

**Upper-Level Courses****27****Category I, American History (choose one course):**

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 353	The U.S. and the World
HISTORY 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 400	Voyageur Magazine Practicum
HISTORY 425	Topics in U.S. History
DJS 361	Historical Perspectives on American Democracy
FNS 374	Wisconsin First Nations History

**Category II, European History (choose one course):**

HISTORY 325	History of Modern Germany
HISTORY 332	Europe in the 19th Century
HISTORY 333	Europe in the 20th Century
HISTORY 334	Contemporary Europe
HISTORY 421	Topics in Medieval History
HISTORY 422	Topics in Early Modern European History
HISTORY 423	Topics in Modern European History
HISTORY 424	Nazi Germany

**Category III, World History (choose one course):**

HISTORY 326	Global Environmental History
HISTORY 356	History of Modern Africa
HISTORY 421	Topics in Medieval History (Topic: Medieval Russia)
DJS 363	Topics in Democracy and Justice (Topic: South Africa)

**Upper-Level Electives (choose 15 credits):****Any 300-400 History courses may be used to complete this requirement if not used above**

DJS 363	Topics in Democracy and Justice
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Topics: South Africa (if not used above); The U.S. and Genocide; Hist Perspectives on US Education System; The National Parks; Race, Gender, and the History of Civil Rights

FNS 374	Wisconsin First Nations History
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WOST 350	Topics in Women's, Gender, and Sexuality Studies (Topic: LGBTQ+ Archive Workshop)
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**Total Credits****45****Public History**

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
<b>American History</b>		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
<b>Choose one of the following courses:</b>		

HISTORY 101	Foundations of Western Culture I
HISTORY 103	World Civilizations I
<b>Choose one of the following courses:</b>	
HISTORY 102	Foundations of Western Culture II
HISTORY 104	World Civilizations II
<b>Historical Methods</b>	
HISTORY 290	The Craft of History
<b>Choose one of the following courses:</b>	
HISTORY 110	Debating European History
HISTORY 111	Debating American Democracy
HISTORY 207	Introduction to African-American History
HISTORY 220	American Environmental History
HISTORY 256	Why History Matters (U.S. History Topics)
DJS 221	Law and Equality in Historical Perspective
<b>Public Administration</b>	
PUB ADM 215	Introduction to Public and Nonprofit Service
<b>Upper-Level Courses</b>	
<b>Category I, American History (choose one course):</b>	
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 353	The U.S. and the World
HISTORY 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 425	Topics in U.S. History
DJS 361	Historical Perspectives on American Democracy
FNS 374	Wisconsin First Nations History
WOST 350	Topics in Women's, Gender, and Sexuality Studies (Topic: LGBTQ+ Archive Workshop)
<b>Category II, European History (choose one course):</b>	
HISTORY 325	History of Modern Germany
HISTORY 332	Europe in the 19th Century
HISTORY 333	Europe in the 20th Century
HISTORY 334	Contemporary Europe
HISTORY 421	Topics in Medieval History
HISTORY 422	Topics in Early Modern European History
HISTORY 423	Topics in Modern European History
HISTORY 424	Nazi Germany
<b>Category III, World History (choose one course):</b>	
HISTORY 326	Global Environmental History
HISTORY 356	History of Modern Africa
HISTORY 421	Topics in Medieval History (Topic: Medieval Russia)
DJS 363	Topics in Democracy and Justice (Topic: South Africa)
<b>Public History Experience</b>	
HISTORY 399	Public History Methods
HISTORY 400	Voyageur Magazine Practicum
HISTORY 415	Living History and Reenactment for Public Historians
HISTORY 497	Internship
<b>Professional Skills (choose two courses):</b>	
COMM 317	How to Create Great Social Media Content
COMM 378	Documentary Video Production



ORG LEAD 347	Budgeting and Financial Management
PUB ADM 315	Public and Non-Profit Management
PUB ADM 344	Leadership in Organizations
PUB ADM 415	Public and Nonprofit Budgeting
PUB ADM 425	Marketing, Fund Development, and Grant Writing for Nonprofits

**Total Credits****48****Social Studies Education**

Code	Title	Credits
<b>Supporting Courses</b>		<b>15</b>
POL SCI 101	American Government and Politics	
HISTORY 205	American History to 1865	
or HISTORY 206	History of the United States from 1865 to the Present	
HISTORY 207	Introduction to African-American History	
HISTORY 290	The Craft of History	
<b>Choose one of the following:</b>		
HISTORY 101	Foundations of Western Culture I	
HISTORY 102	Foundations of Western Culture II	
HISTORY 103	World Civilizations I	
HISTORY 104	World Civilizations II	
POL SCI 100	Global Politics and Society	
FNS 374	Wisconsin First Nations History	
<b>Quantitative Licensure Requirement</b>		<b>3</b>
PSYCH 205	Social Science Statistics	
MATH 100	Math Appreciation	
MATH 101	Advanced Algebra (or higher)	
<b>Required Content Courses</b>		<b>15</b>
FNS 225	Introduction to First Nations Studies	
HISTORY 365	U.S. Labor and the Working Class: Past and Present	
POL SCI 406	State and Local Government	
<b>Choose one of the following:</b>		
HISTORY 333	Europe in the 20th Century	
HISTORY 423	Topics in Modern European History (Topics: NAZI GERMANY or THE HOLOCAUST)	
DJS 353	The U.S. and the World	
DJS 363	Topics in Democracy and Justice (Topic: THE U.S. AND GENOCIDE)	
POL SCI 351	Comparative Politics	
<b>Choose one of the following</b>		
HISTORY 220	American Environmental History	
HISTORY 326	Global Environmental History	
POL SCI 380	Global Environmental Politics and Policy	
PUB ADM 301	Environmental Politics and Policy	
<b>Broadfield Requirements</b>		<b>12</b>
ECON 202	Macro Economic Analysis	
or ECON 203	Micro Economic Analysis	
PSYCH 102	Introduction to Psychology	
or PSYCH 203	Introduction to Lifespan Development	
SOCIOL 101	Introduction to Sociology	
or SOCIOL 203	Ethnic and Racial Identities	
or SOCIOL 238	Sociological Perspectives on Gender	
SOCIOL 216	Native American Landscapes:Imagined and Lived Spaces (or GEOG 200-level or higher)	
<b>History Disciplinary Requirements</b>		<b>6</b>

Choose any 300- or 400-level History course not used above, including HISTORY 480

**Total Credits**

**51**

## 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/registered-sanitarian-info.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 <https://www.uwgb.edu/international-education/>.

### Major Areas of Emphasis (p. 203)

Students must complete requirements in one of the following areas of emphasis: (p. 203)

- Health Science (p. 203)
- Exercise Science (p. 203)
- Applied Public Health (p. 203)
- Nutritional Sciences/Dietetics (p. 203)\*
- General Human Biology (p. 203)
- Cytotechnology (p. 203)
- Athletic Training\* (p. 203)

\* includes an accelerated option - Integrated with a graduate program

### Minor Areas of Emphasis (p. 214)

Students must complete requirements in one of the following areas of emphasis: (p. 214)

- Applied Human Biology (p. 214)
- General Human Biology (p. 214)

## Curriculum Guides (p. 215)

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. (p. 215)

- Human Biology Major with Exercise Science Emphasis Curriculum Guide (p. 215)
- Human Biology Major with Health Science Emphasis Curriculum Guide (p. 215)
- Human Biology Major with Nutritional Sciences / Dietetics Emphasis Curriculum Guide (p. 215)
- Human Biology Major with General Emphasis Curriculum Guide (p. 215)
- Human Biology Major with Cytotechnology Emphasis Curriculum Guide (p. 215)

## Faculty

**Cassie Groeschl**; Teaching Professor; M.S., University of Illinois - Chicago

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

**Jared Dalberg**; Associate Professor; M.Ed., Augusta State University

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

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

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

**Amanda J Nelson**; Associate Professor; PH.D., University of Illinois at Urbana - Champaign\*

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

**Elizabeth Leon**; Assistant Professor; Ph.D., University of Nevada - Las Vegas\*

**Rachel Thomas Tharmabalan**; Assistant Professor; Ph.D., The National University of Malaysia

**Sara A Wagner**; Assistant Teaching Professor; M.S., University of Alabama

## Human Biology Major

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

- Health Science
- Exercise Science
- Applied Public Health
- Nutritional Sciences/Dietetics\*
- General Human Biology
- Cytotechnology
- Athletic Training\*

\* includes an accelerated option - Integrated with a graduate program

## Health Science

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		<b>41-44</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety (must take at the same time OR before taking chemistry)	
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	

CHEM 213	Principles of Chemistry I Laboratory
CHEM 214	Principles of Chemistry II Laboratory
MATH 260	Introductory Statistics
<b>Anatomy and Physiology options (choose one):</b>	
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II
<b>Math (choose one):</b>	
MATH 104	Precalculus
MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
<b>Physics Options (choose one):</b>	
PHYSICS 103 & PHYSICS 203 & PHYSICS 104 & PHYSICS 204	Fundamentals of Physics I and Introductory Physics Lab I and Fundamentals of Physics II and Introductory Physics Lab II
PHYSICS 201 & PHYSICS 203 & PHYSICS 202 & PHYSICS 204	Principles of Physics I and Introductory Physics Lab I and Principles of Physics II and Introductory Physics Lab II
<b>Choose one of the following 3 options:</b>	
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	
<b>Upper-Level Courses</b>	
<b>Required Courses</b>	
CHEM 302	Organic Chemistry I
CHEM 303	Organic Chemistry II
CHEM 304	Organic Chemistry Laboratory I
CHEM 305	Organic Chemistry Laboratory II
<b>Choose three of the following courses:</b>	
BIOLOGY 303	Genetics
or HUM BIOL 310	Human Genetics
BIOLOGY 307	Cell Biology
HUM BIOL 402	Human Physiology
NUT SCI 300	Human Nutrition
<b>Biochemistry (choose one):</b>	
CHEM 330	Biochemistry
or CHEM 311	Analytical Chemistry
<b>Microbiology (choose one option):</b>	
HUM BIOL 323 & HUM BIOL 326	Medical Microbiology and Medical Microbiology Lab
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
<b>8 credits of electives - requires 2 under "Required lab elective" below <sup>2</sup></b>	
BIOLOGY 303	Genetics
BIOLOGY 307	Cell Biology
BIOLOGY 309	Evolutionary Biology
BIOLOGY 322	Environmental Microbiology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology

BIOLOGY 402	Advanced Microbiology
BIOLOGY 407	Molecular Biology
BIOLOGY 410	Developmental Biology
CHEM 311	Analytical Chemistry
CHEM 330	Biochemistry
HUM BIOL 310	Human Genetics
HUM BIOL 315	Foundations of Neuroscience
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 351	Kinesiology
HUM BIOL 360	Exercise Physiology
HUM BIOL 401	Art and Science
HUM BIOL 413	Neurobiology
HUM BIOL 402	Human Physiology
HUM BIOL 422	Immunology
HUM BIOL 426	Cancer Biology
HUM BIOL 444	Endocrinology
NUT SCI 300	Human Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Nutrigenomics and Advanced Nutrient Metabolism
NUT SCI 486	Medical Nutrition Therapy II: An Integrative and Functional Approach
Maximum of ONE Psychology course	
PSYCH 308	Physiological Psychology (Maximum of ONE Psychology Course)
PSYCH 435	Psychopathology
PSYCH 450	Health Psychology
<b>Laboratory Electives (choose 2):</b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
CHEM 301	Bio-Organic Chemistry Laboratory
CHEM 331	Biochemistry Laboratory
HUM BIOL 326	Medical Microbiology Lab
HUM BIOL 341	Human Anatomy Laboratory
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

**Total Credits****77-80**

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

<sup>2</sup> Requires a minimum of two upper-level laboratory courses within the Health Science electives

**Exercise Science**

Code	Title	Credits
<b>Supporting Courses</b>		<b>41-44</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	

BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes
CHEM 207	Laboratory Safety (must take at the same time OR before taking chemistry)
CHEM 211	Principles of Chemistry I
CHEM 212	Principles of Chemistry II
CHEM 213	Principles of Chemistry I Laboratory
CHEM 214	Principles of Chemistry II Laboratory
HUM BIOL 210	Prevention and Treatment of Athletic Injuries
MATH 260	Introductory Statistics
PSYCH 102	Introduction to Psychology
<b>First Aid/CPR</b>	
HUM BIOL 116	First Aid and Emergency Care Procedures (First Aid/CPR Requirement may be met with Red Cross Certification))
<b>Healthcare Terminology (choose one):</b>	
HIMT 330	Healthcare I: Terminology & Body Systems
NURSING 200	Fundamentals of Healthcare Terminology
<b>Physics Options (choose one):</b>	
PHYSICS 103 & PHYSICS 203	Fundamentals of Physics I and Introductory Physics Lab I
PHYSICS 201 & PHYSICS 203	Principles of Physics I and Introductory Physics Lab I
<b>Anatomy and Physiology Options (choose one):</b>	
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II
<b>Upper-Level Courses</b>	
HUM BIOL 333	Principles of Sports Physiology
HUM BIOL 343	Exercise Prescription and Evaluation
HUM BIOL 344	Motor Learning and Performance
HUM BIOL 351	Kinesiology
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism
HUM BIOL 451	Biomechanics
NUT SCI 300	Human Nutrition
<b>Organic Chemistry Options (choose one):</b>	
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
<b>Psychology (choose one):</b>	
PSYCH 308	Physiological Psychology
PSYCH 321	Sport and Performance Psychology
PSYCH 435	Psychopathology
PSYCH 450	Health Psychology
<b>Elective Courses (minimum of 9 credits including at least 1 from "Required Laboratory Elective"):</b>	
BIOLOGY 303	Genetics
BIOLOGY 307	Cell Biology
BIOLOGY 309	Evolutionary Biology
BIOLOGY 322	Environmental Microbiology
BIOLOGY 323	Principles of Microbiology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology

BIOLOGY 402	Advanced Microbiology
BIOLOGY 407	Molecular Biology
BIOLOGY 410	Developmental Biology
CHEM 303	Organic Chemistry II
CHEM 305	Organic Chemistry Laboratory II
CHEM 330	Biochemistry
HUM BIOL 310	Human Genetics
HUM BIOL 315	Foundations of Neuroscience
HUM BIOL 318	Reproductive Biology
HUM BIOL 322	Epidemiology
HUM BIOL 323	Medical Microbiology
HUM BIOL 324	The Biology of Women
HUM BIOL 331	Science and Religion: Spirit of Inquiry
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
HUM BIOL 495	Teaching Assistantship
HUM BIOL 497	Internship
HUM BIOL 498	Independent Study
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Nutrigenomics and Advanced Nutrient Metabolism
NUT SCI 486	Medical Nutrition Therapy II: An Integrative and Functional Approach
<b>Required Laboratory Elective (choose one):</b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 324	Principles of Microbiology Laboratory
HUM BIOL 326	Medical Microbiology Lab
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
CHEM 301	Bio-Organic Chemistry Laboratory
CHEM 331	Biochemistry Laboratory
HUM BIOL 341	Human Anatomy Laboratory
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

**Total Credits****80-83**

## Applied Public Health

Code	Title	Credits
<b>Supporting Courses</b>		<b>38-41</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	Principles of Chemistry II Laboratory	

MATH 104	Precalculus
MATH 260	Introductory Statistics
NUT SCI 212	Science of Food Preparation
NURSING 200	Fundamentals of Healthcare Terminology
<b>Anatomy and Physiology options (choose one):</b>	
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II
<b>Choose one option:</b>	
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	
<b>Upper-Level Courses</b>	
<b>Required:</b>	
BIOLOGY 402	Advanced Microbiology
HUM BIOL 322	Epidemiology
NUT SCI 300	Human Nutrition
NUT SCI 312	Quantity Food Production and Service
NUT SCI 421	Community and Public Health Nutrition
<b>Microbiology option (choose one):</b>	
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
HUM BIOL 323 & HUM BIOL 326	Medical Microbiology and Medical Microbiology Lab
<b>Organic Chemistry (choose one option):</b>	
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
<b>Electives, as needed, to acquire 30 credits of upper level coursework. Options to fulfill this requirement include upper level courses in Human Biology, Nutritional Science, Biology and Psychology.</b>	
<b>Total Credits</b>	

30

68-71

## Nutritional Sciences/Dietetics\*

Code	Title	Credits
<b>Supporting Courses</b>		<b>35-38</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety (must take at the same time OR before taking chemistry)	
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	Principles of Chemistry II Laboratory	
COMM 133	Fundamentals of Public Address	
MATH 260	Introductory Statistics	
NUT SCI 201	Survey of Nutrition Related Professions	
NUT SCI 212	Science of Food Preparation	
<b>Anatomy and Physiology options (choose one):</b>		
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab	



HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II
<b>Psychology (choose one):</b>	
PSYCH 102	Introduction to Psychology
PSYCH 203	Introduction to Lifespan Development
<b>Required Upper-Level Courses</b>	
<b>43-44</b>	
CHEM 300	Bio-Organic Chemistry
CHEM 301	Bio-Organic Chemistry Laboratory
NUT SCI 300	Human Nutrition
NUT SCI 312	Quantity Food Production and Service
NUT SCI 350	Life Cycle Nutrition
NUT SCI 421/621	Community and Public Health Nutrition #
NUT SCI 423	Community and Public Health Nutrition - Lab
NUT SCI 427/627	Nutrigenomics and Advanced Nutrient Metabolism #
NUT SCI 485/685	Medical Nutrition Therapy I: An Integrative and Functional Approach #
NUT SCI 486/686	Medical Nutrition Therapy II: An Integrative and Functional Approach #
NUT SCI 487	Nutritional Science Seminar
NUT SCI 488	Medical Nutrition Therapy II: An Integrative and Functional Approach - Discussion
<b>Genetics (choose one):</b>	
BIOLOGY 303	Genetics
HUM BIOL 310	Human Genetics
<b>Microbiology options (choose one):</b>	
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
HUM BIOL 323 & HUM BIOL 326	Medical Microbiology and Medical Microbiology Lab
<b>Physiology options (choose one):</b>	
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism
HUM BIOL 402	Human Physiology
<b>Biochemistry options (choose one):</b>	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory
NUT SCI 327	Nutritional Biochemistry
<b>Additional Courses (NOT REQUIRED) to Consider</b>	
NUT SCI 495	Teaching Assistantship
NUT SCI 497	Internship
NUT SCI 498	Independent Study
<b>Total Credits</b>	
<b>78-82</b>	

\* includes an accelerated option - Integrated with graduate Nutrition and Integrated Health program

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

## General Human Biology

Code	Title	Credits
<b>Supporting Courses</b>		<b>27-30</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	

CHEM 214	Principles of Chemistry II Laboratory
MATH 260	Introductory Statistics
<b>Anatomy and Physiology options (choose one):</b>	
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II
<b>Choose one of the following options:</b>	
COMM 133 or COMM 166 or Any literature course, e.g., ENGLISH 104 Introduction to Literature or One year of any college-level foreign language	Fundamentals of Public Address Fundamentals of Interpersonal Communication
<b>Upper-Level Courses</b>	
<b>Organic Chemistry options (choose one):</b>	
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
<b>Choose one course from three of the four areas:</b>	
<b>Genetics</b>	
BIOLOGY 303	Genetics
HUM BIOL 310	Human Genetics
<b>Physiology</b>	
HUM BIOL 402	Human Physiology
HUM BIOL 360	Exercise Physiology
<b>Nutrition</b>	
NUT SCI 300	Human Nutrition
<b>Cell or Microbiology</b>	
BIOLOGY 307	Cell Biology
BIOLOGY 323	Principles of Microbiology
HUM BIOL 323	Medical Microbiology
<b>Elective Courses (minimum of 17 credits):</b> <sup>1</sup>	
any 300 or 400 level HUM BIOL course and those listed below	
BIOLOGY 302	Principles of Microbiology
BIOLOGY 303	Genetics
BIOLOGY 322	Environmental Microbiology
BIOLOGY 307	Cell Biology
BIOLOGY 309	Evolutionary Biology
BIOLOGY 323	Principles of Microbiology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 402	Advanced Microbiology
BIOLOGY 407	Molecular Biology
BIOLOGY 410	Developmental Biology
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
NUT SCI 300	Human Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition

NUT SCI 427	Nutrigenomics and Advanced Nutrient Metabolism
NUT SCI 486	Medical Nutrition Therapy II: An Integrative and Functional Approach
Only one Psychology course may be used	
PSYCH 308	Physiological Psychology <sup>1</sup>
PSYCH 435	Psychopathology <sup>1</sup>
PSYCH 450	Health Psychology <sup>1</sup>
<b>Required laboratory courses (choose 3):</b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 324	Principles of Microbiology Laboratory
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
HUM BIOL 326	Medical Microbiology Lab
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
CHEM 301	Bio-Organic Chemistry Laboratory
CHEM 331	Biochemistry Laboratory

**Total Credits****57-60**

<sup>1</sup> A maximum of one PSYCH course can be applied to the major.

## Cytotechnology

- UW-Green Bay is affiliated with two schools of cytotechnology: the Mayo Clinic and UW-Madison.
- Students complete 92 credits at UW-Green Bay, including all general education requirements, and then take an 11-month, 32-credit clinical internship at one of the cooperating institutions.
- After completion of the internship, students will graduate with a degree in Human Biology and be eligible for professional certification.

Code	Title	Credits
<b>Supporting Courses</b>		<b>31-34</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	Principles of Chemistry II Laboratory	
MATH 104	Precalculus	
MATH 260	Introductory Statistics	
<b>Select one (of 3) options:</b>		
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		
<b>Select one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab	
<b>or</b>		
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	

**Upper-Level Courses****15-16**

**Select one course from three of the four areas:****Genetics:**

BIOLOGY 303	Genetics
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
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**Cell Biology:**

BIOLOGY 307	Cell Biology
BIOLOGY 323	Principles of Microbiology
HUM BIOL 323	Medical Microbiology

**Elective courses (choose 6 credits): <sup>1</sup>**

HUM BIOL 310	Human Genetics
HUM BIOL 315	Foundations of Neuroscience
HUM BIOL 318	Reproductive Biology
HUM BIOL 322	Epidemiology
HUM BIOL 323	Medical Microbiology
HUM BIOL 326	Medical Microbiology Lab
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 303	Genetics
BIOLOGY 304	Genetics Laboratory
BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 309	Evolutionary Biology
BIOLOGY 322	Environmental Microbiology
BIOLOGY 323	Principles of Microbiology
BIOLOGY 324	Principles of Microbiology Laboratory
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
NUT SCI 300	Human Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Nutrigenomics and Advanced Nutrient Metabolism
NUT SCI 486	Medical Nutrition Therapy II: An Integrative and Functional Approach
(Only) ONE Psychology course may be used for upper level electives.	
PSYCH 308	Physiological Psychology
PSYCH 435	Psychopathology
PSYCH 450	Health Psychology
<b>Cytotechnology Internship</b>	<b>32</b>
HUM BIOL 497	Internship <sup>2</sup>
<b>Total Credits</b>	<b>78-82</b>

- 1 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.
- 2 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.

## Athletic Training\*

Code	Title	Credits
<b>Supporting Courses</b>		<b>41-44</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	Principles of Chemistry II Laboratory	
HUM BIOL 210	Prevention and Treatment of Athletic Injuries	
HUM BIOL 221	Anatomy and Physiology I	
HUM BIOL 222	Anatomy and Physiology II	
MATH 260	Introductory Statistics	
PSYCH 102	Introduction to Psychology	
<b>First Aid/CPR</b>		
HUM BIOL 116	First Aid and Emergency Care Procedures (First Aid/CPR Requirement may be met with Red Cross Certification))	
<b>Healthcare Terminology (choose one):</b>		
HIMT 330	Healthcare I: Terminology & Body Systems	
NURSING 200	Fundamentals of Healthcare Terminology	
<b>Physics Options (choose one):</b>		
PHYSICS 103 & PHYSICS 203	Fundamentals of Physics I and Introductory Physics Lab I	
PHYSICS 201 & PHYSICS 203	Principles of Physics I and Introductory Physics Lab I	
<b>Upper-Level Courses:</b>		<b>26</b>
HUM BIOL 333	Principles of Sports Physiology	
HUM BIOL 343	Exercise Prescription and Evaluation	
HUM BIOL 344	Motor Learning and Performance	
HUM BIOL 351	Kinesiology	

HUM BIOL 360	Exercise Physiology
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism
HUM BIOL 451	Biomechanics
NUT SCI 300	Human Nutrition
<b>Psychology (choose one):</b>	
PSYCH 308	Physiological Psychology
PSYCH 321	Sport and Performance Psychology
PSYCH 435	Psychopathology
PSYCH 450	Health Psychology
<b>MAT courses: #</b>	
AT 551	Clinical Kinesiology
AT 601	Foundations of Athletic Training
AT 605	Therapeutic Interventions I
AT 610	Psychosocial Aspects of Healthcare
AT 620	Evaluation and Management of Acute/Emergent Conditions
AT 700	Evidence Based Practice I
AT 705	Therapeutic Interventions II
AT 710	Evaluation and Management of Lower Extremity Injuries
AT 760	Clinical Education I
<b>Total Credits</b>	

26

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

\* is an accelerated option - Integrated with graduate Master of Athletic Training program

## Human Biology Minor

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

- Applied Human Biology
- General Human Biology

### Applied Human Biology

Code	Title	Credits
<b>Supporting Courses</b>		<b>20-23</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	Principles of Chemistry II Laboratory	
<b>Anatomy and Physiology options (choose one):</b>		
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab	
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
<b>Upper-Level Courses</b>		<b>14-16</b>
<b>Molecular Biology or Biochemistry options (choose one):</b>		
BIOLOGY 407 & BIOLOGY 408	Molecular Biology and Molecular Biology Laboratory	
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory	

**Physiology options (choose one):**

BIOLOGY 346	Comparative Physiology
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism
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****34-39**

## General Human Biology

Code	Title	Credits
<b>Supporting Courses</b>		<b>14-23</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
<b>Anatomy and Physiology options (choose one):</b>		
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab	
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
<b>Chemistry options (choose one):</b>		
CHEM 211 & CHEM 212 & CHEM 213 & CHEM 214	Principles of Chemistry I and Principles of Chemistry II and Principles of Chemistry I Laboratory and Principles of Chemistry II Laboratory	
or		
CHEM 108 & CHEM 109	Survey of General, Organic and Biochemistry and Survey of General, Organic, and Biochemistry Laboratory	
<b>Upper-Level Courses</b>		<b>12-13</b>
<b>Choose one course from each of the following areas:</b>		
<b>Genetics</b>		
BIOLOGY 303	Genetics	
HUM BIOL 310	Human Genetics	
<b>Physiology</b>		
HUM BIOL 402	Human Physiology	
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	
<b>Nutrition</b>		
NUT SCI 300	Human Nutrition	
NUT SCI 350	Life Cycle Nutrition	
<b>Cell Biology</b>		
BIOLOGY 323	Principles of Microbiology	
BIOLOGY 307	Cell Biology	

**Total Credits****26-36**

## 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
- Human Biology Major with Health Science Emphasis Curriculum Guide

- Human Biology Major with Nutritional Sciences / Dietetics Emphasis Curriculum Guide
- Human Biology Major with General Emphasis Curriculum Guide
- Human Biology Major with Cytotechnology Emphasis Curriculum Guide

## Human Biology Major with Exercise Science Emphasis

An example: Four year plan for **Human Biology Major with Exercise Science Emphasis**

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
MATH 104	Precalculus ( if needed or First Year Seminar)	4
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
MATH 260	Introductory Statistics	4
WF 105	Research and Rhetoric	3
<b>Credits</b>		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
COMM 133 or ENGLISH 104	Fundamentals of Public Address (or Modern Language) or Introduction to Literature	3
HUM BIOL 351	Kinesiology	4
HUM BIOL 116	First Aid and Emergency Care Procedures	3
General Ed		3
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
HUM BIOL 333	Principles of Sports Physiology	3
Modern Language (if using this for requirement) or General Ed		3
General Ed		3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>18</b>
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 303 or BIOLOGY 307 or HUM BIOL 310	Genetics or Cell Biology or Human Genetics	3
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	4
Human Biology Upper Level Elective		3
General Ed		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
HUM BIOL 210	Prevention and Treatment of Athletic Injuries	3
NUT SCI 300	Human Nutrition	3
General Ed		3
Elective		3



Elective		3
	<b>Credits</b>	<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
General Ed		3
Elective		3
	<b>Credits</b>	<b>13-14</b>
<b>Spring</b>		
Human Biology Upper Level Elective		3
Capstone		1-3
General Ed		3
Elective		3
Elective		3
	<b>Credits</b>	<b>13-15</b>
	<b>Total Credits</b>	<b>122-125</b>

## Human Biology Major with Health Science Emphasis

An example: Four year plan for **Human Biology Major with Health Science Emphasis**

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
MATH 104	Precalculus	4
	<b>Credits</b>	<b>14</b>
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
MATH 260	Introductory Statistics	4
WF 105	Research and Rhetoric	3
	<b>Credits</b>	<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 323	Principles of Microbiology	3
BIOLOGY 324	Principles of Microbiology Laboratory	1
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	4
COMM 133 or ENGLISH 104	Fundamentals of Public Address (or Modern Language) or Introduction to Literature	3
General Ed		3
	<b>Credits</b>	<b>14</b>
<b>Spring</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics	3
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	4
Modern Language (if using this for requirement) or General Ed		3
Elective		3
	<b>Credits</b>	<b>13</b>

<b>Junior</b>		
<b>Fall</b>		
CHEM 330	Biochemistry	3
HUM BIOL 402	Human Physiology	3
PHYSICS 103	Fundamentals of Physics I	4
Human Biology Upper Level Lab		1-2
General Ed		3
<b>Credits</b>		<b>14-15</b>
<b>Spring</b>		
NUT SCI 300	Human Nutrition	3
PHYSICS 104	Fundamentals of Physics II	4
General Ed		3
Elective		3
<b>Credits</b>		<b>13</b>
<b>Senior</b>		
<b>Fall</b>		
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>16-17</b>
<b>Spring</b>		
Human Biology Upper Level Elective		3
Capstone		1-3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>13-15</b>
<b>Total Credits</b>		<b>114-118</b>

## Human Biology Major with Nutritional Sciences / Dietetics Emphasis

An example: Four year plan for **Human Biology Major with Nutritional Sciences/Dietetics Emphasis**

This is a representative plan. Check with your advisor to see that you meet the requirements for this emphasis.

Meet with your faculty mentor to see if you may be a candidate for the accelerated program.

120 credits necessary to graduate.

**Note: Students must have a grade of C or better in CHEM 211 and BIO 201 in order to declare their major in Nutritional Sciences/Dietetics Emphasis.**

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
NUT SCI 201	Survey of Nutrition Related Professions	1
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
CHEM 207	Laboratory Safety	1
MATH 104	Precalculus (if needed)	4
NUT SCI 198	First Year Seminar	3
<b>Credits</b>		<b>13</b>
<b>Spring</b>		
WF 100	First Year Writing (if needed)	3
PSYCH 102	Introduction to Psychology (or Introduction to Lifespan Development)	3
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
Gen Ed		3
<b>Credits</b>		<b>14</b>

**Sophomore****Fall**

NUT SCI 212	Science of Food Preparation	4
WF 105	Research and Rhetoric	3
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
General Ed		3

**Credits** **15**

**Spring**

MATH 260	Introductory Statistics	4
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
NUT SCI 300	Human Nutrition	3
General Ed		3

**Credits** **15**

**Junior****Fall**

HUM BIOL 323	Medical Microbiology	3
HUM BIOL 326	Medical Microbiology Lab	1
HUM BIOL 310	Human Genetics (or Genetics)	3
COMM 133	Fundamentals of Public Address	3
General Ed		3
General Ed		3

**Credits** **16**

**Spring**

NUT SCI 312	Quantity Food Production and Service	4
NUT SCI 350	Life Cycle Nutrition	3
CHEM 300	Bio-Organic Chemistry	3
CHEM 301	Bio-Organic Chemistry Laboratory	1
General Ed		3
General Ed		3

**Credits** **17**

**Senior****Fall**

NUT SCI 327	Nutritional Biochemistry	4
NUT SCI 421	Community and Public Health Nutrition (NUT SCI 621 for Accelerated Students)	3
NUT SCI 485	Medical Nutrition Therapy I: An Integrative and Functional Approach (NUT SCI 685 for Accelerated Students)	3
NUT SCI 487	Nutritional Science Seminar	1
Elective if needed		4

**Credits** **15**

**Spring**

NUT SCI 427	Nutrigenomics and Advanced Nutrient Metabolism (NUT SCI 627 for Accelerated Students)	3
NUT SCI 486	Medical Nutrition Therapy II: An Integrative and Functional Approach (NUT SCI 686 for Accelerated Students)	3
HUM BIOL 402	Human Physiology (or HUM BIOL 360/361 - fall only )	3
Elective if needed		3
Elective if needed		3

**Credits** **15**

**Total Credits** **120**

## Human Biology Major with General Emphasis

An example: Four year plan for **Human Biology Major with General Human Biology Emphasis**

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1

CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
MATH 104	Precalculus (if needed or First Year Seminar)	4
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
MATH 260	Introductory Statistics	4
WF 105	Research and Rhetoric	3
<b>Credits</b>		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics	3
COMM 133 or ENGLISH 104	Fundamentals of Public Address (or Modern Language) or Introduction to Literature	3
General Ed		3
Elective		3
<b>Credits</b>		<b>12</b>
<b>Spring</b>		
NUT SCI 300	Human Nutrition	3
Human Biology Upper Level Elective		3
Modern Language (if using this for requirement) or General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302)	4
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
Elective		3
<b>Credits</b>		<b>14-15</b>
<b>Spring</b>		
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	4
Human Biology Upper Level Elective		3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Senior</b>		
<b>Fall</b>		
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>16-17</b>
<b>Spring</b>		
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
Capstone		1-3
General Ed		3
Elective		3

Elective		3
	<b>Credits</b>	<b>14-17</b>
	<b>Total Credits</b>	<b>118-123</b>

## Human Biology Major with Cytotechnology Emphasis

An example: Four year plan for **Human Biology Major with Cytotechnology Emphasis**

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
MATH 104	Precalculus (if needed or First Year Seminar)	4
WF 105	Research and Rhetoric	3
	<b>Credits</b>	<b>17</b>
<b>Spring</b>		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
MATH 260	Introductory Statistics	4
General Ed		3
	<b>Credits</b>	<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics	3
ENGLISH 104	Introduction to Literature	3
General Ed		3
General Ed		3
	<b>Credits</b>	<b>12</b>
<b>Spring</b>		
NUT SCI 300	Human Nutrition	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
	<b>Credits</b>	<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
HUM BIOL 402	Human Physiology	3
Human Biology Upper Level Elective		3
General Ed		3
Elective		3
Elective		3
	<b>Credits</b>	<b>15</b>
<b>Spring</b>		
Human Biology Upper Level Elective		3
General Ed		3
General Ed		3
Elective		3
Elective		3
	<b>Credits</b>	<b>15</b>

<b>Senior</b>	
<b>Fall</b>	
Cytotechnology Internship	15
<b>Credits</b>	<b>15</b>
<b>Spring</b>	
Cytotechnology Internship	15
<b>Credits</b>	<b>15</b>
<b>Total Credits</b>	<b>121</b>

## Human Resource Management

(Bachelor of Business Administration)

The Human Resource Management major at UW-Green Bay's Cofrin School of Business offers both the General Emphasis and the SHRM-CP Professional Certification Emphasis.

### 1. General Emphasis:

- This emphasis provides a comprehensive understanding of human resource management principles and practices.
- Students in this track learn the strategic importance of HRM and how it creates value for the organization through all of the major HRM functions: recruitment and selection, employee development, performance management, and compensation and benefits.
- Through courses in employment law and employee relations, students study the complex nature of the employer-employee relationship and develop the knowledge and skills necessary to identify and address the legal, business, and ethical implications of managing people.
- The curriculum is designed to equip students with a broad understanding of people management, business fundamentals, and specialized HRM knowledge.
- Emphasis is placed on developing critical thinking, interpersonal, and evidence-based management skills essential for success in HRM roles.
- The emphasis includes general education courses, introductory-level business courses, HRM-focused upper-level courses, and a capstone course.

### 2. SHRM-CP Professional Certification Emphasis:

- This emphasis is tailored for students interested in pursuing the Society for Human Resource Management Certified Professional (SHRM-CP).
- In addition to covering the same substantive content as the General Emphasis, this track places specific emphasis on preparing students to take the SHRM-CP exam.
- The capstone experience in this emphasis comprises study of the SHRM Body of Applied Skills and Knowledge through the SHRM Learning System and culminates in students taking the SHRM-CP exam.
- Similar to the General Emphasis, students in this track must meet the same GPA requirements and complete the same core curriculum, with additional focus on exam preparation.

Overall, while both emphases are SHRM Academically Aligned and provide a solid foundation in HRM principles, the SHRM-CP Professional Certification Emphasis offers specialized preparation for those seeking certification.

### Entrance and Exit Requirements

Students can add a HRM major at any time with any number of credits through a simple online process. Students should contact their Professional Advisor listed under the Program Advisors on the right-hand side of the SIS to start the process. Students will be required to read and accept an Honor Code (pre-declaration form). For students adding a major offered in the Cofrin School of Business, a faculty mentor who specializes in their program will be listed under their Program Advisors in SIS.

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

## Major Area of Emphasis (p. 223)

Students must complete requirements in one of the following areas of emphasis: (p. 223)

- General (p. 223)
- Professional Certification (p. 223)

## Minor

Code	Title	Credits
<b>Required courses:</b>		<b>12</b>
HRM 262	Introduction to Human Resource Management	
HRM 465	Recruitment and Selection	
HRM 466	Employment Law	

HRM 468	Employee Relations	
<b>Elective courses (Choose six credits):</b>		<b>6</b>
COMM 335	Organizational Communication	
COMM 336	Theories of the Interview	
HRM 460	Employee Development and Training	
HRM 467	Compensation and Benefits Planning	
HRM 469	Performance Management and Analytics	
PSYCH 330	Social Psychology	
PSYCH 415	Industrial and Organizational Psychology	
PUB ADM 315	Public and Non-Profit Management	
PUB ADM 345	Human Resource and Risk Management	
HRM 470 & HRM 471	SHRM-CP Prep I and SHRM-CP Prep II	
<b>Total Credits</b>		<b>18</b>

## Faculty

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

**Allen Huffcutt**; Professor; Ph.D., Texas AM University\*

**Sampath Kumar**; Professor; Ph.D., University of Memphis, chair\*

**Aniruddha Pangarkar**; Associate Professor; Ph.D., Texas Tech University\*

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

**Md Tarique Newaz**; Assistant Professor; Ph.D., Texas Tech University\*

**Susan Craver**; Assistant Teaching Professor; M.B.A., University of Wisconsin - Madison

**Anup Nair**; Assistant Teaching Professor; M.B.A., Birla Institute of Technology and Science (India)

**Dylan Polkinghorne**; Assistant Teaching Professor; M.S., University of Wisconsin - Green Bay

## Human Resource Management Major

Major Area of Emphasis

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

- General
- Professional Certification

## General

Code	Title	Credits
<b>Supporting Courses</b>		<b>36-37</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
ENTRP 272	Introduction to Entrepreneurship	
HRM 262	Introduction to Human Resource Management	
PHILOS 227	Business Ethics	
SCM 200	Principles of Supply Chain Management	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	

ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics (choose one)</b>		
BUSAN 220 or MATH 260	Introduction to Business Statistics Introductory Statistics	
<b>Upper-Level Courses</b>		<b>36</b>
<b>Foundational Courses</b>		
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Principles of Marketing	
SCM 380	Project Management	
<b>Human Resource Management Required Courses</b>		
HRM 460	Employee Development and Training	
HRM 465	Recruitment and Selection	
HRM 466	Employment Law	
HRM 467	Compensation and Benefits Planning	
HRM 468	Employee Relations	
HRM 469	Performance Management and Analytics	
<b>Capstone Experience</b>		
MGMT 482	Capstone in Business Strategy	
<b>Total Credits</b>		<b>72-73</b>

## Professional Certification

Code	Title	Credits
<b>Supporting Courses:</b>		<b>36-37</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
ENTRP 272	Introduction to Entrepreneurship	
HRM 262	Introduction to Human Resource Management	
PHILOS 227	Business Ethics	
SCM 200	Principles of Supply Chain Management	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics (choose one):</b>		
BUSAN 220 or MATH 260	Introduction to Business Statistics Introductory Statistics	
<b>Upper-Level Courses</b>		<b>36</b>
<b>Foundational Courses:</b>		
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Principles of Marketing	
SCM 380	Project Management	
<b>Human Resource Management Required Courses:</b>		
HRM 466	Employment Law	



HRM 468	Employee Relations
<b>Human Resource Management Electives (choose three courses):</b>	
HRM 460	Employee Development and Training
HRM 465	Recruitment and Selection
HRM 467	Compensation and Benefits Planning
HRM 469	Performance Management and Analytics
<b>Capstone Experience:</b>	
HRM 470	SHRM-CP Prep I
HRM 471	SHRM-CP Prep II
<b>Total Credits</b>	
<b>72-73</b>	

We encourage students to advance their HR careers by registering for the Society for Human Resource Management Certified Professional (SHRM-CP) Exam upon completion of HRM 471. Please be advised that students are solely responsible for the SHRM-CP registration process and paying the SHRM-CP exam fee.

## Humanities

(Bachelor of Arts)

The Humanities is designed to help students develop a greater understanding of what it means to be human through the study of history, literature, philosophy, religion, languages, world cultures and civilizations. The Humanities program explores some of the central questions in life, such as the meaning of beauty, justice, and the “good life,” as well as the importance of language, culture and artistic expression.

The Humanities comprise those fields that study human creations of all sorts, including literary studies, creative writing, linguistics, history, ancient and modern languages, cultural studies and philosophy.

The Humanities **Major** offers three areas of emphasis:

- The **Ancient and Medieval Studies emphasis**. In this track students will study the cultures and civilizations of the ancient and medieval worlds through courses in history, literature and philosophy as well as through interdisciplinary courses.
- The **Digital and Public Humanities emphasis**. In this track students will engage in an interdisciplinary study of the humanities with an emphasis on how we think about, and through, digital and public spaces. Students will use their training in the humanities to create digital and public humanities projects that further the public's knowledge of culture, society, and history.
- The **World Cultures emphasis**. This track leverages the power of the humanities to broaden and deepen students' insight into the human condition through the study of other cultural perspectives with the aim of creating better informed, more empathetic and culturally proficient graduates, able to engage intelligently in world cultures and issues

The Humanities **Minor** offers seven areas of emphasis:

- One area emphasizes **World Cultures**.
- Another area emphasizes **Ancient and Medieval Studies**.
- Another area emphasizes the **Environmental Humanities**.
- Another area emphasizes **Humanities Online**.

While the factual content of Humanities courses ranges widely in subject matter, all courses emphasize a distinct set of broadly useful skills. Among these are the ability to express one's ideas in a clear, organized, well-reasoned, and grammatically correct manner in speech, writing, and new media; to think critically and analyze texts; to make arguments and present them effectively; to understand context (how history and culture shape us); to recognize and appreciate nuance and complexity of meaning; and to understand and appreciate cultural diversity.

Designed to provide a broader understanding of interdisciplinary contexts, a major or minor in the Humanities complements other courses of study. Besides being a natural accompaniment to majors or minors in History, Philosophy, English, French, German or Spanish, as well as First Nations Studies, Art and Design, Theatre, and Women's and Gender Studies, a degree in Humanities also enhances majors and minors in business, education, social work, the social sciences and the natural sciences.

In conjunction with other courses of study, a Humanities major or minor is an excellent preparation for many graduate programs in the humanities and in law, medicine or engineering. The general intellectual skills emphasized in Humanities courses and the flexibility and versatility they impart help graduates succeed in today's rapidly changing, increasingly global job market, where specific factual knowledge can quickly become outdated. The two of the most common career paths of Humanities majors are in the fields of education and business, but the skills acquired by Humanities students are applicable to nearly any career.

Students may also study abroad at other campuses across the globe and in the United States through UW-Green Bay’s participation in international exchange programs and the National Student Exchange. A wide selection of internships in the humanities and travel courses led by Humanities are another great option for obtaining academic credits and completing requirements.

Major Area of Emphasis (p. 228)

Students must complete one of the following areas of emphasis: (p. 228)

- Ancient and Medieval Studies (p. 228)
- Digital and Public Humanities (p. 228)
- World Cultures (p. 228)

Minor Areas of Emphasis (p. 232)

Students must complete one of the following areas of emphasis: (p. 232)

- Ancient and Medieval Studies (p. 232)
- Humanities Online (p. 232)
- Linguistics/Teaching English as a Second Language (p. 232)
- World Cultures (p. 232)

Curriculum Guide

An example: Four year plan for **Humanities Major with an Emphasis in Ancient and Medieval Studies**  
120 credits necessary to graduate.  
Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
HISTORY 101 or HISTORY 103	Foundations of Western Culture I or World Civilizations I	3
WF 105	Research and Rhetoric	3
Language Req Ancient and Medieval Languages or Modern Language		3
First Year Seminar		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
PHILOS 213 or PHILOS 218	Ancient Philosophy or Power of Philosophy: Ancient Greece to Renaissance	3
Language Req Ancient and Medieval Languages or Modern Language		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
Ancient/Medieval Category Course		3
General Ed		3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
Ancient/Medieval Category Course		3

Ancient/Medieval Category Course	3
Elective	3
Elective	3
Elective	3
<b>Credits</b>	<b>15</b>
<b>Spring</b>	
Ancient/Medieval Elective	3
Ancient/Medieval Elective	3
Elective	3
Elective	3
Elective	3
<b>Credits</b>	<b>15</b>
<b>Senior</b>	
<b>Fall</b>	
Ancient/Medieval Elective	3
Ancient/Medieval Elective	3
Elective	3
Elective	3
Elective	3
<b>Credits</b>	<b>15</b>
<b>Spring</b>	
Ancient/Medieval Elective	3
Elective	3
Elective	3
Elective	3
Elective	3
<b>Credits</b>	<b>15</b>
<b>Total Credits</b>	<b>120</b>

## Faculty

**Roshelle Amundson**; Teaching Professor; M.F.A., Goddard College

**Jennifer Lynn Ronsman**; Teaching Professor; M.F.A., Minnesota State University

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

**Jennifer Ham**; Professor; Ph.D., Rutgers University

**Derek S Jeffreys**; Professor; Ph.D., University of Chicago

**Mark Karau**; Professor; Ph.D., Florida State University

**Hye-Kyung Kim**; Professor; Ph.D., Marquette University

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

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

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

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

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

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

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

**Julialicia Case**; Associate Professor; Ph.D., University of Cincinnati

**Hernan Fernandez-Meardi**; Associate Professor; Ph.D., Universite de Montreal (Canada), chair

**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

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

**James Vincent Lowery**; Associate Professor; Ph.D., University of Mississippi

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

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

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**Jonas Gardsby**; Assistant Professor; Ph.D.

**Kristopher Purzycki**; Assistant Professor; Ph.D., University of Wisconsin - Milwaukee

**Christopher Williams**; Assistant Professor; Ph.D., University of Wisconsin - Milwaukee

**Forrest W Brooks**; Associate Teaching Professor; M.S., University of Wisconsin - Milwaukee\*

**Erica Wiest**; Assistant Teaching Professor; Ph.D., University of Wisconsin - Milwaukee

## Humanities Major

### Area of Emphasis

Students must complete one of the following areas of emphasis:

- Ancient and Medieval Studies
- Digital and Public Humanities
- World Cultures

### Ancient and Medieval Studies

#### Language Requirement

All Humanities majors are expected to fulfill the non-English language requirement by completing one of the following:

- Complete at least two college-level semesters of a non-English language. Students who have taken French, German or Spanish in high school or who have acquired a knowledge of the language elsewhere may receive credit for that preparation by passing an advanced-level UW-Green Bay course with a grade of "C" or better.
- Demonstrate the equivalent level of proficiency in a non-English language on a proficiency exam. NOTE: Students seeking to fulfill the language requirement through proficiency testing in French, German, or Spanish should contact the appropriate language coordinator. For skill assessment in other languages, students should contact the chair of Modern Languages

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ART 102	History of the Visual Arts: Ancient to Medieval	
HISTORY 101 or HISTORY 103	Foundations of Western Culture I World Civilizations I	
PHILOS 216 or PHILOS 218	Introduction to Asian Philosophy Power of Philosophy: Ancient Greece to Renaissance	
<b>Upper-Level Courses</b>		<b>24</b>
<b>Ancient and Medieval Religion and Philosophy (choose one course):</b>		
HUM STUD 326	Non-Western Religions	
PHILOS 309	Religion and Medieval Philosophy	
PHILOS 351	Happiness and the Good Life	
PHILOS 401	Plato and Aristotle	
PHILOS 403	Topics in Philosophy (with ancient or medieval topic)	
<b>Ancient and Medieval History (choose one course):</b>		
HISTORY 415	Living History and Reenactment for Public Historians	
HISTORY 421	Topics in Medieval History	
HUM STUD 330	Ancient and Medieval Cultures and Values	

HUM STUD 351	Interdisciplinary Themes in Humanities
<b>Ancient and Medieval Arts and Literature (choose one course)</b>	
ART 381	Art of the First Nations
ART 382	Precolumbian Art of Mesoamerica
ART 383	African Art
ART 384	Asian Art
HUM STUD 352	Literatures in Translation
<b>Electives (Take 15 credits from any of the above courses or internship or travel courses):</b>	
HUM STUD 497	Internship (with permission of Humanities Program Chair)
HUM STUD 499	Travel Course (with permission of Humanities Program Chair)
Or ENG, FRE, GERM, SPAN, HIS, PHI 499 (with permission from Humanities Program Chair)	

**Total Credits****33**

<sup>1</sup> Or other upper-level History course with medieval content

<sup>2</sup> These might include variable content courses with appropriate ancient or medieval topics such as HUM STUD 351, or offerings from other Humanities and/or its departments.

## Digital and Public Humanities

### Language Requirement

All Humanities majors are expected to fulfill the non-English language requirement by completing one of the following:

- Complete at least two college-level semesters of a non-English language. Students who have taken French, German or Spanish in high school or who have acquired a knowledge of the language elsewhere may receive credit for that preparation by passing an advanced-level UW-Green Bay course with a grade of "C" or better.
- Demonstrate the equivalent level of proficiency in a non-English language on a proficiency exam. NOTE: Students seeking to fulfill the language requirement through proficiency testing in French, German, or Spanish should contact the appropriate language coordinator. For skill assessment in other languages, students should contact the chair of Modern Languages.

Code	Title	Credits
<b>Supporting Courses:</b>		<b>9</b>
HUM STUD 200	Finding Humanity in the Digital World	
HUM STUD 201	Introduction to the Humanities	
<b>Lower-Level Elective (choose one course): <sup>1</sup></b>		
100 or 200-level ART course		
100 or 200-level ENGLISH course		
100 or 200-level FNS course		
100 or 200-level HISTORY course		
100 or 200-level HUM STUD course		
100 or 200-level PHILOS course		
<b>Upper-Level Courses: <sup>2</sup></b>		<b>24</b>
<b>Community Engagement/Internship (choose 3 credits):</b>		
ENGLISH 497	Internship	
FNS 497	Internship	
HISTORY 497	Internship	
HUM STUD 497	Internship	
PHILOS 497	Internship	
<b>Project-based Learning (choose 9 credits):</b>		
ENGLISH 324	Sheepshead Review Practicum	
ENGLISH 424	Book Editing Practicum	
GERMAN 425	German Translation Studies	
HISTORY 400	Voyageur Magazine Practicum	
HUM STUD 300	Intermediate Digital and Public Humanities	

SPANISH 454	Translation and Interpretation
<b>Digital or Public Humanities Inflected courses (choose 6 credits):</b>	
ENGLISH 324	Sheepshead Review Practicum
ENGLISH 327	Digital Platforms for Publishing
ENGLISH 328	UX Writing
ENGLISH 329	Placemaking and Writing
ENGLISH 424	Book Editing Practicum
HISTORY 399	Public History Methods
HISTORY 400	Voyageur Magazine Practicum
HISTORY 415	Living History and Reenactment for Public Historians
HISTORY 421	Topics in Medieval History
HUM STUD 300	Intermediate Digital and Public Humanities
<b>Electives (choose 6 credits):</b>	
300 or 400-level ENGLISH course	
300 or 400-level GERMAN course	
300 or 400-level HISTORY course	
300 or 400-level HUM STUD course	
300 or 400-level PHILOS course	
300 or 400-level SPANISH course	
<b>Total Credits</b>	

33

<sup>1</sup> excluding any First Year Seminar

<sup>2</sup> Courses may not be used to fulfill more than one requirement in the major. You may take the Humanities Practicum more than once if the topic is different. Students may have up to two internships.

## World Cultures

### Language Requirement

All Humanities majors are expected to fulfill the non-English language requirement by completing one of the following:

- Complete at least two college-level semesters of a non-English language. Students who have taken French, German or Spanish in high school or who have acquired a knowledge of the language elsewhere may receive credit for that preparation by passing an advanced-level UW-Green Bay course with a grade of "C" or better.
- Demonstrate the equivalent level of proficiency in a non-English language on a proficiency exam. NOTE: Students seeking to fulfill the language requirement through proficiency testing in French, German, or Spanish should contact the appropriate language coordinator. For skill assessment in other languages, students should contact the chair of Modern Languages.

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
<b>Choose one:</b>		
HUM STUD 100	Global Challenges and the Human Experience	
HUM STUD 201	Introduction to the Humanities	
<b>Choose one:</b>		
ENGLISH 218	World Literatures	
ENGLISH 219	World Literatures II	
HISTORY 101	Foundations of Western Culture I	
HISTORY 102	Foundations of Western Culture II	
HISTORY 103	World Civilizations I	
HISTORY 104	World Civilizations II	
PHILOS 101	Introduction to Philosophy	
PHILOS 213	Ancient Philosophy	
PHILOS 218	Power of Philosophy: Ancient Greece to Renaissance	
<b>Foreign Language Requirement*</b>		
<b>Choose one:</b>		

ENGLISH 206	Women in Literature
FNS 225	Introduction to First Nations Studies
HISTORY 207	Introduction to African-American History
HUM STUD 213	Ethnic Diversity in America Past and Present
PHILOS 216	Introduction to Asian Philosophy
<b>Upper-Level Courses</b>	
<b>Category 1: Global Encounters (6 credits) (At least one course must be a HUM STUD course)</b>	
ENGLISH 338	World Literatures
FNS 372	Indigenous Nations Oral and Storytelling Traditions
FNS 385	First Nations Intellectual Traditions
FRENCH 355	Le Monde Francophone
HUM STUD 383	Contemporary Cultural Issues
HUM STUD 360	Globalization and Cultural Conflict
SPANISH 357	Cultura Latina
SPANISH 329	Representative Spanish and Latin American Authors
SPANISH 351	Major Spanish and Latin American Fiction
SPANISH 355	Spanish and Latin American Cinema
<b>Category II: Western Cultures (6 credits) (At least one course must be a HUM STUD course)</b>	
HUM STUD 351	Interdisciplinary Themes in Humanities (Western Topic)
HUM STUD 356	German Culture
GERMAN 329	Representative German Authors
GERMAN 357	German Cinema
SPANISH 360	Spain Today
SPANISH 361	The Cultures of Spain
FRENCH 329	Representative French Authors
FRENCH 354	France Today
HISTORY 422	Topics in Early Modern European History (Crime and Mentalities)
ENGLISH 344	African American Literature
ENGLISH 331	Major American Prose Fiction
ENGLISH 431	Shakespeare
ENGLISH 322	Major Poetry
<b>Category III: Cultures Outside the West (6 credits) (At least one course must be a HUM STUD course)</b>	
DJS 363	Topics in Democracy and Justice (South Africa Topic)
FNS 385	First Nations Intellectual Traditions
HISTORY 356	History of Modern Africa
HUM STUD 326	Non-Western Religions
HUM STUD 343	International Cinema
HUM STUD 352	Literatures in Translation
HUM STUD 384	Topics in World Cultures
<b>Humanities in Action Capstone Experience (3 credits)</b>	
HUM STUD 497	Internship (with advisor permission)
HUM STUD 499	Travel Course
or ENGLISH 499	Travel Course
or FRENCH 499	Travel Course
or GERMAN 499	Travel Course
or HISTORY 499	Travel Course
or PHILOS 499	Travel Course
or SPANISH 499	Travel Course
<b>Elective Course (choose 3 credits) <sup>1</sup></b>	

**Total Credits****33**

<sup>1</sup> Choose any course listed above that does not fulfill another requirement

## Humanities Minors

### Area of Emphasis

Students must complete one of the following areas of emphasis:

- Ancient and Medieval Studies
- Humanities Online
- Linguistics/Teaching English as a Second Language
- World Cultures

### Ancient and Medieval Studies

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
<b>Choose two of the following:</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	
HISTORY 101 or HISTORY 103	Foundations of Western Culture I World Civilizations I	
HISTORY 102 or HISTORY 104	Foundations of Western Culture II World Civilizations II	
<b>Upper Level Courses (choose four courses):</b>		<b>12</b>
ART 381	Art of the First Nations	
ART 382	Precolumbian Art of Mesoamerica	
ART 383	African Art	
ART 384	Asian Art	
HISTORY 415	Living History and Reenactment for Public Historians	
HUM STUD 330	Ancient and Medieval Cultures and Values	
HUM STUD 351	Interdisciplinary Themes in Humanities (with Ancient topic)	
HUM STUD 352	Literatures in Translation	
PHILOS 351	Happiness and the Good Life	
PHILOS 401	Plato and Aristotle	
PHILOS 403	Topics in Philosophy (with Ancient topic)	
HISTORY 421	Topics in Medieval History	
PHILOS 309	Religion and Medieval Philosophy	
<b>Total Credits</b>		<b>18</b>

### Humanities Online

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
<b>Literature (Choose one course):</b>		
ENGLISH 104	Introduction to Literature	
ENGLISH 206	Women in Literature	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 217	Introduction to American Literature II	
ENGLISH 218	World Literatures	
ENGLISH 236	Multicultural American Literature	
<b>History (choose one course):</b>		
HISTORY 101	Foundations of Western Culture I	
HISTORY 102	Foundations of Western Culture II	
HISTORY 103	World Civilizations I	



HISTORY 104	World Civilizations II
HISTORY 205	American History to 1865
HISTORY 206	History of the United States from 1865 to the Present
HISTORY 207	Introduction to African-American History
<b>Cultures, Ethics, Values (choose one course):</b>	
FNS 225	Introduction to First Nations Studies
HUM STUD 213	Ethnic Diversity in America Past and Present
HUM STUD 201	Introduction to the Humanities
PHILOS 102	Contemporary Ethical Issues
PHILOS 103	Logic and Reasoning
PHILOS 227	Business Ethics
SPANISH 102	Introduction to the Spanish Language II
SPANISH 201	Intermediate Spanish Language I
SPANISH 202	Intermediate Spanish Language II
<b>Upper-Level Courses (Choose four courses):</b>	
ENGLISH 312	Topics in Creative Writing
ENGLISH 333	Literary Themes
ENGLISH 335	Literary Eras
ENGLISH 344	African American Literature
ENGLISH 345	LGBTQ Literature
ENGLISH 431	Shakespeare
ENGLISH 436	Major Author(s)
HISTORY 450	War and Civilization
HUM STUD 321	Sociolinguistics
HUM STUD 360	Globalization and Cultural Conflict
HUM STUD 375	Humanities, Business and Critical Thinking
HUM STUD 384	Topics in World Cultures
PHILOS 351	Happiness and the Good Life
SPANISH 329	Representative Spanish and Latin American Authors
<b>Total Credits</b>	

12

21

## Linguistics/Teaching English as a Second Language

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
HUM STUD 160	Introduction to Language	
<b>One year of a non-English language or equivalent proficiency</b>		
<b>Upper-Level Courses</b>		<b>12</b>
EDUC 315/515	Teaching English as a Second Language <sup>2</sup>	
HUM STUD 319/519	Second Language Acquisition & Assessment <sup>2</sup>	
HUM STUD 520	Language and Identity <sup>2</sup>	
HUM STUD 321/521	Sociolinguistics <sup>2</sup>	
<b>Requirement for licensure candidates</b>		
<b>Cross-Cultural Elective (choose 3 credits): <sup>1</sup></b>		
FNS 301	Oneida Language I	
FRENCH 497	Internship	
GERMAN 497	Internship	
HUM STUD 497	Internship	
HUM STUD 499	Travel Course	
SPANISH 497	Internship	
<b>Requirement for non-licensure candidates</b>		

HUM STUD 497	Internship	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> Another appropriate course or study abroad/internship experience may be substituted by adviser.

<sup>2</sup> Undergraduate students must be granted permission to enroll in graduate coursework. For more information, refer to the graduate catalog. (<http://catalog.uwgb.edu/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated/>)

## World Cultures

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
<b>Choose one:</b>		
HUM STUD 100	Global Challenges and the Human Experience	
HUM STUD 201	Introduction to the Humanities	
<b>Choose one:</b>		
ENGLISH 218	World Literatures	
ENGLISH 219	World Literatures II	
HISTORY 101	Foundations of Western Culture I	
HISTORY 102	Foundations of Western Culture II	
HISTORY 103	World Civilizations I	
HISTORY 104	World Civilizations II	
PHILOS 101	Introduction to Philosophy	
PHILOS 218	Power of Philosophy: Ancient Greece to Renaissance	
<b>Choose one:</b>		
ENGLISH 206	Women in Literature	
FNS 225	Introduction to First Nations Studies	
HISTORY 207	Introduction to African-American History	
HUM STUD 213	Ethnic Diversity in America Past and Present	
PHILOS 216	Introduction to Asian Philosophy	
<b>Upper-Level Courses (At least one course must be a HUM STUD course)</b>		<b>12</b>
<b>Category 1: Global Encounters (3 credits):</b>		
ENGLISH 338	World Literatures	
FNS 372	Indigenous Nations Oral and Storytelling Traditions	
FNS 385	First Nations Intellectual Traditions	
FRENCH 355	Le Monde Francophone	
HUM STUD 383	Contemporary Cultural Issues	
HUM STUD 360	Globalization and Cultural Conflict	
SPANISH 357	Cultura Latina	
SPANISH 329	Representative Spanish and Latin American Authors	
SPANISH 351	Major Spanish and Latin American Fiction	
SPANISH 355	Spanish and Latin American Cinema	
<b>Category II: Western Cultures (3 credits):</b>		
HUM STUD 351	Interdisciplinary Themes in Humanities (Western Topic)	
HUM STUD 356	German Culture	
GERMAN 329	Representative German Authors	
GERMAN 357	German Cinema	
SPANISH 360	Spain Today	
SPANISH 361	The Cultures of Spain	
FRENCH 329	Representative French Authors	
FRENCH 354	France Today	
HISTORY 422	Topics in Early Modern European History (Crime & Mentalities Topic)	
ENGLISH 344	African American Literature	
ENGLISH 431	Shakespeare	

ENGLISH 331	Major American Prose Fiction
ENGLISH 322	Major Poetry
<b>Category III: Cultures Outside the West (3 credits):</b>	
DJS 363	Topics in Democracy and Justice (South Africa Topic)
FNS 385	First Nations Intellectual Traditions
HISTORY 356	History of Modern Africa
HUM STUD 384	Topics in World Cultures
HUM STUD 326	Non-Western Religions
HUM STUD 343	International Cinema
HUM STUD 352	Literatures in Translation
<b>Elective Course (choose 3 credits):</b>	
Choose any course listed above that does not fulfill another requirement OR	
HUM STUD 497	Internship (with advisor permission)
HUM STUD 499	Travel Course
or ENGLISH 499	Travel Course
or FRENCH 499	Travel Course
or GERMAN 499	Travel Course
or HISTORY 499	Travel Course
or PHILOS 499	Travel Course
or SPANISH 499	Travel Course

**Total Credits****21**

## 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 are strongly encouraged to 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 Provost 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 area, and an appropriate array of supporting courses. Students should submit the proposal to the Associate Provost 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 Provost ([shermanc@uwgb.edu](mailto:shermanc@uwgb.edu)).

## Individual Major

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 are interdisciplinary in nature.

The Individual Major must also conform to all of the University's requirements for graduation and be approved by

- The Associate Provost
- At least one faculty advisor selected by the student
- The Individualized Learning Committee

It is highly recommended that students interested in an Individual Major have a **cumulative GPA of 3.5 or above**. All the necessary approvals for an Individual Major **must be completed no later than the end of your junior year**.

## Eight steps to developing an Individual Major

1. Identify your interests and research your career objectives and educational needs
  - a. Discuss your career plans with others (faculty, family, professional contacts).
  - b. Use the Internet and other resources to find additional information.
2. Discuss your plans with potential faculty advisors and then with the Associate Provost.
  - a. Contact a member of the faculty who is knowledgeable in the area of your Individual Major. The faculty member also should be willing to guide your studies and to recommend approval of your program.
  - b. After choosing your faculty advisor, discuss your plans with the Associate Provost. Students should bring the proposal to the Associate Provost the beginning of their junior year to ensure timely graduation.
3. Prepare your Individual Major proposal.
  - a. Work with your faculty advisor to prepare a proposal three to five pages typed, double-spaced. The proposal should describe and explain why and/or how an Individual Major will allow you to achieve your objectives.
4. Proposals should include the following:
  - a. Title (which will appear on your transcript)
  - b. Personal background: relevant experience and interests
  - c. Career goals
  - d. Explanation of why you want an Individual Major
  - e. Description of how the courses represent a cohesive program of study
  - f. Explanation of why the proposed Individual Major is unique from an existing major, a double major or a major/minor on campus o Examples of similar programs at other institutions
  - g. Timetable for completion
  - h. Post-graduate plans
5. List all courses you propose to complete for your Individual Major.
  - a. Divide your list into lower-level and upper-level courses. In creating the list, you should consult not only with your faculty advisor, but also with faculty teaching in programs in which you will be taking courses.
  - b. List the course number, credits and title, and anticipated completion date as shown in the example below.<sup>1</sup>
6. Your list must contain at least **30 upper-level credits** organized around an interdisciplinary theme. Keep in mind the **Individual Major is an interdisciplinary program**; your courses must come from at least two different academic areas/fields of study.
7. Get a letter of support from your faculty advisor.
  - a. If the draft proposal and the list of courses are acceptable to the faculty advisor(s), request a letter of support from the advisor(s) to include with the proposal. Letters should indicate that the faculty advisor is confident that you will be able to manage the major and that he or she is willing to serve as an advisor.
8. Discuss your proposal with the Associate Provost.
  - a. The Associate Provost will review your proposed program of study to assure it is clearly written, fulfills all University requirements, reflects the University emphasis on interdisciplinary study, and can be completed in a timely manner.
9. Submit your final proposal to the Associate Provost. The Associate Provost will schedule a meeting with the Individualized Learning Committee. The completed proposal should contain:
  - a. Your narrative
  - b. The list of courses and timeline for completing the Individual Major
  - c. An unofficial copy of your transcript
  - d. A letter or letters from the faculty member(s) who will be your advisor(s)

The Individualized Learning Committee will review your proposal and will:

- Approve the proposal;
- Request revision and resubmission of the proposal; or
- Deny the proposal

The Chair will notify you of the Committee's decision.

## Examples of completed Individual Major Programs:

- Sports Management
- Women's Health Issues
- Nutrition Ecology
- Environmental Health Management
- Cross Cultural Health Studies

<sup>1</sup> Courses, credits, and titles	When completed	Where taken
PSYCH 102 (3 cr) Psychology	Enrolled	UW-Green Bay
HUM STUD 201 (3 cr) Humanities	Spring '16	UW-Green Bay
ART 105 (3 cr) Drawing	Fall '17	UW-Oshkosh

## Faculty

**Courtney J Sherman**; Professor; D.M.A., Arizona State University

## Information Technology and Data Science

(Bachelor of Science)

The Information Technology & Data Science (ITADS) 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 Technology & Data Science provide qualified students with opportunities for faculty-supervised experience in professional settings outside the classroom. A major in Information Technology & Data 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 <https://www.uwgb.edu/international-education/>.

## Major Area of Emphasis (p. 239)

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

- Data Science
- Game Studies
- Information Technology

## Curriculum Guide

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

An example: Four year plan for **Information Technology & Data Science Major** (Data Science emphasis)  
120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
COMM 133	Fundamentals of Public Address	3
COMP SCI 201	Introduction to Computing & Internet Technologies	3
First Year Seminar		3
General Ed		3

General Ed		3
	<b>Credits</b>	<b>15</b>
<b>Spring</b>		
COMM 290	Communication Problems and Research Methods	3
COMP SCI 221	Database Design & Management	3
COMP SCI 256	Introduction to Software Design	3
General Ed		3
General Ed		3
	<b>Credits</b>	<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
MATH 260	Introductory Statistics	4
COMP SCI 231	Introduction to IT Operations	3
General Ed		3
Elective		3
	<b>Credits</b>	<b>13</b>
<b>Spring</b>		
INFO SCI 302	Introduction to Data Science	3
COMM 308	Information and Communication Technologies	3
General Ed		3
Elective		3
	<b>Credits</b>	<b>12</b>
<b>Junior</b>		
<b>Fall</b>		
COMP SCI 316	Advanced Software Design	3
General Ed		3
Elective		3
Elective		3
Elective		3
	<b>Credits</b>	<b>15</b>
<b>Spring</b>		
COMP SCI 358	Data Communication and Computer Networks	3
INFO SCI 410	Analytics and Information Problems	3
COMP SCI 451	Database Systems and Big Data Processing	3
General Ed		3
Elective		3
Elective		3
	<b>Credits</b>	<b>18</b>
<b>Senior</b>		
<b>Fall</b>		
COMM, COMP SCI, or INFO SCI upper level courses		6
Elective		3
Elective		3
Elective		3
	<b>Credits</b>	<b>15</b>
<b>Spring</b>		
INFO SCI 412	Data Mining and Predictive Analytics	3
General Ed		3
Elective		3
Capstone		2
Elective		3
	<b>Credits</b>	<b>14</b>
	<b>Total Credits</b>	<b>117</b>

## Faculty

**Mary D Bina**; Teaching Professor; B.F.A., University of Wisconsin - Milwaukee

**Shauna M Froelich**; Teaching Professor; JD, Marquette University

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

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

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

**Joseph Yoo**; Associate Professor; Ph.D., University of Texas

**Prakash Duraisamy**; Assistant Professor; Ph.D., University of North Texas

**Justin Kavlie**; Assistant Professor; Ph.D., University of North Carolina

# Information Technology and Data Science Major

## Area of Emphasis

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

- Data Science
- Game Studies
- Information Technology

## Data Science

Code	Title	Credits
<b>Supporting Courses</b>		<b>22</b>
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 221	Database Design & Management	
COMP SCI 231	Introduction to IT Operations	
COMP SCI 256	Introduction to Software Design	
COMM 133	Fundamentals of Public Address	
or COMM 237	Small Group Communication	
COMM 290	Communication Problems and Research Methods	
MATH 260	Introductory Statistics	
<b>Upper-level Courses</b>		<b>27</b>
COMM 308	Information and Communication Technologies	
COMP SCI 316	Advanced Software Design	
COMP SCI 358	Data Communication and Computer Networks	
COMP SCI 451	Database Systems and Big Data Processing	
INFO SCI 302	Introduction to Data Science	
INFO SCI 410	Analytics and Information Problems	
INFO SCI 412	Data Mining and Predictive Analytics	
2 Elective Courses - Six additional credits at the upper level in COMM, COMP SCI, or INFO SCI		
<b>Total Credits</b>		<b>49</b>

## Game Studies

Code	Title	Credits
<b>Supporting Courses</b>		<b>22</b>
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 221	Database Design & Management	
COMP SCI 231	Introduction to IT Operations	
COMP SCI 256	Introduction to Software Design	
COMM 290	Communication Problems and Research Methods	
MATH 260	Introductory Statistics	
<b>Choose one:</b>		
COMM 133	Fundamentals of Public Address	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>27</b>
INFO SCI 302	Introduction to Data Science	

COMM 308	Information and Communication Technologies	
COMM 430	Information, Media and Society	
COMP SCI 316	Advanced Software Design	
INFO SCI 341	Survey of Gaming and Interactive Media	
INFO SCI 342	Game Design	
INFO SCI 443	Game Development	
2 Elective Courses - 6 additional credits at the upper level in COMM, COMP SCI or INFO SCI		
<b>Total Credits</b>		<b>49</b>

## Information Technology

Code	Title	Credits
<b>Supporting Courses</b>		<b>22</b>
COMM 290	Communication Problems and Research Methods	
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 221	Database Design & Management	
COMP SCI 231	Introduction to IT Operations	
COMP SCI 256	Introduction to Software Design	
MATH 260	Introductory Statistics	
<b>Choose one:</b>		
COMM 133	Fundamentals of Public Address	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>27</b>
COMM 308	Information and Communication Technologies	
COMM 430	Information, Media and Society	
COMP SCI 316	Advanced Software Design	
COMP SCI 358	Data Communication and Computer Networks	
COMP SCI 361	Information Assurance and Security	
INFO SCI 302	Introduction to Data Science	
INFO SCI 410	Analytics and Information Problems	
<b>2 Elective Courses (choose 6 credits):</b>		
Six credits should be from upper-level courses in COMM, COMP SCI, or INFO SCI		
<b>Total Credits</b>		<b>49</b>

## International Business

This collaborative program between the Cofrin School of Business and the College of Arts, Humanities, and Social Sciences prepares students for successful careers into today's global economy. The program provides foundational understanding in business and economics, coupled with advanced skills development in language proficiency, cultural competency, and international business and economics. The minor in International Business differentiates students among their peers, and provides a gateway into an exciting professional career.

### Minor

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

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

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ACCTG 201	Principles of Financial Accounting	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
<b>Upper-Level Courses</b>		<b>15</b>



FIN 343	Corporation Finance
MGMT 389	Organizational Behavior
MKTG 322	Principles of Marketing
<b>International Courses</b>	
<b>Choose one of the following courses:</b>	
ECON 403	International Economics and Finance
FIN 445	International Financial Management
MKTG 421	International Marketing
<b>Choose one of the following courses:</b>	
FRENCH 367	Business French
GERMAN 420	Business German
HUM STUD 360	Globalization and Cultural Conflict
SPANISH 358	Latin America Today
SPANISH 359	The Cultures of the Americas
SPANISH 360	Spain Today
SPANISH 361	The Cultures of Spain

**Total Credits****24**

## Faculty

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

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

**Hernan Fernandez-Mearidi**; Associate Professor; Ph.D., Universite de Montreal (Canada)

**Matthew Geimer**; Associate Teaching Professor; J.D., University of Wisconsin - Madison

**Praneet Tiwari**; Associate Teaching Professor; M.S., University of North Texas\*

## Management

(Bachelor of Business Administration)

The Management major at UW-Green Bay provides students with in-depth knowledge in management through a rigorous curriculum with courses covering critical management topics such as leadership, organizational behavior, data science and decision-making, leading and functioning in teams, diversity, international business and globalization, change management and organizational culture.

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.

In the management major, students start by completing general education and introductory-level business courses. Additionally, students take courses that provide an overall understanding of business, such as the basics of Marketing, Accounting, Human Resources, Management and Finance among others. Finally, students take management-specific upper-level courses and complete a capstone course prior to applying for graduation.

The Management major has expert faculty who use a variety of pedagogical practices and connect the classroom to the real-world. Students are also encouraged to complete internships for credit.

### Entrance and Exit Requirements

Students can add a Management major at any time with any number of credits through a simple online process. Students should contact their Professional Advisor listed under the Program Advisors on the right-hand side of the SIS to start the process. Students will be required to read and accept an Honor Code (pre-declaration form). For students adding a major offered in the Cofrin School of Business, a faculty mentor who specializes in their program will be listed under their Program Advisors in SIS.

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

## Accelerated Track for Undergraduate Students

Undergraduate students in the Cofrin School of Business, in majors such as Accounting, Finance, Management, and Marketing, can take up to nine graduate credits at the undergraduate level from general emphasis degree electives as part of our accelerated track. The courses available include ENTRP 573, ENTRP 686, FIN 646, BUS ADM 635, BUS ADM 570, and MKTG 624. Please consult your undergraduate advisor and the Graduate Studies Office before choosing this option.

### Major\*

Code	Title	Credits
<b>Supporting Courses</b>		<b>36-37</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
ENTRP 272	Introduction to Entrepreneurship	
HRM 262	Introduction to Human Resource Management	
PHILOS 227	Business Ethics	
SCM 200	Principles of Supply Chain Management	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics (choose one):</b>		
BUSAN 220 or MATH 260	Introduction to Business Statistics Introductory Statistics	
<b>Upper-Level Courses</b>		<b>36</b>
<b>Foundational courses:</b>		
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Principles of Marketing	
SCM 380	Project Management	
<b>Management Required Courses:</b>		
BUSAN 370	Data Science for Managers	
MGMT 452	Teams	
MGMT 460	Leading Innovation and Change	
MGMT 472	Leadership Development	
<b>Management Elective Courses (choose two):</b>		
ECON 485	Managerial Economics	
MGMT 380	International Business Management	
MGMT 461	Diversity in Organizations	
MGMT 479	Organizational Culture & Design	
MGMT 497	Internship	
<b>Accelerated Graduate Courses (choose 9 credits): #</b>		<b>0-9</b>
BUSAN 570	Data Science for Managers	
BUSAN 635	Foundations of Strategic Information Management	
ENTRP 573	Entrepreneurial Finance	
ENTRP 686	Design Thinking and Developing Business Models	
FIN 646	Advanced Corporation Finance	
MKTG 624	Research Methods	
<b>Capstone Experience</b>		<b>3</b>

MGMT 482	Capstone in Business Strategy	
<b>Total Credits</b>		<b>75-85</b>

- \* includes an Accelerated option - Integrated with graduate Management program
- # Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the graduate Management office or refer to the graduate catalog (<http://catalog.uwgb.edu/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated/>).

## Minor

Code	Title	Credits
<b>Lower-Level Courses (choose one):</b>		<b>3</b>
BUS ADM 202	Introduction to Business	
HRM 262	Introduction to Human Resource Management	
<b>Upper-Level Courses:</b>		<b>15</b>
<b>Required courses:</b>		
MGMT 389	Organizational Behavior	
MGMT 472	Leadership Development	
MGMT 452	Teams	
<b>Choose any two of the following:</b>		
BUSAN 370	Data Science for Managers	
MGMT 460	Leading Innovation and Change	
MGMT 461	Diversity in Organizations	
<b>Total Credits</b>		<b>18</b>

## Faculty

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

**Allen Huffcutt**; Professor; Ph.D., Texas AM University\*

**Sampath Kumar**; Professor; Ph.D., University of Memphis, chair\*

**Aniruddha Pangarkar**; Associate Professor; Ph.D., Texas Tech University\*

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

**Md Tarique Newaz**; Assistant Professor; Ph.D., Texas Tech University\*

**Susan Craver**; Assistant Teaching Professor; M.B.A., University of Wisconsin - Madison

**Anup Nair**; Assistant Teaching Professor; M.B.A., Birla Institute of Technology and Science (India)

**Dylan Polkinghorne**; Assistant Teaching Professor; M.S., University of Wisconsin - Green Bay

## Marketing

(Bachelor of Business Administration)

The Marketing major in UW-Green Bay's Cofrin School of Business provides students with in-depth knowledge in marketing through a rigorous curriculum with courses covering a wide range of topics, such as digital marketing, international marketing, sales, consumer behavior, social media marketing, advertising, and marketing strategy.

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.

In the marketing major students start by taking general education and introductory-level business courses. Additionally, students take courses that provide an overall understanding of business, such as the basics of Marketing, Accounting, Human Resources, Management and Finance among others. Finally, students take marketing-specific upper-level courses and complete a capstone course, prior to applying for graduation.

The Marketing faculty are experts in their field who use a variety of pedagogical practices and connect the classroom to the real-world. Students are also encouraged to complete internships for credit.

### Entrance and Exit Requirements

Students can add a Marketing major at any time with any number of credits through a simple online process. Students should contact their Professional Advisor listed under the Program Advisors on the right-hand side of the SIS to start the process. Students will be required to read and accept an Honor Code (pre-declaration form). For students adding a major offered in the Cofrin School of Business, a faculty mentor who specializes in their program will be listed under their Program Advisors in SIS.

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

## Accelerated Track for Undergraduate Students

Undergraduate students in the Cofrin School of Business, in majors such as Accounting, Finance, Management, and Marketing, can take up to nine graduate credits at the undergraduate level from general emphasis degree electives as part of our accelerated track. The courses available include ENTRP 573, ENTRP 686, FIN 646, BUS ADM 635, BUS ADM 570, and MKTG 624. Please consult your undergraduate advisor and the Graduate Studies Office before choosing this option.

## Major\*

Code	Title	Credits
<b>Supporting Courses</b>		<b>36-37</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
HRM 262	Introduction to Human Resource Management	
PHILOS 227	Business Ethics	
ENTRP 272	Introduction to Entrepreneurship	
SCM 200	Principles of Supply Chain Management	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics (choose one):</b>		
BUSAN 220 or MATH 260	Introduction to Business Statistics Introductory Statistics	
<b>Upper-Level Courses</b>		<b>36</b>
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Principles of Marketing	
SCM 380	Project Management	
<b>Marketing Required Courses</b>		
MKTG 345	Digital Marketing	
MKTG 421	International Marketing	
MKTG 423	Advertising	
MKTG 428	Consumer Behavior	
<b>Marketing Elective Courses (2 of the following courses):</b>		
MKTG 327	Selling and Sales Management	
MKTG 424	Research Methods	
MKTG 426	Marketing Strategy	
MKTG 447	Social Media Marketing and Analytics	

MKTG 497	Internship	
<b>Accelerated Graduate Courses (choose 9 credits): #</b>		<b>0-9</b>
ENTRP 573	Entrepreneurial Finance	
ENTRP 686	Design Thinking and Developing Business Models	
BUSAN 570	Data Science for Managers	
BUSAN 635	Foundations of Strategic Information Management	
FIN 646	Advanced Corporation Finance	
MKTG 624	Research Methods	
<b>Capstone Experience</b>		<b>3</b>
MGMT 482	Capstone in Business Strategy	
<b>Total Credits</b>		<b>75-85</b>

\* includes an Accelerated option - Integrated with graduate Management program

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

## Minor

Code	Title	Credits
<b>Required courses:</b>		<b>12</b>
MKTG 322	Principles of Marketing	
MKTG 345	Digital Marketing	
MKTG 426	Marketing Strategy	
MKTG 428	Consumer Behavior	
<b>Choose any 2 of the following:</b>		<b>6</b>
MKTG 327	Selling and Sales Management	
MKTG 423	Advertising	
MKTG 447	Social Media Marketing and Analytics	
MKTG 421	International Marketing	
MKTG 424	Research Methods	
Any 400-level DESIGN ARTS class (3 Cr.)		
Any 400-level COMM class (3 Cr.)		
<b>Total Credits</b>		<b>18</b>

## Faculty

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

**Allen Huffcutt**; Professor; Ph.D., Texas AM University\*

**Sampath Kumar**; Professor; Ph.D., University of Memphis, chair\*

**Aniruddha Pangarkar**; Associate Professor; Ph.D., Texas Tech University\*

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

**Md Tarique Newaz**; Assistant Professor; Ph.D., Texas Tech University\*

**Susan Craver**; Assistant Teaching Professor; M.B.A., University of Wisconsin - Madison

**Anup Nair**; Assistant Teaching Professor; M.B.A., Birla Institute of Technology and Science (India)

**Dylan Polkinghorne**; Assistant Teaching Professor; M.S., University of Wisconsin - Green Bay

## Mathematics & Statistics

(Bachelor of Science)

The Mathematics discipline has programs of study in two emphasis areas: mathematics and statistics.

Students choosing the emphasis in mathematics will focus their studies in a discipline which has been an important part of our intellectual heritage for centuries. Students select this area of emphasis if they are interested in mathematics for its own sake (pure mathematics) or as a tool for analyzing and solving real-world problems (applied mathematics). Graduates may use their skills in many careers, including fields such as secondary education and engineering. Other typical areas of employment traditional for mathematicians are those requiring physics. Today, mathematical techniques are required in social, industrial, and management realms as well.

The emphasis in statistics provides applied courses in experimental design, multivariate statistical analysis, and applied regression analysis. Students also gain an extensive background in statistical computing. Students who wish to enter actuarial professions may prepare for the first two actuarial examinations by completing the calculus sequence, linear algebra sequence, and statistical theory sequence. Students who concentrate studies in statistics may find employment in business, industry, and government, as well as pursue further professional training in graduate school.

### Program Entrance Requirements

The University of Wisconsin System placement examination in mathematics is used to advise entering freshmen about the level at which they should enter university courses. In rare cases, a student who has been accelerated and has mastery of calculus may, with advice of faculty, enter Calculus and Analytic Geometry II (MATH 203). Upon earning a “C” or better in MATH 203, an additional four credits are granted for MATH 202.

Credits for calculus at UW-Green Bay may also be awarded for satisfactory performance on an AP exam. More details are available at <https://www.uwgb.edu/testing-services/credit-exams/ap-exams/>.

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 (p. 247)

Students must complete requirements in one of the following areas of emphasis: (p. 247)

- Mathematics (p. 247)
- Statistics (p. 247)

## Minors (p. 248)

- Actuarial Science (<https://www.uwgb.edu/mathematics/minor-requirements/actuarial-science/>)
- Mathematics Minor: Students must complete requirements in one of the following areas of emphasis:
  - Mathematics (<https://www.uwgb.edu/mathematics/minor-requirements/mathematics-emphasis/>)
  - Applied Mathematics
  - Statistics (<https://www.uwgb.edu/mathematics/minor-requirements/statistics-emphasis/>)

## Curriculum Guides (p. 249)

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. (p. 249)

- Mathematics Emphasis (p. 249)
- Statistics Emphasis (p. 249)

## Faculty

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

**Green Bay**

**Yongjun Yang**; Associate Professor; Ph.D., Colorado School of Mines

**Sheboygan**

**Megumi Onoda**; Associate Professor; M.S., Southeastern Louisiana University

**Manitowoc**

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

**Sheboygan**

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

**Green Bay**

<b>Mark Norfleet</b> ; Assistant Professor; Ph.D., University of Texas-Austin	<b>Green Bay</b>
<b>Dhanamalee Bandara</b> ; Assistant Professor; Ph.D., Texas Tech University	<b>Green Bay</b>
<b>Sungsu Kim</b> ; Assistant Professor; Ph.D., University of California-Riverside	<b>Green Bay</b>
<b>Mary E Guy</b> ; Associate Teaching Professor; M.S., University of Wisconsin-Oshkosh	<b>Green Bay</b>
<b>Synde Kraus</b> ; Associate Teaching Professor; M.S., Saginaw State University	<b>Sheboygan</b>
<b>Terrisa Deprez</b> ; Assistant Teaching Professor; M.S., University of Wisconsin-Oshkosh	<b>Green Bay</b>
<b>Katie Burke</b> ; Assistant Teaching Professor; Ph.D., University of Iowa	<b>Green Bay</b>
<b>Keshab Raj Adhikari</b> ; Assistant Teaching Professor; M.Ed., Tribhuvan University	<b>Green Bay</b>
<b>Ruth Hayden</b> ; Assistant Teaching Professor; M.S., University of Wisconsin-Milwaukee	<b>Green Bay</b>
<b>Ari Kline</b> ; Assistant Teaching Professor; M.S., DePaul University	<b>Green Bay</b>

## Mathematics Major

### Area of Emphasis

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

- Mathematics
- Statistics

### Mathematics

Code	Title	Credits
<b>Supporting Courses</b>		<b>16</b>
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>27</b>
MATH 305	Ordinary Differential Equations	
MATH 314	Proofs in Number Theory and Topology	
MATH 320	Linear Algebra and Matrix Theory	
MATH 323	Analysis	
MATH 328	Abstract Algebra	
MATH 355	Applied Mathematical Optimization	
MATH 385	Foundations of Geometry	
<b>Elective Courses (choose one of the following):</b>		
MATH 406	Partial Differential Equations	
MATH 410	Complex Analysis	
MATH 492	Special Topics in Mathematics	
<b>Total Credits</b>		<b>43</b>

### Statistics

Code	Title	Credits
<b>Supporting Courses</b>		<b>16</b>
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>31</b>

MATH 306	Statistical Programming
MATH 314	Proofs in Number Theory and Topology
MATH 320	Linear Algebra and Matrix Theory
MATH 323	Analysis
MATH 329	Applied Regression Analysis
MATH 355	Applied Mathematical Optimization
MATH 360	Theory of Probability
MATH 361	Mathematical Statistics
<b>Elective Courses (choose one of the following):</b>	
MATH 430	Design of Experiments
MATH 431	Multivariate Statistical Analysis
MATH 492	Special Topics in Mathematics

**Total Credits****47**

## Mathematics Minors

- Actuarial Science
- Mathematics Minor: Students must complete requirements in one of the following areas of emphasis:
  - Mathematics
  - Applied Mathematics
  - Statistics

## Actuarial Science Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>25</b>
ACCTG 201	Principles of Financial Accounting	
ECON 202	Macro Economic Analysis	
ECON 203	Micro Economic Analysis	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>12</b>
FIN 343	Corporation Finance	
MATH 306	Statistical Programming	
MATH 360	Theory of Probability	
MATH 361	Mathematical Statistics	
<b>Total Credits</b>		<b>37</b>

## Mathematics

Code	Title	Credits
<b>Supporting Courses</b>		<b>16</b>
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>10-11</b>
MATH 314	Proofs in Number Theory and Topology	
MATH 320	Linear Algebra and Matrix Theory	
<b>Elective Courses (choose at least 1 courses of the following):</b>		
MATH 323	Analysis	
MATH 328	Abstract Algebra	



MATH 385	Foundations of Geometry	
MATH 410	Complex Analysis	
MATH 492	Special Topics in Mathematics	
<b>Total Credits</b>		<b>26-27</b>

## Applied Mathematics

Code	Title	Credits
<b>Supporting Courses</b>		<b>16</b>
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>11</b>
MATH 305	Ordinary Differential Equations	
MATH 320	Linear Algebra and Matrix Theory	
<b>Elective Courses (choose at least 1 of the following):</b>		
MATH 355	Applied Mathematical Optimization	
MATH 406	Partial Differential Equations	
MATH 410	Complex Analysis	
MATH 492	Special Topics in Mathematics	
<b>Total Credits</b>		<b>27</b>

## Statistics

Code	Title	Credits
<b>Supporting Courses</b>		<b>16</b>
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		<b>13-15</b>
MATH 306	Statistical Programming	
MATH 320	Linear Algebra and Matrix Theory	
<b>Elective Courses (choose at least 2 courses from the following):</b>		
MATH 329	Applied Regression Analysis	
MATH 360	Theory of Probability	
MATH 361	Mathematical Statistics	
MATH 430	Design of Experiments	
MATH 431	Multivariate Statistical Analysis	
<b>Total Credits</b>		<b>29-31</b>

## 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
- Statistics Emphasis

### Mathematics

An example: Four year plan for **Mathematics Major with Mathematics Emphasis**

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
MATH 202	Calculus and Analytic Geometry I	4
MATH 260	Introductory Statistics	4
First Year Seminar		3
General Ed		3
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
MATH 203	Calculus and Analytic Geometry II	4
MATH 314	Proofs in Number Theory and Topology	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
MATH 209	Multivariate Calculus	4
General Ed		3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MATH 320	Linear Algebra and Matrix Theory	4
General Ed		3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
MATH 305	Ordinary Differential Equations	4
MATH 328	Abstract Algebra	3
General Ed		3
Elective		3
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MATH 355	Applied Mathematical Optimization	3
MATH 385	Foundations of Geometry	3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
MATH 323	Analysis	4
Elective		3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
Math Upper Level Elective	MATH 406 (Odd year); MATH 410 (Even year)	3
Elective		3
Elective		3
Elective		3

Elective	3
<b>Credits</b>	<b>15</b>
<b>Total Credits</b>	<b>124</b>

## Statistics

An example: Four year plan for **Mathematics Major with Statistics Emphasis**

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
MATH 202	Calculus and Analytic Geometry I	4
MATH 260	Introductory Statistics	4
First Year Seminar		3
General Ed		3
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
MATH 203	Calculus and Analytic Geometry II	4
MATH 306	Statistical Programming	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
MATH 209	Multivariate Calculus	4
General Ed		3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MATH 314	Proofs in Number Theory and Topology	3
MATH 320	Linear Algebra and Matrix Theory	4
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
MATH 323 or MATH 329	Analysis (Only Odd years. Take MATH 329 otherwise.) or Applied Regression Analysis	4
MATH 360	Theory of Probability (Only Even years. Take an elective otherwise.)	3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MATH 355	Applied Mathematical Optimization	3
MATH 361	Mathematical Statistics (Only Odd years. Take an elective otherwise.)	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
MATH 329 or MATH 323	Applied Regression Analysis (Only Even years. Take MATH 323 otherwise.) or Analysis	4
MATH 360	Theory of Probability (Only Even years. Take an elective otherwise.)	3
Elective		3

Elective		3
Elective		3
Credits		16
Spring		
MATH 361	Mathematical Statistics (Only Odd years. Take an elective otherwise.)	3
Math Upper-level Elective	MATH 430 (Even year); MATH 431 (Odd year)	4
Elective		3
Elective		3
Elective		3
Credits		16
Total Credits		125

## Mechanical Engineering

(Bachelor of Science)

### UW-Green Bay Engineering

One of the fastest-growing regions in the state and the Midwest for engineering jobs, Northeast Wisconsin will see tremendous growth in the need for and recruitment of new engineers. This region has the most open positions for engineers in the state and has seen an 18% increase in demand for engineers since 2010. Engineering as a career focuses on theoretical aspects of mathematical, scientific and engineering principals. New professionals with a Bachelor of Science in Mechanical Engineering from UW-Green Bay will be perfectly-timed and well-prepared to meet the swell in demand for engineers, leading to high-paying, rewarding careers in some of the region's most sought after employers.

### Mechanical Engineering

The University of Wisconsin-Green Bay is proud to be home of the only Mechanical Engineering program in Northeast Wisconsin. Part of the College of Science, Engineering and Technology (CSET) and offered through the (<https://www.uwgb.edu/mechanical-engineering/stem-center/>) Richard J. Resch School of Engineering (RSE), the Bachelor of Science (B.S.) in Mechanical Engineering is designed as a cutting-edge program that will offer students individualized attention from award-winning professors, a hands-on education with state-of-the-art equipment, and opportunities for research and internships with some of the largest companies and employers in the region. The UW-Green Bay Mechanical Engineering program is housed in the newly constructed STEM Innovation Center building.

Mechanical engineering is a diverse and flexible engineering discipline. Mechanical engineers work in number of fields including design of machinery, controls, vibrations and acoustics, power generation, renewable energy, energy conservation, fluid flow and heat transfer applications, and air-conditioning. The program synthesizes math, science, engineering science, and engineering design. The program provides electives in several general areas, including thermal-sciences, mechanical design and manufacturing, robotics and automation, mechanical and environmental systems, and renewable energy. Students begin the practice of design in their freshman year and integrate it throughout their programs which culminate in a team-oriented capstone design project in the senior year. The program is geared to prepare students for the lifelong practice of mechanical engineering and for immediate entry to positions in industry or further studies in graduate schools.

Students will benefit from relationships with local technical colleges, and local industry to complete a B.S. in engineering in the Northeast Wisconsin area. Students may start earning their degree at UW-Green Bay or local technical colleges to give maximum flexibility in degree completion. In addition, the Northeast Wisconsin Educational Resource Alliance, NEW ERA, has established advisory boards linking leaders in regional industry and participating institutions to the major. Through these relationships students will have many opportunities for internships, co-op experiences, and employment after graduation.

### Mechanical Engineering Program Learning Outcomes

1. Be employed as a mechanical engineer and perform all functions assigned to a mechanical engineer including completing engineering designs and other applications using both practical and theoretical knowledge characterized by their interdisciplinary strengths.
2. Function effectively both as a leader and as a mentor of project teams, demonstrating effective communication skills and ethical behavior.
3. Achieve positions of increased responsibility within an organization and practice continued education through advanced degree or certificate programs or participation in continuing education in engineering or related professional fields.
4. Adapt to changing industrial and technological advancements and be committed to continuous improvement.

### Contact

For more information contact:

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or

Patricia Terry, Ph.D.

Chair, Richard J. Resch School of Engineering

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## Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>33-39</b>
ENGR 236	Technical Writing and Information Literacy	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
MATH 209	Multivariate Calculus	
MATH 260	Introductory Statistics	
ME 104	Engineering Graphics	
ME 204	Introduction to MATLAB Programming	
MET 207	Computer Aided Design	
PHYSICS 202	Principles of Physics II	
PHYSICS 204	Introductory Physics Lab II	
<b>Chemistry options (choose one):</b>		
CHEM 211	Principles of Chemistry I	
& CHEM 212	and Principles of Chemistry II	
& CHEM 213	and Principles of Chemistry I Laboratory	
& CHEM 214	and Principles of Chemistry II Laboratory	
or ME 206	Chemistry for Engineers	
<b>Fundamentals Courses</b>		<b>16</b>
ME 201	Engineering Materials	
ME 213	Mechanics I	
ME 214	Mechanics II	
ME 216	Basic and Green Manufacturing Processes	
ME 220	Mechanics of Materials	
ME 221	Mechanics of Materials Lab	
<b>Upper-Level Courses</b>		
<b>Supporting Courses</b>		<b>7</b>
MATH 305	Ordinary Differential Equations	
ME 326	Numerical Methods	
<b>Fundamentals Courses</b>		<b>6</b>
ME 308	Electrical and Electronic Circuits	
ME 312	Engineering Measurements	
ME 313	Engineering Measurements Lab	
<b>Advanced Courses</b>		<b>23</b>
ME 324	Engineering Thermodynamics	
ME 336	Fluids	
ME 337	Fluids Lab	
ME 340	Analysis of Dynamic Systems	
ME 408	Finite Element Analysis	
ME 420	Machine Component Design I	
ME 430	Heat Transfer	
ME 431	Thermal Lab	
ME 432	Automatic Controls	
<b>Capstone Requirement</b>		<b>3</b>

ME 460	Senior Design	
<b>Technical Electives (choose three courses):</b>		<b>9</b>
ET 360	Project Management	
MET 385	Robotics	
MET 390	Mechatronics	
ET 400 or ME 494	Co-op/Internship in Engineering Technology Co-op	
ME 334	Industrial Decision Processes	
ME 344	Mechanical Vibration	
ME 422	Machine Component Design II	
ME 498	Independent Study	
<b>Total Credits</b>		<b>97-103</b>

## Curriculum Guide

The following curriculum guide is for a four-year **Mechanical Engineering** degree program and is subject to change without notice. Students should consult their program advisor to ensure that they have the most accurate and up-to-date information available.

Total **123** credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
MATH 202	Calculus and Analytic Geometry I	4
ME 104	Engineering Graphics	1
ME 206	Chemistry for Engineers	4
First Year Seminar (FYS)		3
General Education		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
MATH 203	Calculus and Analytic Geometry II	4
MATH 260	Introductory Statistics	4
ME 204	Introduction to MATLAB Programming	3
General Education		3
<b>Credits</b>		<b>14</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENGR 236	Technical Writing and Information Literacy	3
MATH 209	Multivariate Calculus	4
ME 201	Engineering Materials	3
General Education		3
ME 213	Mechanics I	3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ME 214	Mechanics II	3
ME 216	Basic and Green Manufacturing Processes	3
ME 220	Mechanics of Materials	3
ME 221	Mechanics of Materials Lab	1
General Education		3
General Education		3
<b>Credits</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
MATH 305	Ordinary Differential Equations	4
ME 326	Numerical Methods	3
ME 308	Electrical and Electronic Circuits	3
PHYSICS 202 & PHYSICS 204	Principles of Physics II and Introductory Physics Lab II	5
<b>Credits</b>		<b>15</b>

<b>Spring</b>		
ME 312	Engineering Measurements	2
ME 313	Engineering Measurements Lab	1
ME 324	Engineering Thermodynamics	3
ME 340	Analysis of Dynamic Systems	3
Technical Elective I		3
General Education		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ME 336	Fluids	3
ME 337	Fluids Lab	1
ME 408	Finite Element Analysis	3
ME 420	Machine Component Design I	3
Technical Elective II		3
General Education		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ME 430	Heat Transfer	3
ME 431	Thermal Lab	1
ME 460	Senior Design	3
Technical Elective III		3
General Education		3
General Education		3
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>123</b>

Technical Electives (choose any three):

1. ME 422 Machine Component Design II (3 s.h.)
2. ME 432 Automatic Controls (3 s.h.)
3. ENGR 498 Independent Study (1-4 s.h.)
4. ET 360 Project Management (3 s.h.)
5. MET 385 Robotics (3 s.h.)
6. ET 390 Mechatronics (3 s.h.)
7. ET 400 Co-op/Internship in Engineering Technology (3 s.h.) or ENGR 494 Co-op (1-2 s.h.)
8. ET 415 Solar and Alternate Energy Systems (3 s.h.)

## Faculty

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

**Md Rasedul Islam**; Associate Professor; Ph.D., University of Wisconsin - Madison

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

**Jian Zhang**; Associate Professor; Ph.D., Mississippi State University

**MD Assad-Uz-Zaman**; Assistant Professor; Ph.D., University of Wisconsin - Milwaukee

**Banda Fernando Cano**; Assistant Professor; D.Eng., Hiroshima University

**Carlos Ulises Gonzalez-Valle**; Assistant Professor; Ph.D., Penn State University

## Mechanical Engineering Technology

(Bachelor of Science)

### Accreditation

The Mechanical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, [www.abet.org](http://www.abet.org).

## UW-Green Bay Engineering Technology

Combine hands-on learning with academic coursework and get ready for high-demand jobs in the growing field of engineering technology. The University partners with regional leaders and technical colleges so that you will be prepared for an ever-changing industry. Get the technical skills that will make you an expert and the critical-thinking skills that will make you indispensable.

### Engineering Technology Mission

All of the Engineering Technology programs (Electrical, Mechanical and Environmental) 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.

### Mechanical Engineering Technology

Mechanical engineering technology (MET) is the application of engineering principles and technological developments to new and existing manufacturing systems. Mechanical engineering technologists work with engineers in designing, testing, and manufacturing mechanical equipment or systems. There are many employment opportunities in mechanical design, manufacturing and industrial engineering technology, industrial management, computer aided design, applied research and sales and service.

The Bachelor of Science (B.S.) degree in Mechanical Engineering Technology at UW-Green Bay is a professional program that prepares students for careers in applied mechanical engineering using analytical and critical problem solving skills needed in regional and national industries, manufacturing, and engineering services firms. The focus of the program is the application of engineering principles to the solution of practical problems. Students will develop skills in hands on application labs and courses that explore the fundamentals of mechanics, mathematics, physics, materials technology, and computer aided design. Teamwork, technical writing, and project management are also emphasized throughout the curriculum. The goal of the major is to develop well rounded engineering technologists that can adapt and succeed in a highly competitive workplace.

Students will benefit from relationships with local technical colleges, and local industry to complete a B.S. in engineering technology in the Northeast Wisconsin area. Students may start earning their degree at UW-Green Bay or local technical colleges to give maximum flexibility in degree completion. In addition, the Northeast Wisconsin Educational Resource Alliance, NEW ERA, has established advisory boards linking leaders in regional industry and participating institutions to the major. Through these relationships students will have many opportunities for internships, co-op experiences, and employment after graduation.

### Mechanical Engineering Technology Program Learning Outcomes

1. Program graduates will secure and maintain employment in appropriate MET positions industry-wide and perform all functions assigned to an mechanical engineering technologist.
2. Graduates will apply their knowledge of mathematics, science, engineering technology, and computing to identify, analyze, and solve problems pertaining to design, development, and implementation of electronic systems.
3. Graduates will exhibit a desire for life-long learning through higher education, technical training, teaching, membership in professional societies, and other developmental activities and will achieve positions of increased responsibility through these activities.
4. Graduates will demonstrate high levels of oral and written communication skills, critical thinking, responsibility and ethical behavior, teamwork and appreciation for diversity, and leadership in their careers.

### Contact

For more information contact:

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or

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Chair, Richard J. Resch School of Engineering  
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### Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>31-37</b>
ENGR 236	Technical Writing and Information Literacy	
ET 101	Fundamentals of Engineering Technology	



MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
MATH 260	Introductory Statistics
ME 204	Introduction to MATLAB Programming
MET 105	Fundamentals of Drawing
PHYSICS 202	Principles of Physics II
PHYSICS 204	Introductory Physics Lab II
<b>Chemistry options (choose one):</b>	
CHEM 211 & CHEM 213 & CHEM 212 & CHEM 214 or ME 206	Principles of Chemistry I and Principles of Chemistry I Laboratory and Principles of Chemistry II and Principles of Chemistry II Laboratory Chemistry for Engineers
<b>Fundamental Courses</b>	
<b>23</b>	
ME 201	Engineering Materials
ME 213	Mechanics I
ME 214	Mechanics II
ME 216	Basic and Green Manufacturing Processes
ME 220	Mechanics of Materials
ME 221	Mechanics of Materials Lab
ME 308	Electrical and Electronic Circuits
MET 207	Computer Aided Design
MET 218	Fluid Mechanics
<b>Advanced Courses</b>	
<b>30</b>	
ET 360	Project Management
ME 324	Engineering Thermodynamics
ME 408	Finite Element Analysis
ME 420	Machine Component Design I
MET 318	Fluid Power Systems
MET 324	Motors and Drives
MET 380	Industrial Automation Control
MET 385	Robotics
MET 390	Mechatronics
MET 405	Applied Thermodynamics
<b>Capstone Requirement</b>	
<b>3</b>	
ET 400 or ET 410	Co-op/Internship in Engineering Technology Capstone Project
<b>Technical Electives (choose two courses):</b>	
<b>6</b>	
ET 415	Solar and Alternate Energy Systems
ME 334	Industrial Decision Processes
ME 422	Machine Component Design II
ME 494	Co-op
ME 498	Independent Study

**Total Credits****93-99**

## Curriculum Guide

The following curriculum guide is for a four-year **Mechanical Engineering Technology** degree program and is subject to change without notice. Students should consult their program advisor to ensure that they have the most accurate and up-to-date information available. This program is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, [www.abet.org](http://www.abet.org).

Total **123** credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
ET 101	Fundamentals of Engineering Technology	2
ET 105	Fundamentals of Drawing	3
MATH 202	Calculus and Analytic Geometry I (Quantitative Literacy)	4
ME 206	Chemistry for Engineers	4
First Year Seminar		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MATH 203	Calculus and Analytic Geometry II	4
ME 204	Introduction to MATLAB Programming	3
MET 207	Computer Aided Design	3
General Education		3
General Education		3
<b>Credits</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENGR 236	Technical Writing and Information Literacy	3
MATH 260	Introductory Statistics	4
ME 201	Engineering Materials	3
ME 213	Mechanics I	3
General Education		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ME 214	Mechanics II	3
ME 216	Basic and Green Manufacturing Processes	3
ME 220	Mechanics of Materials	3
ME 221	Mechanics of Materials Lab	1
MET 218	Fluid Mechanics	3
General Education		3
<b>Credits</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
PHYSICS 202	Principles of Physics II	4
PHYSICS 204	Introductory Physics Lab II	1
ME 308	Electrical and Electronic Circuits	3
MET 318	Fluid Power Systems	3
MET 385	Robotics	3
General Education		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
ET 360	Project Management	3
ME 324	Engineering Thermodynamics	3
MET 324	Motors and Drives	3
General Education		3
General Education		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ME 408	Finite Element Analysis	3
ME 420	Machine Component Design I	3
MET 380	Industrial Automation Control	3
Technical Elective I		3
General Education		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ET 390	Mechatronics	3
ET 400 or ET 410	Co-op/Internship in Engineering Technology (Capstone) or Capstone Project	3
MET 405	Applied Thermodynamics	3
Technical Elective II		3

General Education	3
<b>Credits</b>	<b>15</b>
<b>Total Credits</b>	<b>126</b>

Technical Electives (choose any two):

1. ET 415 Solar and Alternate Energy Systems (3 s.h.)
2. ME 334 Industrial Decision Processes (3 s.h.)
3. ME 422 Machine Component Design II (3 s.h.)
4. ENGR 494 Co-op (1-2 s.h.)
5. ENGR 498 Independent Study (1-4 s.h.)

## Faculty

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

**Md Rasedul Islam**; Associate Professor; Ph.D., University of Wisconsin - Madison

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**Banda Fernando Cano**; Assistant Professor; D.Eng., Hiroshima University

**Carlos Ulises Gonzalez-Valle**; Assistant Professor; Ph.D., Penn State University

## Media Arts and Production

(Bachelor of Arts)

The Bachelor of Arts in Media Arts and Production is a forward-thinking degree prepares students to be skilled media professionals with both technical expertise and creative vision.

### Hands-On Learning, Cross-Disciplinary Training

The Media Arts and Production (MAP) program blends hands-on experience with critical media analysis, offering courses in filmmaking, digital storytelling, video and audio editing, web-based media, acting and performance, media ethics, and audience engagement. The interdisciplinary nature of the program—drawing from Communication, Film, Theatre, Public Administration, History, Music, Writing and Applied Arts, and Arts Management—ensures students gain a well-rounded education that prepares them for careers in digital content creation, broadcasting, and multimedia production.

### Media Production and Industry

MAP students develop highly transferable skills in storytelling, visual communication, media analysis, and project management—qualities that are highly sought after in today's digital landscape. In their final year, students engage in capstone experience, applying their skills to video production, podcasting, marketing, digital journalism, and social media strategy. This degree equips graduates to enter the growing creative industries of Northeast Wisconsin and beyond, ensuring they are prepared for dynamic careers in digital and media arts.

## Program Learning Outcomes

- **Digital Media Literacy:** Students will demonstrate an understanding of the foundational principles of media production, including digital storytelling, editing, and basic production workflows across audio, video, and web-based platforms.
- **Creative Expression & Collaboration:** Students will create digital artifacts (such as short films, audio recordings, or web content) that demonstrate creativity and effective collaboration with peers, incorporating different mediums like sound, video, and live performance.
- **Performance Techniques:** Students will develop basic acting and performance skills, including voice modulation, body language, and improvisation, and apply these techniques to digital media contexts (e.g., podcasting, short films, and performance art).
- **Critical Media Analysis:** Students will analyze and critique media artifacts (such as films, TV shows, podcasts, and digital performances) using fundamental concepts in film and media studies, such as narrative structure, representation, and genre conventions.
- **Technical Skills in Media Production:** Students will gain proficiency with essential digital tools and technologies for media production, such as editing software (audio/video), sound recording equipment, and basic lighting and camera work.
- **Understanding of Media Ethics & Impact:** Students will identify and analyze ethical considerations in digital media production, such as representation, copyright, and the social impact of media.
- **Cross-Disciplinary Application:** Students will be able to apply digital media production techniques and performance skills to their major or professional interests, demonstrating the flexibility of these tools across disciplines.

- Project Management & Reflection: Students will plan, execute, and reflect on media production projects, demonstrating skills in time management, workflow organization, and self-assessment of their creative process and technical proficiency.

## Major

Code	Title	Credits
<b>Required:</b>		<b>13</b>
COMM 120	Introduction to Media Production	
COMM 205	Elements of Media	
HUM STUD 110	Introduction to Film	
THEATRE 234	Acting for the Camera	
<b>Required Upper-Level Courses</b>		<b>18</b>
<b>Production (choose 5 courses):</b>		
COMM 306	Radio Broadcasting	
COMM 307	Video Production	
COMM 317	How to Create Great Social Media Content	
COMM 378	Documentary Video Production	
ENGLISH 410	Live Video Streaming Practicum	
INFO SCI 342	Game Design	
MUSIC 301	Audio Synthesis	
<b>Capstone:</b>		
All students must complete a capstone project in their final year.		
<b>Electives:</b>		<b>18</b>
Electives should draw from at least three of these five categories: Production, Performance, Writing, Surveys, Arts Entrepreneurship.		
9 credits (3 courses) must have an upper-level designation (300-400)		
<b>Production:</b>		
COMM 220	Social Media Video Production	
MUSIC 165	Fundamentals of Recording Technology	
MUSIC 166	Basic Studio Practices	
MUSIC 120	Video Game Music	
THEATRE 221	Stagecraft	
THEATRE 222	Costume Technology	
THEATRE 225	INTERCURRICULAR THEATRE I	
<b>Performance:</b>		
THEATRE 131	Beginning Acting	
THEATRE 241	Improvisation for Business	
THEATRE 233	Voice for the Actor I	
<b>Writing Courses:</b>		
ENGLISH 201	Ethics in Writing	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 308	Screenwriting	
ENGLISH 310	Topics in Game Writing	
THEATRE 302	Playwriting I	
<b>Surveys:</b>		
COMM 380	Communication Law	
COMM 430	Information, Media and Society	
COMM 477	Social Media Strategies	
HUM STUD 210	Film and Society	
HUM STUD 309	Introduction to Film History and Theory	
HUM STUD 343	International Cinema	
INFO SCI 341	Survey of Gaming and Interactive Media	
<b>Arts Entrepreneurship:</b>		
ARTS MGT 255	Professional Perspectives in the Arts	

ARTS MGT 257	Arts in the Community
ENTRP 492	Social Entrepreneurship
HISTORY 399	Public History Methods
PUB ADM 315	Public and Non-Profit Management
PUB ADM 344	Leadership in Organizations

**Total Credits****49**

## Faculty

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

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

**Kaoime E Malloy**; Professor; M.F.A., University of Iowa

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

**Julialicia Case**; Associate Professor; Ph.D., University of Cincinnati

**Kerry Kuenzi**; Associate Professor; Ph.D., University of Colorado\*

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

**Joseph Yoo**; Associate Professor; Ph.D., University of Texas

**Justin Kavlie**; Assistant Professor; Ph.D., University of North Carolina

**Zack Kruse**; Assistant Teaching Professor; Ph.D., Michigan State University

## 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. 134) 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 five distinct emphases: Audio Production, Jazz Studies, Composition, Music and Entrepreneurship, 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.

## Major Area of Emphasis (BM) (p. 272)

Students must complete requirements in one of the following areas of emphasis: (p. 272)

- Music Education: Pre-K-12 Instrumental and General Music (p. 272)
- Music Education: Pre-K-12 Choral and General Music (p. 272)
- Instrumental Performance (p. 272)
- Vocal Performance (p. 272)

## Major Area of Emphasis (BA) (p. 263)

Students must complete requirements in one of the following areas of emphasis: (p. 263)

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. (p. 263)

- Audio Production (p. 263)
- Composition (p. 263)
- Individual Studies (p. 263)
- Music and Entrepreneurship (p. 263)
- Jazz Studies (p. 263)

## Minor Area of Emphasis (p. 278)

Students must complete requirements in one of the following areas of emphasis: (p. 278)

- Music Performance (p. 278)
- Music Studies (p. 278)

## Faculty

**Adam W Gaines**; Professor; D.A., Ball State University

**Michelle McQuade-Dewhirst**; Professor; Ph.D., University of Chicago

**Deborah Popham**; Professor; Ph.D., Arizona State University, chair

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

**Courtney J Sherman**; Professor; D.M.A., Arizona State University

**Luis Fernandez**; Associate Professor; D.M.A., University of Miami

**Eric C Hansen**; Associate Professor; M.M., University of Kentucky

**Randall A Meder**; Associate Professor; D.M.A., University of Illinois at Urbana - Champaign

**William Sallak**; Associate Professor; D.M.A., Arizona State University

**Christy Talbott**; Associate Professor; Ph.D., Ohio State University

Whitney Myers; Assistant Professor; D.M.A., University of Kentucky

# Music Major (BA)

## 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.

- Audio Production
- Composition
- Individual Studies
- Jazz Studies
- Music and Entrepreneurship

## Audio Production

All students seeking the Bachelor of Arts with a major in Music must complete a liberal arts requirement consisting of a minimum of 66 credits in addition to credits earned in Music courses. These 66 credits may include credits earned to fulfill requirements in another major or minor and general education.

Code	Title	Credits
<b>Supporting Courses</b>		<b>23</b>
MUS APP 11	Keyboard Musicianship I	
MUS APP 21	Keyboard Musicianship II	
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 165	Fundamentals of Recording Technology	
MUSIC 166	Basic Studio Practices	
MUSIC 265	Audio Engineering I	
MUSIC 266	Audio Engineering II	
ENGLISH 228	Introduction to Technical and Professional Writing	
<b>Complete either the Performance Block or the Commercial Technology Block</b>		<b>7</b>
<b>Performance Block (7 cr.)</b>		
First Semester Applied Lesson (1 cr.)		
MUS APP 101	Keyboard Lessons 1	
MUS APP 105	Voice Lessons 1	
MUS APP 127	Instrumental Lessons 1	
Second Semester Applied lesson (1 cr.)		
MUS APP 102	Keyboard Lessons 2	
MUS APP 106	Voice Lessons 2	
MUS APP 128	Instrumental Lessons 2	
Ensembles (total 5 cr., indiv. ensemble can be repeated)		
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 147	World Pop Ensemble	
MUS ENS 150	New Music Ensemble	
MUS ENS 154	Guitar 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 241	Concert Bands and Orchestra
MUS ENS 261	University Singers
MUS ENS 262	Concert Choir
<b>Commercial Technology Block (7 cr.)</b>	
MUSIC 120	Video Game Music
MUSIC 122	Electronic Music Production
Choose one of the following (as advised, 1 cr.):	
MUS APP 31	Keyboard Musicianship III
MUS APP 45	Elementary Voice I
MUS APP 69	Elementary Guitar
Any one-credit MUS APP applied lesson	
Any one-credit MUS ENS course	
<b>Upper-Level Courses</b>	
<b>Required:</b>	
MUSIC 301	Audio Synthesis
MUSIC 365	Audio Engineering III
MUSIC 366	Audio Engineering IV
MUSIC 370	Immersive Audio
MUSIC 465	Senior Audio Practicum
MUSIC 466	Professional Aspects in Audio Production
MUSIC 481	Audio Production Capstone
<b>Choose two of the following:</b>	
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 455	Orchestration
THEATRE 364	Musical Theatre History
<b>Total Credits</b>	

21

6

57

## Composition

All students seeking the Bachelor of Arts with a major in Music must complete a liberal arts requirement consisting of a minimum of 66 credits in addition to credits earned in Music courses. These 66 credits may include credits earned to fulfill requirements in another major or minor and general education.

Code	Title	Credits
<b>Supporting Courses</b>		<b>26-29</b>
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV Advanced Keyboard Musicianship	
MUSIC 103	Music Technology Tools	
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 209	Applied Composition (Must take total of 4 credits)	
MUSIC 215	Advanced Sight Singing and Ear Training	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
<b>First Semester Applied (1 credit):</b>		<b>1</b>



MUS APP 101	Keyboard Lessons 1	
MUS APP 105	Voice Lessons 1	
MUS APP 127	Instrumental Lessons 1	
<b>Second Semester Applied (1 credit):</b>		<b>1</b>
MUS APP 102	Keyboard Lessons 2	
MUS APP 106	Voice Lessons 2	
MUS APP 128	Instrumental Lessons 2	
<b>Third Semester Applied (1 credit):</b>		<b>1</b>
MUS APP 201	Keyboard Lessons 3	
MUS APP 205	Voice Lessons 3	
MUS APP 227	Instrumental Lessons 3	
<b>Fourth Semester Applied (1 credit):</b>		<b>1</b>
MUS APP 202	Keyboard Lessons 4	
MUS APP 206	Voice Lessons 4	
MUS APP 228	Instrumental Lessons 4	
<b>Major Ensemble Requirement (complete 4 credits):</b>		<b>4</b>
MUS ENS 241	Concert Bands and Orchestra	
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
<b>Upper-Level Courses</b>		<b>21-22</b>
MUSIC 353	Music History I	
MUSIC 354	Music History II	
MUSIC 453	Materials and Design	
MUSIC 480	Capstone Project	
MUSIC 411	Advanced Composition (4 credits required)	
MUS ENS 350	New Music Ensemble	
<b>Upper-Level Minor Ensemble (1 credit):</b>		<b>1</b>
MUS ENS 313	Keyboard Accompanying	
MUS ENS 342	Jazz Combo	
MUS ENS 343	Jazz Ensemble	
MUS ENS 344	Woodwind Ensemble	
MUS ENS 345	Brass Ensemble	
MUS ENS 346	Contemporary Percussion Ensemble	
MUS ENS 350	New Music Ensemble	
MUS ENS 363	Chamber Singers	
MUS ENS 365	Vocal Jazz Ensemble	
MUS ENS 366	Opera Workshop	
MUS ENS 388	Hand Drumming Ensemble	
<b>Upper-Level Electives (6 credits required):</b>		<b>6</b>
MUS APP 301	Keyboard Lessons 5	
MUS APP 302	Keyboard Lessons 6	
MUS APP 305	Voice Lessons 5	
MUS APP 306	Voice Lessons 6	
MUS APP 327	Instrumental Lessons 5	
MUS APP 328	Instrumental Lessons 6	
MUS APP 401	Keyboard Lessons 7	
MUS APP 402	Keyboard Lessons 8	
MUS APP 405	Voice Lessons 7	
MUS APP 406	Voice Lessons 8	
MUS APP 427	Instrumental Lessons 7	
MUS APP 428	Instrumental Lessons 8	
MUS APP 497	Internship	

MUS APP 498	Independent Study
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Workshop
MUS ENS 388	Hand Drumming Ensemble
MUS ENS 441	Concert 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 411	Advanced Composition
MUSIC 417	Jazz Arranging
MUSIC 423	Seminar in Music Literature
MUSIC 498	Independent Study
MUSIC 499	Travel Course
THEATRE 364	Musical Theatre History

**Total Credits****62-66**

## Individual Studies

All students seeking the Bachelor of Arts with a major in Music must complete a liberal arts requirement consisting of a minimum of 66 credits in addition to credits earned in Music courses. These 66 credits may include credits earned to fulfill requirements in another major or minor and general education.

Code	Title	Credits
<b>Supporting Courses</b>		<b>24-25</b>
<b>Keyboard Requirement:</b>		
MUS APP 11 & MUS APP 21 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II Advanced Keyboard Musicianship	
<b>Required:</b>		
MUSIC 103	Music Technology Tools	
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
<b>First Semester Applied (1 credit):</b>		
MUS APP 101	Keyboard Lessons 1	
MUS APP 105	Voice Lessons 1	

MUS APP 127	Instrumental Lessons 1
<b>Second Semester Applied (1 credit):</b>	
MUS APP 102	Keyboard Lessons 2
MUS APP 106	Voice Lessons 2
MUS APP 128	Instrumental Lessons 2
<b>Third Semester Applied (1 credit):</b>	
MUS APP 201	Keyboard Lessons 3
MUS APP 205	Voice Lessons 3
MUS APP 227	Instrumental Lessons 3
<b>Fourth Semester Applied (1 credit):</b>	
MUS APP 202	Keyboard Lessons 4
MUS APP 206	Voice Lessons 4
MUS APP 228	Instrumental Lessons 4
<b>Major Ensemble Requirement (complete 4 credits):</b>	
MUS ENS 241	Concert Bands and Orchestra
MUS ENS 261	University Singers
MUS ENS 262	Concert Choir
<b>Upper-Level Courses</b>	
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 480	Capstone Project
<b>Music Theory and History (3 credits):</b>	
MUSIC 423	Seminar in Music Literature
or MUSIC 453	Materials and Design
<b>Minor Ensemble (complete 2 credits):</b>	
MUS ENS 313	Keyboard Accompanying
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Workshop
MUS ENS 388	Hand Drumming Ensemble
<b>Upper-Level Electives (12 credits):</b>	
MUS APP 301	Keyboard Lessons 5
MUS APP 302	Keyboard Lessons 6
MUS APP 305	Voice Lessons 5
MUS APP 306	Voice Lessons 6
MUS APP 327	Instrumental Lessons 5
MUS APP 328	Instrumental Lessons 6
MUS APP 401	Keyboard Lessons 7
MUS APP 402	Keyboard Lessons 8
MUS APP 405	Voice Lessons 7
MUS APP 406	Voice Lessons 8
MUS APP 427	Instrumental Lessons 7
MUS APP 428	Instrumental Lessons 8
MUS APP 497	Internship
MUS APP 498	Independent Study
MUS ENS 441	Concert Bands and Orchestra

MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
MUSIC 301	Audio Synthesis
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 411	Advanced Composition
MUSIC 417	Jazz Arranging
MUSIC 423	Seminar in Music Literature
MUSIC 497	Internship
MUSIC 498	Independent Study
MUSIC 499	Travel Course
THEATRE 364	Musical Theatre History

**Total Credits****50-51**

## Jazz Studies

All students seeking the Bachelor of Arts with a major in Music must complete a liberal arts requirement consisting of a minimum of 66 credits in addition to credits earned in Music courses. These 66 credits may include credits earned to fulfill requirements in another major or minor and general education.

Code	Title	Credits
<b>Supporting Courses</b>		<b>30-31</b>
<b>Keyboard Requirement:</b>		
MUS APP 11 & MUS APP 21 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II Advanced Keyboard Musicianship	
<b>Required:</b>		
MUS ENS 142	Jazz Combo	
MUSIC 103	Music Technology Tools	
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 220	Introduction to Jazz Theory and Improvisation	
MUSIC 242	Jazz and Pop Literature	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
<b>First Semester Applied (1 credit):</b>		
MUS APP 101	Keyboard Lessons 1	
MUS APP 105	Voice Lessons 1	
MUS APP 127	Instrumental Lessons 1	
<b>Second Semester Applied (1 credit):</b>		
MUS APP 102	Keyboard Lessons 2	
MUS APP 106	Voice Lessons 2	
MUS APP 128	Instrumental Lessons 2	

**Third Semester Applied (1 credit):**

MUS APP 201	Keyboard Lessons 3
MUS APP 205	Voice Lessons 3
MUS APP 227	Instrumental Lessons 3

**Fourth Semester Applied (1 credit):**

MUS APP 202	Keyboard Lessons 4
MUS APP 206	Voice Lessons 4
MUS APP 228	Instrumental Lessons 4

**Major Ensemble Requirement (complete 4 credits):**

MUS ENS 241	Concert 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	Concert 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	Audio Synthesis
MUSIC 311	Jazz Improvisation
MUSIC 362	World Music
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
THEATRE 364	Musical Theatre History

**Total Credits****55-56**

## Music and Entrepreneurship

All students seeking the Bachelor of Arts with a major in Music must complete a liberal arts requirement consisting of a minimum of 66 credits in addition to credits earned in Music courses. These 66 credits may include credits earned to fulfill requirements in another major or minor and general education.

Code	Title	Credits
<b>Supporting Courses</b>		<b>36-37</b>
<b>Keyboard Requirement:</b>		
MUS APP 11 & MUS APP 21 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II Advanced Keyboard Musicianship	
<b>Required:</b>		
MUSIC 103	Music Technology Tools	
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
<b>Electives (choose 12 credits):</b>		
ACCTG 201	Principles of Financial Accounting	
ARTS MGT 257	Arts in the Community	
BUS ADM 202	Introduction to Business	
COMM 185	Business and Media Writing	
ENTRP 272	Introduction to Entrepreneurship	
ENTRP 373	Entrepreneurial Finance	
ENTRP 481	Small Business Management & Family Entrepreneurship	
ENTRP 491	Advanced Entrepreneurial Marketing	
MKTG 345	Digital Marketing	
MKTG 447	Social Media Marketing and Analytics	
PUB ADM 225	Introduction to the Nonprofit Sector	
<b>First Semester Applied (1 credit):</b>		
MUS APP 101	Keyboard Lessons 1	
MUS APP 105	Voice Lessons 1	
MUS APP 127	Instrumental Lessons 1	
<b>Second Semester Applied (1 credit):</b>		
MUS APP 102	Keyboard Lessons 2	
MUS APP 106	Voice Lessons 2	
MUS APP 128	Instrumental Lessons 2	
<b>Third Semester Applied (1 credit):</b>		
MUS APP 201	Keyboard Lessons 3	
MUS APP 205	Voice Lessons 3	
MUS APP 227	Instrumental Lessons 3	
<b>Fourth Semester Applied (1 credit):</b>		
MUS APP 202	Keyboard Lessons 4	
MUS APP 206	Voice Lessons 4	
MUS APP 228	Instrumental Lessons 4	
<b>Major Ensemble Requirement (complete 4 credits):</b>		
MUS ENS 241	Concert Bands and Orchestra	
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
<b>Upper-Level Courses</b>		<b>26</b>
MUSIC 353	Music History I	
MUSIC 354	Music History II	
MUSIC 480	Capstone Project	
<b>Music Theory and History (3 credits):</b>		
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	Concert Bands and Orchestra
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
MUSIC 301	Audio Synthesis
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 411	Advanced Composition
MUSIC 417	Jazz Arranging
MUSIC 423	Seminar in Music Literature
MUSIC 497	Internship
MUSIC 498	Independent Study
MUSIC 499	Travel Course

## Music Major (BM)

### Areas of Emphasis

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

- Music Education: Pre-K-12 Instrumental and General Music
- Music Education: Pre-K-12 Choral and General Music
- Instrumental Performance
- Vocal Performance

### Music Education: Pre-K-12 Instrumental and General Music

Code	Title	Credits
<b>Supporting Courses</b>		<b>32-36</b>
<b>Required:</b>		
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	
<b>Keyboard Requirement:</b>		
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV Advanced Keyboard Musicianship	
<b>First Semester Applied (complete 2 credits):</b>		
MUS APP 101 or MUS APP 127	Keyboard Lessons 1 Instrumental Lessons 1	
<b>Second Semester Applied (complete 2 credits):</b>		
MUS APP 102 or MUS APP 128	Keyboard Lessons 2 Instrumental Lessons 2	
<b>Third Semester Applied (complete 2 credits):</b>		
MUS APP 201 or MUS APP 227	Keyboard Lessons 3 Instrumental Lessons 3	
<b>Fourth Semester Applied (complete 2 credits):</b>		
MUS APP 202 or MUS APP 228	Keyboard Lessons 4 Instrumental Lessons 4	
<b>Major Ensemble (complete a total of 4 credits):</b>		
MUS ENS 241	Concert Bands and Orchestra	
<b>Improvisation-choose one:</b>		
MUSIC 220	Introduction to Jazz Theory and Improvisation	
MUS ENS 142	Jazz Combo	
MUS ENS 150	New Music Ensemble	
MUS ENS 165	Vocal Jazz Ensemble	
MUS ENS 188	Hand Drumming Ensemble	



MUS ENS 342	Jazz Combo
MUS ENS 350	New Music Ensemble
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 388	Hand Drumming Ensemble
<b>Upper-Level Courses</b>	
EDUC 317	Teaching Music in the Middle and Secondary Schools
EDUC 334	Teaching General Music in the Elementary and Middle Schools
MUS APP 396	Junior Recital
MUSIC 333	Basic Conducting
MUSIC 341	Woodwind Techniques
MUSIC 342	Brass Techniques
MUSIC 343	String Techniques
MUSIC 345	Percussion Techniques
MUSIC 348	Instrumental Conducting and Rehearsal Techniques
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 362	World Music
<b>Minor Ensemble (complete 2 credits):</b>	
MUS ENS 142	Jazz Combo
MUS ENS 143	Jazz Ensemble
MUS ENS 144	Woodwind Ensemble
MUS ENS 145	Brass Ensemble
MUS ENS 146	Contemporary Percussion Ensemble
MUS ENS 150	New Music Ensemble
MUS ENS 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera Workshop
MUS ENS 188	Hand Drumming Ensemble
MUS ENS 313	Keyboard Accompanying
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Workshop
MUS ENS 388	Hand Drumming Ensemble
<b>Major Ensemble (complete 2 credits):</b>	
MUS ENS 441	Concert Bands and Orchestra
<b>Fifth Semester Applied (complete 2 credits):</b>	
MUS APP 301	Keyboard Lessons 5
or MUS APP 327	Instrumental Lessons 5
<b>Sixth Semester Applied (complete 2 credits):</b> <small>Must perform half recital</small>	
MUS APP 302	Keyboard Lessons 6
or MUS APP 328	Instrumental Lessons 6
<b>Upper-Level History Theory Elective</b>	
MUSIC 423	Seminar in Music Literature
or MUSIC 453	Materials and Design

## Music Education: Pre-K-12 Choral and General Music

Code	Title	Credits
<b>Supporting Courses</b>		<b>31-34</b>
<b>Required</b>		
MUSIC 103	Music Technology Tools	
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 215	Advanced Sight Singing and Ear Training	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
MUS APP 69	Elementary Guitar	
<b>Keyboard Requirement:</b>		
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV Advanced Keyboard Musicianship	
<b>Applied Lessons (8 credits required):</b>		
MUS APP 105	Voice Lessons 1	
MUS APP 106	Voice Lessons 2	
MUS APP 205	Voice Lessons 3	
MUS APP 206	Voice Lessons 4	
<b>Major Ensemble (complete 4 credits):</b>		
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	
<b>Improvisation-choose one:</b>		
MUSIC 220	Introduction to Jazz Theory and Improvisation	
MUS ENS 142	Jazz Combo	
MUS ENS 150	New Music Ensemble	
MUS ENS 165	Vocal Jazz Ensemble	
MUS ENS 188	Hand Drumming Ensemble	
MUS ENS 342	Jazz Combo	
MUS ENS 350	New Music Ensemble	
MUS ENS 365	Vocal Jazz Ensemble	
MUS ENS 388	Hand Drumming Ensemble	
<b>Upper-Level Courses</b>		<b>36</b>
EDUC 317	Teaching Music in the Middle and Secondary Schools	
EDUC 334	Teaching General Music in the Elementary and Middle Schools	
MUS APP 396	Junior Recital	
MUSIC 305	Diction for Singers I	
MUSIC 333	Basic Conducting	
MUSIC 344	Choral Conducting and Rehearsal Techniques	
MUSIC 353	Music History I	
MUSIC 354	Music History II	
MUSIC 362	World Music	
<b>Choral / Vocal Techniques (3 credits required):</b>		
MUSIC 319	Choral/Vocal Techniques	
<b>Applied Lessons (4 credits required):</b>		
MUS APP 305	Voice Lessons 5	
MUS APP 306	Voice Lessons 6	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**

## Instrumental Performance

Code	Title	Credits
<b>Supporting Courses</b>		<b>28-31</b>
<b>Required:</b>		
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 215	Advanced Sight Singing and Ear Training	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
<b>Keyboard Requirement:</b>		
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV Advanced Keyboard Musicianship	
<b>First Semester Applied (2 credits):</b>		
MUS APP 101 or MUS APP 127	Keyboard Lessons 1 Instrumental Lessons 1	
<b>Second Semester Applied (2 credits):</b>		
MUS APP 102	Keyboard Lessons 2	

or MUS APP 128	Instrumental Lessons 2
<b>Third Semester Applied (2 credits):</b>	
MUS APP 201	Keyboard Lessons 3
or MUS APP 227	Instrumental Lessons 3
<b>Fourth Semester Applied (2 credits):</b>	
MUS APP 202	Keyboard Lessons 4
or MUS APP 228	Instrumental Lessons 4
<b>Major Ensemble (complete 4 credits):</b>	
MUS ENS 241	Concert Bands and Orchestra
<b>Upper-Level Courses</b>	
MUS APP 396	Junior Recital
MUS APP 496	Senior Recital
MUSIC 333	Basic Conducting
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 423	Seminar in Music Literature
MUSIC 453	Materials and Design
<b>Fifth Semester Applied (3 credits):</b>	
MUS APP 301	Keyboard Lessons 5
or MUS APP 327	Instrumental Lessons 5
<b>Sixth Semester Applied (3 credits):</b> <i>Must perform full recital</i>	
MUS APP 302	Keyboard Lessons 6
or MUS APP 328	Instrumental Lessons 6
<b>Seventh Semester Applied (3 credits):</b>	
MUS APP 401	Keyboard Lessons 7
or MUS APP 427	Instrumental Lessons 7
<b>Eighth Semester Applied (3 credits):</b> <i>Must perform full recital</i>	
MUS APP 402	Keyboard Lessons 8
or MUS APP 428	Instrumental Lessons 8
<b>Major Ensemble (complete 4 credits):</b>	
MUS ENS 441	Concert Bands and Orchestra
<b>Minor Ensemble (complete 2 credits):</b>	
MUS ENS 142	Jazz Combo
MUS ENS 143	Jazz Ensemble
MUS ENS 144	Woodwind Ensemble
MUS ENS 145	Brass Ensemble
MUS ENS 146	Contemporary Percussion Ensemble
MUS ENS 150	New Music Ensemble
MUS ENS 188	Hand Drumming Ensemble
MUS ENS 313	Keyboard Accompanying
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 388	Hand Drumming Ensemble
<b>Music Electives (choose 6 credits):</b>	
MUSIC 301	Audio Synthesis
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****Vocal Performance**

Code	Title	Credits
<b>Supporting Courses</b>		<b>28-31</b>
<b>Required:</b>		
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 151	Music Theory I	
MUSIC 152	Music Theory II	
MUSIC 215	Advanced Sight Singing and Ear Training	
MUSIC 253	Music Theory III	
MUSIC 254	Music Theory IV	
<b>Keyboard Requirement:</b>		
MUS APP 11 & MUS APP 21 & MUS APP 31 & MUS APP 41 or MUS APP 13	Keyboard Musicianship I and Keyboard Musicianship II and Keyboard Musicianship III and Keyboard Musicianship IV Advanced Keyboard Musicianship	
<b>Applied Lessons (8 credits required):</b>		
MUS APP 105	Voice Lessons 1	
MUS APP 106	Voice Lessons 2	
MUS APP 205	Voice Lessons 3	
MUS APP 206	Voice Lessons 4	
<b>Major Ensemble (complete 4 credits):</b>		
MUS ENS 261	University Singers	
MUS ENS 262	Concert Choir	

**Foreign Language Requirement****9-12**

Vocal Performance student must complete 3 semesters of any combination of Italian, French and German language courses

**Upper-Level Courses****47**

MUS APP 396	Junior Recital
MUS APP 496	Senior Recital
MUSIC 305	Diction for Singers I
MUSIC 306	Diction for Singers II
MUSIC 319	Choral/Vocal Techniques (Vocal Pedagogy)
MUSIC 319	Choral/Vocal Techniques (Choral Arranging)
MUSIC 333	Basic Conducting
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 362	World Music
MUSIC 363	Jazz History
MUSIC 423	Seminar in Music Literature

MUSIC 453	Materials and Design
<b>Fifth Semester Applied (3 credits):</b>	
MUS APP 305	Voice Lessons 5
<b>Sixth Semester Applied (3 credits):</b>	
MUS APP 306	Voice Lessons 6 <sup>Must perform full recital</sup>
<b>Seventh Semester Applied ( 3 credits):</b>	
MUS APP 405	Voice Lessons 7
<b>Eighth Semester Applied (3 credits):</b>	
MUS APP 406	Voice Lessons 8 <sup>Must perform full recital</sup>
<b>Major Ensemble (complete 4 credits):</b>	
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
<b>Minor Ensemble (2 credits):</b>	
MUS ENS 150	New Music Ensemble
MUS ENS 163	Chamber Singers
MUS ENS 165	Vocal Jazz Ensemble
MUS ENS 166	Opera Workshop
MUS ENS 313	Keyboard Accompanying
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 366	Opera Workshop
<b>Music Electives (complete 2 credits):</b>	
MUSIC 301	Audio Synthesis
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****84-90**

## Music Minor

### Area of Emphasis

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

- Music Performance
- Music Studies

### Music Performance

Code	Title	Credits
<b>Performance Courses</b>		<b>14</b>
<b>First Semester Applied (2 credits):</b>		
MUS APP 101	Keyboard Lessons 1	
MUS APP 105	Voice Lessons 1	
MUS APP 127	Instrumental Lessons 1	
<b>Second Semester Applied (2 credits):</b>		
MUS APP 102	Keyboard Lessons 2	
MUS APP 106	Voice Lessons 2	
MUS APP 128	Instrumental Lessons 2	
<b>Third Semester Applied (2 credits):</b>		

MUS APP 201	Keyboard Lessons 3
MUS APP 205	Voice Lessons 3
MUS APP 227	Instrumental Lessons 3
<b>Fourth Semester Applied (2 credits):</b>	
MUS APP 202	Keyboard Lessons 4
MUS APP 206	Voice Lessons 4
MUS APP 228	Instrumental Lessons 4
<b>Lower Level Major Ensemble (4 credits):</b>	
MUS ENS 241	Concert Bands and Orchestra
MUS ENS 261	University Singers
MUS ENS 262	Concert Choir
<b>Upper Level Music Ensemble (2 credits):</b>	
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 348	Collegium Musicum
MUS ENS 350	New Music Ensemble
MUS ENS 354	Guitar Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Workshop
MUS ENS 388	Hand Drumming Ensemble
MUS ENS 441	Concert Bands and Orchestra
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
<b>Supporting Courses (Complete 3 credits):</b>	
MUSIC 103	Music Technology Tools
MUSIC 121	Survey of Western Music
MUSIC 151	Music Theory I
MUSIC 224	Popular Music Since 1955
MUSIC 272	Women in the Performing Arts
<b>Upper-Level Courses (Complete 3 credits):</b>	
MUSIC 301	Audio Synthesis
MUSIC 305	Diction for Singers I
MUSIC 306	Diction for Singers II
MUSIC 333	Basic Conducting
MUSIC 353	Music History I
MUSIC 354	Music History II
MUSIC 362	World Music
MUSIC 363	Jazz History
THEATRE 364	Musical Theatre History

**Total Credits****20**

## Music Studies

Code	Title	Credits
<b>Supporting Courses</b>		<b>18-19</b>
MUSIC 115	Ear Training and Sight Singing I	
MUSIC 116	Ear Training and Sight Singing II	
MUSIC 121	Survey of Western Music	
MUSIC 151	Music Theory I	

MUSIC 152	Music Theory II
<b>Keyboard Requirement: Complete One Set</b>	
<b>Set One</b>	
MUS APP 11	Keyboard Musicianship I
MUS APP 21	Keyboard Musicianship II
<b>Set Two</b>	
MUS APP 13	Advanced Keyboard Musicianship
<b>First Semester Applied (2 credits):</b>	
MUS APP 101	Keyboard Lessons 1
MUS APP 105	Voice Lessons 1
MUS APP 127	Instrumental Lessons 1
<b>Second Semester Applied (2 credits):</b>	
MUS APP 102	Keyboard Lessons 2
MUS APP 106	Voice Lessons 2
MUS APP 128	Instrumental Lessons 2
<b>Major Ensemble (2 credits):</b>	
MUS ENS 241	Concert Bands and Orchestra
MUS ENS 261	University Singers
MUS ENS 262	Concert Choir
<b>Upper-Level Courses</b>	
<b>Electives (choose from the following): <sup>1</sup></b>	
MUSIC 301	Audio Synthesis
MUSIC 333	Basic Conducting
MUSIC 362	World Music
MUSIC 363	Jazz History
<b>Ensemble Courses (must choose a minimum of 1 credit):</b>	
MUS ENS 342	Jazz Combo
MUS ENS 343	Jazz Ensemble
MUS ENS 344	Woodwind Ensemble
MUS ENS 345	Brass Ensemble
MUS ENS 346	Contemporary Percussion Ensemble
MUS ENS 350	New Music Ensemble
MUS ENS 363	Chamber Singers
MUS ENS 365	Vocal Jazz Ensemble
MUS ENS 366	Opera Workshop
MUS ENS 388	Hand Drumming Ensemble
MUS ENS 441	Concert Bands and Orchestra
MUS ENS 461	University Singers
MUS ENS 462	Concert Choir
<b>Total Credits</b>	

6

24-25

<sup>1</sup> Students must complete a minimum of one credit of 300 or 400-level Ensemble Course

## Nursing

(Bachelor of Science in Nursing)

### Overview of the Nursing Programs at UW-Green Bay

Our mission is to transform communities by improving health and healthcare delivery. We offer high quality, student-centered nursing programs that inspire students to think critically and address complex health issues. The nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE). More information about the BSN programs can be found by clicking on the program tab.

#### Bachelor of Science in Nursing (BSN)



We offer several options to earn a BSN including the following:

- **Traditional BSN-** The traditional BSN program prepares nursing graduates to work in today's fast-paced healthcare environments. Building on a strong science and liberal arts base, the nursing curriculum uses a concept-based approach to enhance students' clinical reasoning. Using exemplars to illustrate each of the concepts, students learn to assimilate and sort information while recognizing patterns. The program is designed to be completed in 4 years.

#### **Traditional BSN Program Learning Outcomes**

By the end of the BSN program, the individual will be able to:

1. Engage in professional nursing practice that is patient-centered and culturally appropriate for individuals, families, and communities. (VIII, IX)
  2. Demonstrate clinical judgement through the delivery of evidence-based nursing care across the lifespan. (III & IX)
  3. Integrate principles of quality improvement, safety, and sustainability into nursing practice within healthcare organizations and systems. (II)
  4. Use knowledge sources effectively to deliver health promotion, disease prevention strategies designed to improve population health outcomes. (VII)
  5. Demonstrate leadership and caring behaviors via advocacy, fiscal awareness, and analysis of health policy in dynamic healthcare environments. (V, VIII)
  6. Engage in effective communication and interprofessional collaboration in the delivery of health care for quality patient outcomes. (VI)
  7. Use technologies for the management of information, delivery of patient care, and to support nursing innovation. (IV)
- **NURSE 1-2-1-** a program designed for high school seniors (apply fall semester senior year). Students admitted to the NURSE 1-2-1 program complete courses at UW-Green Bay in years 1 and 4 and earn their Associate Degree in Nursing (ADN) at Northeast Wisconsin Technical College (NWTC) in years 2 & 3.

For nurses with an Associate Degree in Nursing (ADN)

- **RN-BSN Completion-** Offered both online via the BSN@HOME Collaborative and on campus. Eligible students must have a current, unencumbered RN license from any state in the U.S.
- **BSN-MSN Accelerated Leadership Option-** designed for RN-BSN students with leadership experience. This option allows RN-BSN students to complete select graduate (MSN) courses that will satisfy the associated RN-BSN course requirements. This allows students to accelerate their path to the MSN Leadership and Management degree.

Program Outcomes for the RN-BSN Completion (including the NURSE 1-2-1 program)

The Baccalaureate program prepares the graduate to:

1. Use knowledge from liberal and interdisciplinary problem focused education as a basis for nursing practice.
2. Use knowledge and skills in leadership, quality improvement and patient safety to provide high quality healthcare.
3. Engage in a systematic process of evaluation, translation, and application of scientific evidence to inform nursing practice.
4. Recognize the role of information management and patient care technologies to improve patient care outcomes.
5. Examine how healthcare policies, including financial and regulatory, influence healthcare systems and nursing practices.
6. Integrate interprofessional communication and collaborative skills to optimize holistic patient care.
7. Apply health promotion, disease and injury prevention strategies to improve population health.
8. Promote professionalism and model the values of altruism, autonomy, caring, human dignity, integrity and social justice in nursing practice.
9. Synthesize previous and newly acquired knowledge, theory, skills, and attitudes to address health care needs of culturally diverse individuals and populations across the continuum of healthcare environments.

#### **Master of Science in Nursing (MSN) Leadership & Management**

The MSN Leadership & Management program is designed for nurses who aspire to nursing positions at all levels of leadership. In this program, students learn from experts in their fields. Students complete a leadership practicum working directly with nurse leaders. Click for more information <https://www.uwgb.edu/msn/>

#### **MSN Program Outcomes**

The MSN Leadership and Management in Health Systems program prepares the graduates to:

1. Integrate knowledge of sciences and humanities as a basis for leadership and nursing practice.
2. Apply concepts of organizational and systems leadership in decision making in the health care environment.

3. Enact a nurse leader role in safety and quality improvement in the health care environment.
4. Apply research evidence in nursing leadership and practice to enhance care and improve outcomes of nursing.
5. Utilize informatics and health care technologies to enhance care and outcomes of nursing.
6. Intervene at the systems level through policy, fiscal management, and advocacy to influence the health care environment.
7. Communicate and collaborate as a member and leader of interprofessional teams to optimize health care delivery.
8. Analyze the role of nurse leader to reduce health disparities and promote population health.
9. Evaluate personal growth as a professional nurse leader.
10. Influence health care outcomes through master's-level nursing practice, cognizant of environmental sustainability.

## For Further Information

UWGB Nursing & Health Studies website: <https://www.uwgb.edu/nursing-health-studies/>

E-mail: [nursing@uwgb.edu](mailto:nursing@uwgb.edu)

Phone: 920-465-2826 or

Toll-free 888-NSG-UWGB (888-674-8942)

To apply online: <https://apply.wisconsin.edu/>

## RN-BSN\*

### Overview of the RN-BSN Program

UW-Green Bay has a rich history of offering RN to BSN both **on campus and online** as a part of the collaborative UW BSN@HOME program. The RN-BSN program is designed for associate degree registered nurses looking to advance their career. This accredited, high quality program is designed to be nurse friendly, flexible, and meet the needs of adult learners and working registered nurses. Faculty employ innovative, media enhanced technologies to engage students.

The program consists of 120 credits for the BSN degree that builds on the foundation of the associate degree or diploma in nursing. Prior learning is acknowledged through liberal credit transfer. The RN transfers at least 60 credits through articulation agreements. Additional credits completed at other universities, colleges, or community colleges may also transfer. The curriculum includes general education (18 credits), nursing support courses (12-15 credits), and upper level RN-BSN courses (30 credits). The online upper level RN-BSN courses are offered in 7 and 14-week sessions including the summer term.

The curriculum is designed to help students:

- Discover the latest evidence based nursing practice
- Understand how health policy impacts practice
- Expand knowledge of population health through practicum experiences close to home
- Examine cultural and global health issues facing nurses
- Learn recent advances in informatics & innovative healthcare technologies

### Admission Requirements:

- Earned Associate Degree in Nursing (ADN) or diploma in nursing
- Grade point average of 2.5 on a 4.0 scale (or equivalent) on post-secondary coursework
- Current, unencumbered RN license from any state

### Nurse 1-2-1

This unique program is designed for high school students who would like to earn a BSN through the combined resources of the nursing programs at UW-Green Bay and Northeast Wisconsin Technical College (NWTC). Prospective high school students admitted to UW-Green Bay complete a NURSE 1-2-1 application in fall of their senior year. Students complete general education and support courses in Year 1 at UW-Green Bay; complete the Associate Degree in Nursing (ADN) at NWTC in Years 2 and 3; and return to UW-Green Bay Year 4 to complete the BSN degree.

### BSN- MSN Accelerated Leadership Option

UW-Green Bay offers an accelerated path to the MSN Leadership and Management degree for qualified RN-BSN students (see below for eligibility criteria). Pay undergraduate tuition rates while you earn up to nine graduate credits. This option allows qualified undergraduate students to enroll in

three specific MSN courses (**NUR 737** Leadership in Complex Systems; **NUR 734** Evaluation and Evidence-Based Practices; **NUR 760** Informatics for Nursing Leaders).

These courses:

- satisfy both the undergraduate (RN-BSN) and graduate course requirements (*after admission to the MSN program*),
- provide more advanced content than the equivalent undergraduate course. Refresher content is available for reference,

#### **BSN-MSN Accelerated Leadership Option Eligibility Criteria**

- Experience in a leadership role
- Completion of at least six RN-BSN upper level credits with a cumulative GPA of 3.25 or higher

For more information about the BSN-MSN Accelerated Leadership Option click here <https://www.uwgb.edu/rn-bsn/> ; For more information about the MSN program, click here <https://www.uwgb.edu/msn/>.

#### **BSN (Prelicensure & RN-BSN) End-of-Program Outcomes** (based on the 2021 AACN Essentials):

1. Integrate liberal arts and interdisciplinary knowledge to develop clinical judgment and inform evidence-based nursing care across the lifespan, while systematically evaluating, translating, and applying evidence to transform healthcare through the synthesis of nursing knowledge. Domains 1 & 4
2. Demonstrate individualized, holistic, and evidence-based nursing care that integrates the values of altruism, autonomy, human dignity, and social justice within the context of individuals and their support system. Domain 2
3. Engage collaboratively with community-based stakeholders to promote data-driven, evidence-based care strategies that foster nursing innovation, equitable health outcomes, and high-quality care to diverse populations. Domain 3
4. Exhibit quality improvement, safety, and sustainability principles to enhance care quality, minimize risks, and provide equitable care to diverse populations across healthcare environments. Domain 5 & 7
5. Exemplify professionalism by fostering interprofessional collaboration, building partnerships, and communicating effectively within healthcare teams to optimize care and enhance nursing's role. Domain 6 & 9
6. Utilize informatics and healthcare technologies within nursing practice to support informed decision-making, and facilitate evidence-based strategies to promote the delivery of high-quality, equitable care. Domain 8
7. Engage in activities and self-reflection that foster resilience and well-being, contribute to lifelong learning, and support the acquisition of nursing expertise and the assertion of leadership. Domain 10

Code	Title	Credits
<b>Nursing Support</b>		<b>18-20</b>
<b>Therapeutic Nursing Intervention Electives (6 credits)</b>		
ACCTG 201	Principles of Financial Accounting	
ANTHRO 100	Varieties of World Culture	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
COMM 335	Organizational Communication	
ENV SCI 102	Introduction to Environmental Sciences	
NUT SCI 300	Human Nutrition	
PSYCH 331	Infancy and Early Childhood Development	
PSYCH 332	Middle Childhood and Adolescent Development	
PSYCH 343	Adult Development and Aging	
PSYCH 344	Dying, Death, and Loss	
PSYCH 429	Theories of Personality	
PSYCH 435	Psychopathology	
PSYCH 438	Counseling and Psychotherapy	
SOCIOL 308	Sociology of the Family	
SPANISH 101	Introduction to the Spanish Language I	
<b>Communication (choose 1 course):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Statistics (choose 1 course):</b>		

BUSAN 220	Introduction to Business Statistics
HIMT 350	Statistics for Healthcare
MATH 260	Introductory Statistics
PSYCH 205	Social Science Statistics
<b>Chemistry (choose one):</b>	
CHEM 108	Survey of General, Organic and Biochemistry
CHEM 211	Principles of Chemistry I
CHEM 212	Principles of Chemistry II
<b>Critical Thinking Elective (choose 1 course): <sup>1</sup></b>	
BUS ADM 206	Law and the Individual
ECON 202	Macro Economic Analysis
ECON 203	Micro Economic Analysis
FNS 385	First Nations Intellectual Traditions
HUM BIOL 205	Biotechnology and Human Values
HUM STUD 213	Ethnic Diversity in America Past and Present
INFO SCI 210	Information Problems
PHILOS 101	Introduction to Philosophy
PHILOS 102	Contemporary Ethical Issues
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 217	Introduction to the Philosophy of Religion
PUB ADM 202	Introduction to Public Policy
<b>Upper-Level Nursing <sup>2</sup></b>	
<b>Required</b>	
NURSING 407	Foundations of Professional Nursing Practice
NURSING 441	Chronic Care Management
NURSING 446	Research and Evidence-Based Practice <sup>#</sup>
or NURSING 734	Evaluation and Evidence-Based Practice
NURSING 447	Leadership and Management <sup>#</sup>
or NURSING 737	Leadership in Complex Systems
NURSING 453	Information Management and Healthcare Technology <sup>#</sup>
or NURSING 760	Informatics for Nursing Leaders
NURSING 454	Community Health Nursing
NURSING 455	Community Health Nursing Practicum
NURSING 490	Synthesis for Nursing Practice
NURSING 492	Special Topics in Nursing (Repeatable; 2 topics required; 6 credits total)
<b>Total Credits</b>	

30

48-50

\* includes an accelerated option - Integrated with graduate MSN Leadership program

<sup>1</sup> Critical thinking elective can be satisfied by certain humanities courses such as philosophy, or taken as a separate course.

<sup>2</sup> Progression/Graduation Policy: Students in the nursing major must receive a grade of C or better in all upper-level nursing courses. For clarification, receiving a grade of CD or C-minus necessitates retaking the course and receiving a grade of C or better.

<sup>#</sup> Students must be granted permission to enroll in Graduate level coursework. For more information, please contact the Nursing department or refer to the Graduate catalog (<https://catalog.uwgb.edu/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated/>)

## Traditional 4yr

### Overview of the Traditional BSN Program

The Traditional BSN program prepares nurse generalists to work in hospitals, long-term care, and community settings. The professional (BSN) portion of the curriculum includes 65 credits and is designed to be completed in five semesters of full time study. A concept-based approach is used to foster development of clinical reasoning by assisting students to sort, analyze, and find connections in health information.

The concepts are categorized around three main categories: **Healthcare Recipient Concepts** (e.g., Functional Ability, Family Dynamics, Culture), **Health and Illness Concepts** (e.g., Homeostasis, Protection, Mood), and **Professional Nursing Concepts** (e.g., Nursing Roles, Collaboration, Population Health, Healthcare Economics). The concepts are introduced and reinforced throughout the curriculum using exemplars or case examples that a nurse will experience in their practice. For example, the concept of immunity may be taught as a primary or interrelated concept at several points in the curriculum using exemplars such as rheumatoid arthritis, vaccination of children and adults, allergic reactions, or when understanding the immuno-compromised state a patient experiencing cancer treatment often faces. Students and faculty will engage in active learning strategies designed to emphasize application of material rather than rote memorization.

Graduates will be prepared to sit for the National Council of State Boards of Nursing Licensure Exam (NCLEX-RN).

**Admission Requirements-** Prospective nursing students apply in March the year prior to starting the Traditional BSN program.

To be considered for the Traditional BSN Program, applicants must have:

- **30 completed college credits** including at least 3 of the following 4 science courses completed or in progress
  - BIOLOGY 201 & BIOLOGY 202 or equivalent
  - CHEM 108 & CHEM 109 or equivalent
  - HUM BIOL 240 & HUM BIOL 241 or equivalent
  - BIOLOGY 323 & BIOLOGY 324 or equivalent
- **Minimum 3.0 college GPA** with no required science course grade lower than a "C"
- **Preferred criteria:**
  - Completion of Nursing Assistant Course (must be completed prior to starting nursing courses)
  - Healthcare experience
  - Community service/Volunteer experience
  - Bilingual

Admission to the Traditional Nursing program is competitive. Completion of the minimum requirements does not guarantee admission to the nursing major.

For application information including a link to the application click here <https://www.uwgb.edu/bsn/degree-path/admission-requirements/>

Admitted students must complete a Criminal Background Check (cost incurred by student) and results must comply with standards required for clinical placement.

#### **BSN (Prelicensure & RN-BSN) End-of-Program Outcomes** (based on the 2021 AACN Essentials)

1. Integrate liberal arts and interdisciplinary knowledge to develop clinical judgment and inform evidence-based nursing care across the lifespan, while systematically evaluating, translating, and applying evidence to transform healthcare through the synthesis of nursing knowledge. Domains 1 & 4
2. Demonstrate individualized, holistic, and evidence-based nursing care that integrates the values of altruism, autonomy, human dignity, and social justice within the context of individuals and their support system. Domain 2
3. Engage collaboratively with community-based stakeholders to promote data-driven, evidence-based care strategies that foster nursing innovation, equitable health outcomes, and high-quality care to diverse populations. Domain 3
4. Exhibit quality improvement, safety, and sustainability principles to enhance care quality, minimize risks, and provide equitable care to diverse populations across healthcare environments. Domain 5 & 7
5. Exemplify professionalism by fostering interprofessional collaboration, building partnerships, and communicating effectively within healthcare teams to optimize care and enhance nursing's role. Domain 6 & 9
6. Utilize informatics and healthcare technologies within nursing practice to support informed decision-making, and facilitate evidence-based strategies to promote the delivery of high-quality, equitable care. Domain 8
7. Engage in activities and self-reflection that foster resilience and well-being, contribute to lifelong learning, and support the acquisition of nursing expertise and the assertion of leadership. Domain 10

Code	Title	Credits
<b>Supporting Courses</b>		
<b>Required:</b>		<b>18</b>
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 108	Survey of General, Organic and Biochemistry	

CHEM 109	Survey of General, Organic, and Biochemistry Laboratory	
CHEM 207	Laboratory Safety	
PSYCH 102	Introduction to Psychology	
PSYCH 203	Introduction to Lifespan Development	
PSYCH 343	Adult Development and Aging	
<b>Microbiology: Choose one of the following</b>		<b>4</b>
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory	
HUM BIOL 323 & HUM BIOL 326	Medical Microbiology and Medical Microbiology Lab	
<b>Anatomy &amp; Physiology: Choose one of the following</b>		<b>5-8</b>
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab	
<b>Statistics: Choose one of the following</b>		<b>4</b>
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Nutrition: Choose one of the following</b>		<b>3</b>
NUT SCI 202	Ethnic Influences on Nutrition	
NUT SCI 208	Art and Science of Healthy Food Preparation	
NUT SCI 242	Food and Nutritional Health	
NUT SCI 250	World Food and Population Issues	
NUT SCI 300	Human Nutrition	
<b>Communication: Choose one of the following</b>		<b>3</b>
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Required Nursing Courses:</b>		<b>14</b>
NURSING 240	Introduction to Professional Nursing Concepts	
NURSING 250	Communicating and Managing Healthcare Information	
NURSING 255	Health Assessment for Nursing Practice	
NURSING 270	Basic & Intermediate Nursing Skills and Simulation	
NURSING 280	Pathophysiology Concepts for Nursing Practice	
NURSING 290	Foundations of Nursing Practice: Practicum/Experiential Learning	
<b>Upper-Level Courses <sup>1</sup></b>		
<b>Required Nursing Courses</b>		<b>51</b>
NURSING 300	Pharmacology for Nursing Practice	
NURSING 305	Healthy Aging and Chronic Care Management	
NURSING 320	Health & Illness Concepts I	
NURSING 331	Health & Illness Concepts I: Advanced Nursing Skills/Simulation	
NURSING 332	Health & Illness Concepts I: Practicum	
NURSING 340	Quality Improvement	
NURSING 350	Professional Development I: Nursing Theory, Image and Ethics	
NURSING 360	Health & Illness Concepts II	
NURSING 370	Evidence-Based Practice: Translating Research to Practice	
NURSING 380	Alterations in Health & Illness II: Practicum/Simulation	
NURSING 390	Leadership for Sustainable Healthcare: Health Disparities, Health Equity, & the Nursing Profession	
NURSING 400	Nursing Care of the Childbearing Family	
NURSING 410	Behavioral Health Care Management	
NURSING 420	Nursing with Diverse Populations Practicum	
NURSING 430	Population/Community Health Nursing Theory	

NURSING 440	Population/Community Health Nursing Practicum	
NURSING 450	Health & Illness Concepts III: Complex Care	
NURSING 461	Care Transitions Practicum Immersion	
NURSING 470	Professional Development: Navigating the Nursing Profession	
NURSING 480	Leadership: Nursing in an Evolving Healthcare System	
<b>Total Credits</b>		<b>102-105</b>

<sup>1</sup> Progression/Graduation Policy: Students in the nursing major must receive a grade of C or better in all upper-level nursing courses. For clarification, receiving a grade of CD or C-minus necessitates retaking the course and receiving a grade of C or better.

## Faculty

**Christine L Vandenhouten**; Professor; Ph.D., Marquette University, chair\*

**Myunghee Jun**; Associate Professor; Ph.D., Seoul National University\*

**Susan Hopkinson**; Assistant Professor; Ph.D., University of Maryland - Baltimore\*

**Jenna Liphart-Rhoads**; Assistant Professor; Ph.D., Capella University\*

**Cheryl Passel**; Assistant Professor; Ph.D., Marian University

**Jaclyn Holm**; Associate Teaching Professor; M.S., Bellin College

**Laura Gallahan**; Assistant Teaching Professor; M.S., Indiana State University

**Heidi Neverman**; Assistant Teaching Professor; M.S.N., University of Mary

**Erica Rollin**; Assistant Teaching Professor; M.S., University of Wisconsin - Oshkosh

**John Sponholtz**; Assistant Teaching Professor; M.S.N.E., Grand Canyon University

## Curriculum Guides (p. 287)

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

- RN-BSN
- Nursing 1-2-1
- Traditional 4yr Nursing

## Curriculum Guides

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

- RN-BSN
- Nursing 1-2-1
- Traditional 4yr Nursing

## RN-BSN

This is an example two-year plan for the Nursing RN-BSN program showing only the NURSING courses that are needed. 120 credits are necessary to graduate. This plan is only an example. You should check with your advisor for a specific plan based on your circumstances.

Course	Title	Credits
<b>Junior</b>		
<b>Fall</b>		
NURSING 407	Foundations of Professional Nursing Practice	3
NURSING 441	Chronic Care Management	3
NURSING 492	Special Topics in Nursing	3
<b>Credits</b>		<b>9</b>
<b>Spring</b>		
NURSING 446	Research and Evidence-Based Practice	3

NURSING 454	Community Health Nursing	3
<b>Credits</b>		<b>6</b>
<b>Summer</b>		
NURSING 453	Information Management and Healthcare Technology	3
<b>Credits</b>		<b>3</b>
<b>Senior</b>		
<b>Fall</b>		
NURSING 455	Community Health Nursing Practicum	3
NURSING 447	Leadership and Management	3
<b>Credits</b>		<b>6</b>
<b>Spring</b>		
NURSING 490	Synthesis for Nursing Practice	3
NURSING 492	Special Topics in Nursing	3
<b>Credits</b>		<b>6</b>
<b>Total Credits</b>		<b>30</b>

## Nursing 1-2-1

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

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
First Year Seminar		3
COMM 102 or COMM 133	Introduction to Communication or Fundamentals of Public Address	3
MATH 94 or MATH 101	Elementary Algebra or Advanced Algebra	3
PSYCH 102	Introduction to Psychology	3
WF 100	First Year Writing	3
<b>Credits</b>		<b>15</b>
<b>Winter</b>		
a HUMANITIES course (not PHILOS)		3
<b>Credits</b>		<b>3</b>
<b>Spring</b>		
CHEM 108 & CHEM 109	Survey of General, Organic and Biochemistry and Survey of General, Organic, and Biochemistry Laboratory	4
PSYCH 203	Introduction to Lifespan Development	3
PSYCH 205	Social Science Statistics	4
WF 105	Research and Rhetoric	3
a FINE ARTS course		3
<b>Credits</b>		<b>17</b>
<b>Summer</b>		
CNA Courses taken at NWTC prior to Fall 2nd Year		
30-543-300 Nursing Assistant		
<b>Credits</b>		<b>0</b>
<b>Second Year</b>		
<b>Fall</b>		
Courses taken at NWTC		
10-432-101 Nursing Fundamentals		2
10-543-102 Nursing Skills		3
10-543-103 Nursing Pharmacology		2
10-543-104 Nsg: Intro to Clinical Practice		2
10-806-177 Gen Anatomy & Physiology		4
<b>Credits</b>		<b>13</b>
<b>Winter</b>		
Courses taken at NWTC		
10-809-172 Intro to Diversity Studies		3
<b>Credits</b>		<b>3</b>
<b>Spring</b>		
Courses taken at NWTC		



10-543-105 Nursing Health Alterations		3
10-543-106 Nursing Health Promotion		3
10-543-107 Nsg: Clin Care Across Lifespan		2
10-543-108 Nsg: Intro Clinical Care Mgt		2
10-806-173 Advanced Anatomy & Physiology		4
<b>Credits</b>		<b>14</b>
<b>Third Year</b>		
<b>Fall</b>		
Courses taken at NWTC		
10-543-109 Nsg: Complex Health Alterat 1		3
10-543-110 Nsg: Mental Health Comm Con		2
10-543-111 Nsg: Intermed Clin Practice		3
10-543-112 Nursing Advanced Skills		1
10-806-197 Microbiology		4
<b>Credits</b>		<b>13</b>
<b>Winter</b>		
Courses taken at NWTC		
10-809-166 Intro to Ethics OR 10-809-103 Thinking Critically		3
<b>Credits</b>		<b>3</b>
<b>Spring</b>		
Courses taken at NWTC		
10-543-113 Nsg: Complex Health Alterat 2		3
10-543-114 Nsg: Mgt & Profess Concepts		2
10-543-115 Nsg: Adv Clinical Practice		3
10-543-116 Nursing Clinical Transition		2
10-480-101 Energy- Intro OR 10-806-112 Princ. of Sustainability		3
<b>Credits</b>		<b>13</b>
<b>Summer</b>		
NURSING 453	Information Management and Healthcare Technology	3
NURSING 492	Special Topics in Nursing	3
<b>Credits</b>		<b>6</b>
<b>Fourth Year</b>		
<b>Fall</b>		
NURSING 407	Foundations of Professional Nursing Practice	3
NURSING 441	Chronic Care Management	3
NURSING 454	Community Health Nursing	3
NURSING 455	Community Health Nursing Practicum	3
<b>Credits</b>		<b>12</b>
<b>Spring</b>		
NURSING 446	Research and Evidence-Based Practice	3
NURSING 447	Leadership and Management	3
NURSING 490	Synthesis for Nursing Practice	3
NURSING 492	Special Topics in Nursing (Required Topic: Global Aspects of Healthcare)	3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>124</b>

## Traditional 4yr Nursing

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
First Year Seminar		3
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
MATH 101	Advanced Algebra	2
PSYCH 203	Introduction to Lifespan Development	3
WF 100	First Year Writing	3
<b>Credits</b>		<b>16</b>

<b>Spring</b>		
CHEM 108 & CHEM 109	Survey of General, Organic and Biochemistry and Survey of General, Organic, and Biochemistry Laboratory	4
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
PSYCH 102	Introduction to Psychology	3
WF 105	Research and Rhetoric	3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 323	Principles of Microbiology	3
BIOLOGY 324	Principles of Microbiology Laboratory	1
COMM choose one		
NUT SCI 202 or NUT SCI 250	Ethnic Influences on Nutrition or World Food and Population Issues	3
PSYCH 205	Social Science Statistics	4
PSYCH 343	Adult Development and Aging	3
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
NURSING 240	Introduction to Professional Nursing Concepts	2
NURSING 250	Communicating and Managing Healthcare Information	2
NURSING 255	Health Assessment for Nursing Practice	3
NURSING 270	Basic & Intermediate Nursing Skills and Simulation	2
NURSING 280	Pathophysiology Concepts for Nursing Practice	3
NURSING 290	Foundations of Nursing Practice: Practicum/Experiential Learning	2
Gen Ed or Nursing support (SOC SCI)		3
<b>Credits</b>		<b>17</b>
<b>Junior</b>		
<b>Fall</b>		
NURSING 300	Pharmacology for Nursing Practice	3
NURSING 305	Healthy Aging and Chronic Care Management	3
NURSING 320	Health & Illness Concepts I	3
NURSING 331 & NURSING 332	Health & Illness Concepts I: Advanced Nursing Skills/Simulation and Health & Illness Concepts I: Practicum	3
NURSING 340	Quality Improvement	2
Gen Ed or Nursing Support (HUM)		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
NURSING 350	Professional Development I: Nursing Theory, Image and Ethics	3
NURSING 360	Health & Illness Concepts II	3
NURSING 370	Evidence-Based Practice: Translating Research to Practice	2
NURSING 380	Alterations in Health & Illness II: Practicum/Simulation	2
NURSING 390	Leadership for Sustainable Healthcare: Health Disparities, Health Equity, & the Nursing Profession	3
Gen Ed or Nursing Support (ETS or GC)		3
<b>Credits</b>		<b>16</b>
<b>Senior</b>		
<b>Fall</b>		
NURSING 400	Nursing Care of the Childbearing Family	3
NURSING 410	Behavioral Health Care Management	3
NURSING 420	Nursing with Diverse Populations Practicum	2
NURSING 430	Population/Community Health Nursing Theory	3
NURSING 440	Population/Community Health Nursing Practicum	1
Gen Ed or Nursing Support (FA)		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
NURSING 450	Health & Illness Concepts III: Complex Care	3
NURSING 461	Care Transitions Practicum Immersion	4
NURSING 470	Professional Development: Navigating the Nursing Profession	2
NURSING 480	Leadership: Nursing in an Evolving Healthcare System	3

Gen Ed or Nursing Support	3
<b>Credits</b>	<b>15</b>
<b>Total Credits</b>	<b>125</b>

# Organizational Leadership

(Bachelor of Arts or Bachelor of Applied Studies)

Organizational leadership crosses disciplinary, organizational, community, and cultural boundaries and teaches students how to contribute as citizens in a complex, multi-cultural world. Program graduates are well-positioned to embark on new careers or further study in multiple fields, or to advance in their current careers. Organizational Leadership upper-level core coursework (18 credits) introduces students to the major theories and models of leadership, with a focus on how to use these theories and models to transform leadership in practice. Students also develop fundamental leadership skills such as communication, human resources management, financial management, and applied organizational research.

The **Bachelor of Arts** degree (B.A.) is suitable for:

- Students who already have an Associate of Arts & Sciences degree
- Students who have taken a few college courses and wish to transfer in some credits
- Students who are beginning college and select Organizational Leadership as their major

The **Bachelor of Applied Studies** degree (B.A.S.) requires that a student have an Applied Associate Degree. Students accepted into this program will be able to transfer coursework from any Wisconsin Technical College System campus and enter the University as juniors. Students then complete enough additional credits to satisfy UW-Green Bay general education requirements, requirements for the Organizational Leadership major, and all other degree requirements.

Learning Outcomes for the Organizational Leadership Major

1. Apply the principles and practices of leadership to interact positively with a wide range of individuals, groups, organizations, and communities.
2. Apply tools of leaders such as financial and risk management, organizational research/assessment, negotiation, planning, and communication strategies.
3. Use data and research to think critically and creatively about strategic opportunities and challenges to help organizations adapt effectively to changing contexts, including utilizing AI tools to create surveys and analyze data to facilitate evidence-based decision-making.
4. Understand and apply approaches to collaborating with individuals and groups to promote effective organizations.
5. Practice engaged, ethical, and socially responsible leadership in the context of social, cultural, and global diversity.

Code	Title	Credits
<b>Organizational Leadership Core</b>		
<b>Supporting Courses</b>		<b>6</b>
ORG LEAD 198	Introduction to Leadership	
<b>Communication Skills (choose one):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>18</b>
<b>Required Courses:</b>		
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
<b>Choose one:</b>		
MGMT 389	Organizational Behavior	
ORG LEAD 348	Organizational Behavior Across Sectors	
<b>Total Credits</b>		<b>24</b>

## Areas of Emphasis (p. 292)

A unique feature of the Organizational Leadership major is the choice of an area of emphasis, which typically consists of four or five courses (12-18 credits) in a student's preferred area of focus. Areas of Emphasis include: (p. 292)

- Applied Communication (p. 292)
- Business Administration (p. 292)
- Criminal Justice Administration (p. 292)
- Early Childhood Education (p. 292)
- Emergency Management, Planning, and Administration (p. 292)
- Environmental Policy & Planning (p. 292)
- Management in Health Systems (p. 292)
- Public and Nonprofit Management (p. 292)
- Rising Leadership (p. 292)
- Self-Directed (must be approved by Program Chair/Coordinator) (p. 292)

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
ORG LEAD 198	Introduction to Leadership	
<b>Choose one:</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>15</b>
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	
<b>Choose one:</b>		
MGMT 389	Organizational Behavior	
ORG LEAD 348	Organizational Behavior Across Sectors	
<b>Total Credits</b>		<b>21</b>

## Faculty

**Kerry Kuenzi**; Associate Professor; Ph.D., University of Colorado\*

# Organizational Leadership Major

## Major Area of Emphasis

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

- Applied Communication
- Business Administration
- Criminal Justice Administration
- Early Childhood Education
- Emergency Management, Planning, and Administration\*
- Environmental Policy & Planning
- Management in Health Systems
- Public and Nonprofit Management\*
- Rising Leadership
- Self-Directed (must be approved by Program Chair/Coordinator)

\* includes an Accelerated option - Integrated with graduate Public Administration program

## Applied Communication

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ORG LEAD 198	Introduction to Leadership	
<b>Communication Skills (choose 2 courses):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 185	Business and Media Writing	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>18</b>
<b>Required Courses:</b>		
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	
<b>Choose one:</b>		
MGMT 389	Organizational Behavior	
ORG LEAD 348	Organizational Behavior Across Sectors	
<b>Applied Communication Electives:</b>		<b>12</b>
Choose 12 credits of 300/400-level COMM courses		
<b>Total Credits</b>		<b>39</b>

## Business Administration

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
BUS ADM 202	Introduction to Business	
ORG LEAD 198	Introduction to Leadership	
<b>Communication Skills (choose one):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>18</b>
<b>Required Courses:</b>		
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
<b>Choose one:</b>		
MGMT 389	Organizational Behavior	
ORG LEAD 348	Organizational Behavior Across Sectors	
<b>Business Administration Emphasis: (Choose 4 courses)</b>		<b>12-13</b>
ENTRP 481	Small Business Management & Family Entrepreneurship	
MGMT 472	Leadership Development	
MGMT 479	Organizational Culture & Design	
SCM 380	Project Management	

SCM 384	Advanced Supply Chain Management	
<b>Total Credits</b>		<b>39-40</b>

## Criminal Justice Administration

Code	Title	Credits
<b>Organizational Leadership Core</b>		
<b>Supporting Courses</b>		<b>6</b>
ORG LEAD 198	Introduction to Leadership	
<b>Communication Skills (choose one course):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>30</b>
<b>Required Courses:</b>		
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
<b>Choose one of the following:</b>		
ORG LEAD 348	Organizational Behavior Across Sectors	
or MGMT 389	Organizational Behavior	
<b>Criminal Justice Administration Emphasis</b>		
<b>Required Course</b>		
POL SCI 322	Politics of Crime and Punishment	
<b>Elective Courses (choose 3 courses)</b>		
POL SCI 361	Immigration and Immigration Policy	
SOCIOL 304	Deviant Behavior	
SOCIOL 315	Street Gangs in America	
SOCIOL 316	Criminal Justice Systems, Administration, and Processes	
SOCIOL 404	Criminology	
PHILOS 326	Philosophy, Politics and Law	
EPP 379	Natural Resources Policy, Law, and Administration	
<b>Total Credits</b>		<b>36</b>

## Early Childhood Education

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
ORG LEAD 198	Introduction to Leadership	
<b>Communication Skills (choose one):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>18</b>
<b>Required Courses:</b>		
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	

**Choose one:**

MGMT 389	Organizational Behavior
ORG LEAD 348	Organizational Behavior Across Sectors

**Early Childhood Education Emphasis: 18****Required courses:**

EDUC 340	Supporting Learning and Behavior in the Classroom
EDUC 361	Introduction to the Art and Science of Teaching
EDUC 444	Current Trends in Education
PSYCH 331	Infancy and Early Childhood Development

**Elective (6 credits):**

any upper-level EDUC or PSYCH course

**Total Credits 42****Emergency Management\***

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
ORG LEAD 198	Introduction to Leadership	
<b>Communication Skills (choose one):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>18</b>
<b>Required Courses:</b>		
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	
<b>Choose one:</b>		
MGMT 389	Organizational Behavior	
ORG LEAD 348	Organizational Behavior Across Sectors	
<b>Emergency Management Emphasis (choose 12 credits):</b>		<b>12</b>
PUB ADM 335/535	Principles and Practices of Emergency Management #	
PUB ADM 336/536	Strategic Emergency Preparedness, Planning and Implementation #	
PUB ADM 337/537	Disaster Response Operations and Management #	
PUB ADM 338	Disaster Recovery	
PUB ADM 339/539	Political and Policy Dimensions of Emergency Management #	
<b>Total Credits</b>		<b>36</b>

\* includes an Accelerated option - Integrated with graduate Public Administration program

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

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
EPP 102	Environment and Society	
ORG LEAD 198	Introduction to Leadership	
<b>Communication Skills (choose one):</b>		
COMM 102	Introduction to Communication	

COMM 133	Fundamentals of Public Address
COMM 166	Fundamentals of Interpersonal Communication
COMM 237	Small Group Communication
<b>Upper-Level Courses</b>	
<b>Required Courses:</b>	
ORG LEAD 346	Organizational Research and Statistics
ORG LEAD 347	Budgeting and Financial Management
ORG LEAD 400	Organizational Leadership Capstone
PUB ADM 344	Leadership in Organizations
PUB ADM 345	Human Resource and Risk Management
<b>Choose one:</b>	
MGMT 389	Organizational Behavior
ORG LEAD 348	Organizational Behavior Across Sectors
<b>Environmental Policy and Planning (choose 4 courses):</b>	
EPP 323	Sustainable Land Use
EPP 324	Transitioning to Sustainable Communities
GEOG 321	Coastal Resources Policy and Management
PUB ADM 301	Environmental Politics and Policy
PUB ADM 408	Public Policy Analysis
PUB ADM 428	Public and Nonprofit Program Evaluation
PUB ADM 497	Internship
<b>Total Credits</b>	

18

12

39

## Management in Health Systems

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
ORG LEAD 198	Introduction to Leadership	
<b>Communication Skills (choose one):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>18</b>
<b>Required Courses:</b>		
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	
<b>Choose one :</b>		
MGMT 389	Organizational Behavior	
ORG LEAD 348	Organizational Behavior Across Sectors	
<b>Healthcare Management Emphasis:</b>		<b>12</b>
HLTH MGT 301	Health Care Systems	
HLTH MGT 302	Healthcare Management	
HLTH MGT 401	Healthcare Economics & Policy	
HLTH MGT 402	Population Healthcare Management	
<b>Total Credits</b>		<b>36</b>



## Public and Nonprofit Management\*

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
ORG LEAD 198	Introduction to Leadership	
PUB ADM 215	Introduction to Public and Nonprofit Service	
<b>Communication Skills (choose one):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>18</b>
<b>Required Courses:</b>		
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
PUB ADM 344	Leadership in Organizations	
PUB ADM 345/545	Human Resource and Risk Management #	
<b>Choose one</b>		
MGMT 389	Organizational Behavior	
ORG LEAD 348	Organizational Behavior Across Sectors	
<b>Public and Nonprofit Management Emphasis (choose 12 credits):</b>		<b>12</b>
PUB ADM 314/514	Administrative Law #	
PUB ADM 315	Public and Non-Profit Management	
PUB ADM 326	Philanthropy: Civic Engagement through Giving	
PUB ADM 407/607	Service in the Public Sector #	
PUB ADM 408	Public Policy Analysis	
PUB ADM 415	Public and Nonprofit Budgeting	
PUB ADM 425/625	Marketing, Fund Development, and Grant Writing for Nonprofits #	
PUB ADM 428/628	Public and Nonprofit Program Evaluation #	
PUB ADM 497	Internship	
<b>Total Credits</b>		<b>39</b>

\* includes an Accelerated option - Integrated with graduate Public Administration program

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

## Rising Leadership

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
ORG LEAD 198	Introduction to Leadership	
<b>Choose one:</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>18</b>
<b>Required:</b>		
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	

ORG LEAD 400	Organizational Leadership Capstone	
<b>Choose one:</b>		
MGMT 389	Organizational Behavior	
ORG LEAD 348	Organizational Behavior Across Sectors	
<b>Rising Leadership Emphasis</b>		<b>15</b>
ORG LEAD 301	Rising Leadership	
ORG LEAD 302	Gender & Equity in Organizational Leadership	
SOCIOL 238	Sociological Perspectives on Gender	
WOST 203	Gender in Popular Culture	
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
<b>Total Credits</b>		<b>39</b>

## Self-Directed

Code	Title	Credits
<b>Organizational Leadership Core</b>		
<b>Supporting Courses</b>		<b>6</b>
ORG LEAD 198	Introduction to Leadership	
<b>Communication Skills (choose one course):</b>		
COMM 102	Introduction to Communication	
COMM 133	Fundamentals of Public Address	
COMM 166	Fundamentals of Interpersonal Communication	
COMM 237	Small Group Communication	
<b>Upper-Level Courses</b>		<b>18</b>
<b>Required Courses:</b>		
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	
ORG LEAD 346	Organizational Research and Statistics	
ORG LEAD 347	Budgeting and Financial Management	
ORG LEAD 400	Organizational Leadership Capstone	
<b>Choose one of the following:</b>		
ORG LEAD 348	Organizational Behavior Across Sectors	
or MGMT 389	Organizational Behavior	
<b>Self-Directed Emphasis</b>		<b>12</b>
Choose 12 credits of 300 - 400 upper level courses approved by an adviser.		
<b>Total Credits</b>		<b>36</b>

## Personal Financial Planning

A CFP Board Registered Approved program that prepares students for the financial planning profession to help future financial planning clients maximize life goals through financial advice. This program satisfies the educational requirements for students to be eligible to sit for the Certified Financial Planner™ exam. The program includes the planning domains of personal financial planning fundamentals and planning skills across retirement savings & income planning, tax & estate, household risk management & insurance, and financial plan development. This program helps students develop professional ethics and client communication skills that are particular to financial planning.

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9-10</b>
ACCTG 201	Principles of Financial Accounting	
FIN 282	Personal Financial Planning	
<b>Statistics (Choose One):</b>		
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	

Upper-level Courses		21
ACCTG 410	Introduction to Income Tax Theory and Practice	
FIN 343	Corporation Finance	
FIN 345	Risk Management and Insurance	
FIN 415	Employee Benefits and Retirement Planning	
FIN 425	Estate and Trust Planning	
FIN 442	Principles of Investment	
FIN 475	Financial Plan Development	
<b>Total Credits</b>		<b>30-31</b>

## Faculty

**Rasoul Rezvanian**; Professor; Ph.D., Southern Illinois University

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

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

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

**Zhuoli Axelton**; Assistant Professor; Ph.D., Washington State University

**Preston Cherry**; Assistant Professor; Ph.D., Texas Tech University

**Heather Kaminski**; Assistant Professor; D.B.A., Anderson University

**Eu Jin Kwak**; Assistant Professor; Ph.D., University of Georgia\*

**Grace (Fangjun) Sang**; Assistant Professor; Ph.D., Kent State

**Kevin Jaklin**; Assistant Teaching Professor; M.B.A., University of Wisconsin - Oshkosh, chair

## 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.
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.

## Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
PHILOS 213 or PHILOS 214	Ancient Philosophy Early Modern Philosophy	
<b>Choose two of the following courses:</b>		
PHILOS 101	Introduction to Philosophy	
PHILOS 102	Contemporary Ethical Issues	
PHILOS 103	Logic and Reasoning	
PHILOS 105	Is Morality for Sale?	
PHILOS 208	Biomedical Ethics	
PHILOS 211	Philosophy of Art	
PHILOS 212	Philosophy, Religion, and Science	
PHILOS 213	Ancient Philosophy	
PHILOS 214	Early Modern Philosophy	
PHILOS 216	Introduction to Asian Philosophy	
PHILOS 217	Introduction to the Philosophy of Religion	
PHILOS 220	Environmental Ethics	
PHILOS 227	Business Ethics	
<b>Upper-Level Courses</b>		<b>24</b>
<b>History of Philosophy (Choose two courses):</b>		
PHILOS 309	Religion and Medieval Philosophy	
PHILOS 323	Modern Philosophy	
PHILOS 324	Contemporary Philosophy	
PHILOS 401	Plato and Aristotle	
<b>Philosophical Issues (Choose two courses):</b>		
PHILOS 301	Ethical Theory	
PHILOS 308	Philosophy and the Sciences	
PHILOS 326	Philosophy, Politics and Law	
PHILOS 420	Metaphysics	
<b>Choose four additional upper-level elective courses from those listed above, including:</b>		
PHILOS 403	Topics in Philosophy	
<b>Total Credits</b>		<b>33</b>

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
PHILOS 213 or PHILOS 214	Ancient Philosophy Early Modern Philosophy	
<b>Choose two of the following courses:</b>		
PHILOS 101	Introduction to Philosophy	
PHILOS 102	Contemporary Ethical Issues	
PHILOS 103	Logic and Reasoning	
PHILOS 105	Is Morality for Sale?	
PHILOS 208	Biomedical Ethics	
PHILOS 212	Philosophy, Religion, and Science	
PHILOS 213	Ancient Philosophy	
PHILOS 214	Early Modern Philosophy	
PHILOS 216	Introduction to Asian Philosophy	
PHILOS 217	Introduction to the Philosophy of Religion	
PHILOS 220	Environmental Ethics	

PHILOS 227	Business Ethics	
<b>Upper-Level Courses</b>		<b>12</b>
<b>History of Philosophy (Choose one course):</b>		
PHILOS 309	Religion and Medieval Philosophy	
PHILOS 323	Modern Philosophy	
PHILOS 324	Contemporary Philosophy	
PHILOS 401	Plato and Aristotle	
PHILOS 403	Topics in Philosophy (If content is historical rather than topical)	
PHILOS 498	Independent Study (If content is historical rather than topical) <sup>1</sup>	
<b>Philosophical Issues (Choose one course):</b>		
PHILOS 301	Ethical Theory	
PHILOS 308	Philosophy and the Sciences	
PHILOS 326	Philosophy, Politics and Law	
PHILOS 420	Metaphysics	
PHILOS 498	Independent Study (If content is topical rather than historical) <sup>1</sup>	
PHILOS 403	Topics in Philosophy (If content is topical rather than historical)	
<b>Choose two additional upper-level elective courses from those listed above:</b>		
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> PHILOS 498 courses are created and faculty approved and identified as a topical or historical content course substitution to the respective academic requirements in the Student Information System.

## Curriculum Guide

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.

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

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
PHILOS 101	Introduction to Philosophy	3
PHILOS 213	Ancient Philosophy	3
First Year Seminar		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
PHILOS 214	Early Modern Philosophy	3
PHILOS 212	Philosophy, Religion, and Science	3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
PHILOS 309	Religion and Medieval Philosophy	3
PHILOS 102	Contemporary Ethical Issues	3
General Ed		3
Elective		3
<b>Credits</b>		<b>12</b>
<b>Spring</b>		
PHILOS 301	Ethical Theory	3
PHILOS 308	Philosophy and the Sciences	3
General Ed		3

Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
PHILOS 401	Plato and Aristotle	3
PHILOS 323	Modern Philosophy	3
General Ed		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
PHILOS 326	Philosophy, Politics and Law	3
PHILOS 403	Topics in Philosophy	3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
PHILOS 420	Metaphysics	3
General Ed		3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
PHILOS 403	Topics in Philosophy	3
General Ed		3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>117</b>

## Faculty

**Derek S Jeffreys**; Professor; Ph.D., University of Chicago

**Hye-Kyung Kim**; Professor; Ph.D., Marquette University, chair

**Damon Watson**; Assistant Teaching Professor; Ph.D., Marquette University

## 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.

## Major Area of Emphasis (p. 305)

Students must complete requirements in one of the following areas of emphasis: (p. 305)

- General (p. 305) Political Science
- Social Studies Education (p. 305)

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
<b>Choose two of the following:</b>		
POL SCI 100	Global Politics and Society	
POL SCI 101	American Government and Politics	
PUB ADM 202	Introduction to Public Policy	
PUB ADM 215	Introduction to Public and Nonprofit Service	
<b>Upper-Level Courses</b>		<b>12</b>
<b>Choose four of the following:</b>		
DJS 320	Constitutional Law	
DJS 348	Gender and the Law	
GERMAN 358	German Politics and Society	
HISTORY 334	Contemporary Europe	
POL SCI 305	Urban Politics and Policy	
POL SCI 310	The American Presidency	
POL SCI 312	Community Politics	
POL SCI 316	Congress: Politics and Policy	
POL SCI 318	Political Behavior	
POL SCI 333	Political Science Research Lab	
POL SCI 340	Political Theory	
POL SCI 349	American Political Thought	
POL SCI 351	Comparative Politics	
POL SCI 353	Politics of Developing Areas	
POL SCI 360	International Relations	
POL SCI 361	Immigration and Immigration Policy	
POL SCI 370	Foreign and Defense Policies	
POL SCI 380	Global Environmental Politics and Policy	
POL SCI 406	State and Local Government	
POL SCI 497	Internship	
POL SCI 498	Independent Study	
POL SCI 499	Travel Course	
PUB ADM 301	Environmental Politics and Policy	
PUB ADM 306	Regulatory Policy and Administration	
PUB ADM 314	Administrative Law	
PUB ADM 408	Public Policy Analysis	
POL SCI 322	Politics of Crime and Punishment	
<b>Total Credits</b>		<b>18</b>

## Curriculum Guide

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.

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

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
POL SCI 101	American Government and Politics	3
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
POL SCI 100	Global Politics and Society	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
BUSAN 220 or PSYCH 205 or MATH 260	Introduction to Business Statistics or Social Science Statistics or Introductory Statistics	3-4
POL SCI 351	Comparative Politics	3
PUB ADM 202 or PUB ADM 215	Introduction to Public Policy or Introduction to Public and Nonprofit Service	3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15-16</b>
<b>Spring</b>		
POL SCI 318	Political Behavior	3
POL SCI 360	International Relations	3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
DJS 320	Constitutional Law	3
POL SCI 361	Immigration and Immigration Policy	3
PUB ADM 301 or POL SCI 305 or PUB ADM 306 or PUB ADM 408	Environmental Politics and Policy or Urban Politics and Policy or Regulatory Policy and Administration or Public Policy Analysis	3
Elective		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
POL SCI 316	Congress: Politics and Policy	3
POL SCI 370	Foreign and Defense Policies	3
POL SCI 353	Politics of Developing Areas	3
POL SCI 380	Global Environmental Politics and Policy	3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
POL SCI Upper Level Elective (could include one counting toward Public Administration or DJS minor)		3
POL SCI Upper Level Elective (could include one counting toward Public Administration or DJS minor)		3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
POL SCI Upper Level Elective (could include one counting toward Public Administration or DJS minor)		3



Elective	3
Elective	3
Elective	3
Elective	3
<b>Credits</b>	<b>15</b>
<b>Total Credits</b>	<b>120-121</b>

## Faculty

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

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

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

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

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

## Political Science Major

### Major Area of Emphasis

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

- General Political Science
- Social Studies Education

### General Political Science

Code	Title	Credits
<b>Supporting Courses</b>		<b>12-13</b>
POL SCI 100	Global Politics and Society	
POL SCI 101	American Government and Politics	
<b>Choose one:</b>		
PUB ADM 202	Introduction to Public Policy	
PUB ADM 215	Introduction to Public and Nonprofit Service	
<b>Statistics (choose one):</b>		
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Upper-Level Courses</b>		<b>24</b>
<b>American Public Policy (Choose one):</b>		
POL SCI 305	Urban Politics and Policy	
PUB ADM 301	Environmental Politics and Policy	
PUB ADM 306	Regulatory Policy and Administration	
PUB ADM 408	Public Policy Analysis	
<b>Comparative Politics (Choose one):</b>		
POL SCI 351	Comparative Politics	
POL SCI 353	Politics of Developing Areas	
<b>International Relations (Choose one):</b>		
POL SCI 360	International Relations	
POL SCI 370	Foreign and Defense Policies	
<b>Global Politics (Choose one):</b>		
POL SCI 361	Immigration and Immigration Policy	
POL SCI 380	Global Environmental Politics and Policy	
<b>American Government (Choose one):</b>		
DJS 320	Constitutional Law	

POL SCI 316	Congress: Politics and Policy
POL SCI 318	Political Behavior
<b>Electives (Choose 9 credits from the following list, not taken above):</b>	
DJS 320	Constitutional Law
DJS 325	Law and Society
DJS 348	Gender and the Law
GERMAN 358	German Politics and Society
HISTORY 334	Contemporary Europe
POL SCI 305	Urban Politics and Policy
POL SCI 310	The American Presidency
POL SCI 312	Community Politics
POL SCI 316	Congress: Politics and Policy
POL SCI 318	Political Behavior
POL SCI 322	Politics of Crime and Punishment
POL SCI 333	Political Science Research Lab
POL SCI 340	Political Theory
POL SCI 349	American Political Thought
POL SCI 351	Comparative Politics
POL SCI 353	Politics of Developing Areas
POL SCI 360	International Relations
POL SCI 361	Immigration and Immigration Policy
POL SCI 370	Foreign and Defense Policies
POL SCI 378	Environmental Law
POL SCI 380	Global Environmental Politics and Policy
POL SCI 406	State and Local Government
POL SCI 480	Senior Seminar/Capstone in Political Science
POL SCI 497	Internship
POL SCI 498	Independent Study
POL SCI 499	Travel Course
PUB ADM 301	Environmental Politics and Policy
PUB ADM 306	Regulatory Policy and Administration
PUB ADM 314	Administrative Law
PUB ADM 408	Public Policy Analysis

**Total Credits****36-37**

## Social Studies Education

Code	Title	Credits
<b>Supporting Courses</b>		<b>12</b>
POL SCI 101	American Government and Politics	
HISTORY 207	Introduction to African-American History	
<b>Choose one of the following:</b>		
POL SCI 100	Global Politics and Society	
HISTORY 101	Foundations of Western Culture I	
HISTORY 102	Foundations of Western Culture II	
HISTORY 103	World Civilizations I	
HISTORY 104	World Civilizations II	
FNS 374	Wisconsin First Nations History	
<b>Choose one of the following:</b>		
HISTORY 205	American History to 1865	
HISTORY 206	History of the United States from 1865 to the Present	
<b>Quantitative Licensure Requirement (choose one)</b>		<b>3</b>
PSYCH 205	Social Science Statistics	

MATH 100	Math Appreciation	
MATH 101	Advanced Algebra	
<b>Required Content Courses</b>		<b>15</b>
FNS 225	Introduction to First Nations Studies	
HISTORY 365	U.S. Labor and the Working Class: Past and Present	
POL SCI 406	State and Local Government	
<b>Choose one of the following:</b>		
POL SCI 351	Comparative Politics	
HISTORY 423	Topics in Modern European History (Nazi Germany (covers Holocaust))	
HISTORY 333	Europe in the 20th Century	
DJS 353	The U.S. and the World	
DJS 363	Topics in Democracy and Justice	
<b>Choose one of the following:</b>		
HISTORY 220	American Environmental History	
HISTORY 326	Global Environmental History	
POL SCI 380	Global Environmental Politics and Policy	
PUB ADM 301	Environmental Politics and Policy	
<b>Broadfield Requirements</b>		<b>12</b>
ECON 202	Macro Economic Analysis	
or ECON 203	Micro Economic Analysis	
PSYCH 102	Introduction to Psychology	
or PSYCH 203	Introduction to Lifespan Development	
SOCIOL 101	Introduction to Sociology	
or SOCIOL 203	Ethnic and Racial Identities	
or SOCIOL 238	Sociological Perspectives on Gender	
SOCIOL 216	Native American Landscapes:Imagined and Lived Spaces (or GEOG 200-level or higher)	
<b>Additional Political Science Disciplinary Courses</b>		<b>6</b>
Choose any two additional POL SCI 300-level or higher courses		
<b>Total Credits</b>		<b>48</b>

## Psychology

(Bachelor of Science)

Psychology is the systematic and scientific study of behavior and mental processes (e.g., memory, emotion). It seeks to explain how physiological, personal, cultural, social, developmental, and environmental conditions influence thought and action. Research aims to understand, predict, and influence behavior.

In the past century, psychology has moved from being a branch of philosophy to being both an experimental science and an active helping profession.

Likewise, psychologists work in a variety of settings where their expertise in human behavior is applied to increase efficiency, assist in product design, improve work conditions, and more. To quote the American Psychological Association, "In every conceivable setting from scientific research centers to mental healthcare services, 'the understanding of behavior' is the enterprise of psychologists" ([www.apa.org](http://www.apa.org)).

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, Culture/Gender, and Clinical/Counseling. Students complete the major by choosing additional courses to meet individual needs with the help of their Professional Advisor. Students should consult with their Faculty Mentor about career planning and professional development.

The program offers special opportunities for qualified 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 several research labs. 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 can be acquired in a variety of university and 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 their bachelor's degree, including in social and community service, business, research, and education-related fields from after-school programs to college admissions. Because of the wide range of possibilities, students should select courses and pursue applied experiences relevant to the occupational area of greatest interest. 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, neuroscience, industrial/organizational, social, sport, exercise, and performance psychology, clinical, counseling, and 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 an advisor.

Psychology Learning Outcomes

GOAL 1 Content Knowledge and Applications

- 1.1 Describe key concepts, principles, and theories in psychological science
- 1.2 Develop a working knowledge of psychology’s major subfields
- 1.3 Portray significant aspects of the history of psychological science
- 1.4 Apply psychological content to solve practical problems
- 1.5 Provide examples of psychology’s integrative themes\*

GOAL 2 Scientific Inquiry and Critical Thinking

- 2.1 Exercise scientific reasoning to investigate psychological phenomena
- 2.2 Interpret, design, and evaluate psychological research
- 2.3 Incorporate sociocultural factors in scientific research practices
- 2.4 Use statistics to evaluate quantitative research findings

GOAL 3 Values in Psychological Science

- 3.1 Employ ethical standards in research, practice, and academic contexts
- 3.2 Develop and practice interpersonal and intercultural responsiveness
- 3.3 Apply psychological principles to strengthen community and improve quality of life

GOAL 4 Communication, Psychological Literacy, and Technology Skills

- 4.1 Interact effectively with others
- 4.2 Write and present effectively for different purposes
- 4.3 Provide evidence of psychological literacy
- 4.4 Exhibit appropriate technological skills to improve communication

GOAL 5 Personal and Professional Development

- 5.1 Exhibit effective self-regulation
- 5.2 Refine project management skills
- 5.3 Display effective judgment in professional interactions
- 5.4 Cultivate workforce collaboration skills
- 5.5 Demonstrate appropriate workforce technological skills
- 5.6 Develop direction for life after graduation

<https://www.apa.org/about/policy/undergraduate-psychology-major.pdf>

Major

Code	Title	Credits
Supporting Courses		12-14
PSYCH 102	Introduction to Psychology	

PSYCH 203	Introduction to Lifespan Development
<b>Biology (choose one):</b>	
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes
HUM BIOL 102	Introduction to Human Biology
HUM BIOL 240	Anatomy and Physiology
<b>Statistics (choose one):</b>	
PSYCH 205	Social Science Statistics
BUSAN 220	Introduction to Business Statistics (for Business major and minors only)
MATH 260	Introductory Statistics
<b>Upper-Level Courses</b>	
PSYCH 300	Research Methods in Psychology
<b>Core Courses</b>	
<b>Physiological/Cognitive (choose one):</b>	
PSYCH 308	Physiological Psychology
PSYCH 417	Psychology of Cognitive Processes
<b>Social/Personality (choose one):</b>	
PSYCH 330	Social Psychology
PSYCH 429	Theories of Personality
<b>Culture/Gender (choose one):</b>	
PSYCH 350	Cultural Psychology
PSYCH 401	Psychology of Women and Gender
<b>Clinical/Counseling (choose one):</b>	
PSYCH 435	Psychopathology
PSYCH 438	Counseling and Psychotherapy
<b>Elective Courses (choose 12 credits - any Psychology Upper-Level course in the areas above not already taken or any of the following):</b>	
PSYCH 310	Drugs and Behavior
PSYCH 315	Social Cognitive Affective Neuroscience
PSYCH 321	Sport and Performance Psychology
PSYCH 325	Forensic Psychology
PSYCH 331	Infancy and Early Childhood Development
PSYCH 332	Middle Childhood and Adolescent Development
PSYCH 343	Adult Development and Aging
PSYCH 344	Dying, Death, and Loss
PSYCH 380	Conservation Psychology
PSYCH 415	Industrial and Organizational Psychology
PSYCH 424	Psychology of Emotion
PSYCH 440	Multicultural Counseling and Mental Health
PSYCH 443	Spirituality and Development
PSYCH 450	Health Psychology
PSYCH 483	Selected Topics
PSYCH 490	Capstone in Psychology
PSYCH 492	Applied Research Lab (max. 3 credits)
PSYCH 499	Travel Course
<b>One (or more) of the following is encouraged, but does not count toward major requirements:</b>	
PSYCH 471	Field Experience I
PSYCH 472	Field Experience II
PSYCH 478	Honors in the Major
PSYCH 495	Teaching Assistantship
PSYCH 496	Research Assistantship
PSYCH 497	Internship

PSYCH 498	Independent Study	
<b>Total Credits</b>		<b>40-42</b>

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9-10</b>
PSYCH 102	Introduction to Psychology	
PSYCH 203	Introduction to Lifespan Development	
<b>Statistics (choose one):</b>		
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Upper-Level Courses</b>		<b>12-13</b>
<b>Choose any four upper-level (300 or 400 level) psychology prefix courses</b>		
<b>Total Credits</b>		<b>21-23</b>

<sup>1</sup> Courses not used in one of the four core requirement areas may be completed as the one additional elective course.

## Curriculum Guide

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

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

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
PSYCH 102	Introduction to Psychology	3
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
HUM BIOL 102	Introduction to Human Biology	3
PSYCH 203	Introduction to Lifespan Development	3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
PSYCH 205	Social Science Statistics	4
PSYCH 3XX/4XX	Psychology Upper Level Core Course	3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
PSYCH 300	Research Methods in Psychology	4
PSYCH 3XX/4XX	Psychology Upper Level Core Course	3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>16</b>

<b>Junior</b>			
<b>Fall</b>			
PSYCH 3XX/4XX Psychology Upper Level Core Course			3
PSYCH 3XX/4XX Elective			3
Elective			3
Elective			3
Elective			3
<b>Credits</b>			<b>15</b>
<b>Spring</b>			
PSYCH/HUM DEV 3XX/4XX Psychology Upper Level Core Course			3
PSYCH 3XX/4XX Elective			3
Elective			3
Elective			3
Elective			3
<b>Credits</b>			<b>15</b>
<b>Senior</b>			
<b>Fall</b>			
PSYCH 3XX/4XX Psychology Upper Level Elective			3
PSYCH 495 or PSYCH 496 or PSYCH 497	Teaching Assistantship or Research Assistantship or Internship		3
Elective			3
Elective			3
Elective			3
<b>Credits</b>			<b>15</b>
<b>Spring</b>			
PSYCH 3XX/4XX Psychology Elective			3
PSYCH 494 Capstone in Psychology			3
PSYCH 495 or PSYCH 496 or PSYCH 497	Teaching Assistantship or Research Assistantship or Internship		3
Elective			3
Elective			3
<b>Credits</b>			<b>15</b>
<b>Total Credits</b>			<b>122</b>

## Faculty

**Jason Cowell**; Professor; Ph.D., University of Minnesota\*

**Jenell L Holstead**; Professor; Ph.D., University of Indiana\*

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

**Sawa Senzaki**; Professor; Ph.D., University of Alberta

**Christine A Smith**; Professor; Ph.D., University of Pittsburgh

**Kristin M Vespia**; Professor; Ph.D., University of Iowa

**Dean D VonDras**; Professor; Ph.D., Washington University in St. Louis

**Georjeanna J Wilson-Doenges**; Professor; Ph.D., University of California - Irvine\*

**Todd Hillhouse**; Associate Professor; Ph.D., Virginia Commonwealth University

**Elif Ikizer**; Associate Professor; Ph.D., University of Connecticut

**Joanna Morrissey**; Associate Professor; Ph.D., University of Iowa\*

**Chelsea B Wooding**; Associate Professor; Ph.D., West Virginia University\*

**Alison Diaczenko**; Assistant Professor; Ph.D., New School for Social Research

**Thomas Gretton**; Assistant Professor; Ph.D., Florida State University\*

**Abigail Nehrkorn-Bailey**; Assistant Professor; Ph.D., West Virginia University

**Stephanie Cutlan**; Assistant Teaching Professor; Ph.D., University of Memphis

**Macrae Husting**; Assistant Teaching Professor; Ph.D., University of Wisconsin - Milwaukee

## Public Administration

(Bachelor of Science)

As a broad-based, interdisciplinary, social science major, Public Administration prepares students for challenging careers in **public and nonprofit organizations** and, if desired, further study in graduate programs. Students develop proficiency in organizational management and leadership, nonprofit management, fundraising, public policy analysis, human resources, program evaluation, policy development and implementation and budgeting.

With a broad skill-set, graduates work in public, nonprofit, and commercial organizations in positions as program directors, policy analysts, nonprofit executives, budget specialists, governmental affairs directors in commercial businesses, and municipal leaders. Many pursue graduate studies in public administration, law, political science, nonprofit management, public policy, and public affairs.

All Public Administration majors engage in high impact, problem-focused, applied learning. This major excels in internships: students can choose from a wide array of **strong internship placements** in city, county and state executive offices, non-profit organizations, and emergency management settings. Students are encouraged to gain experiences through independent study, community research projects, and an other individualized work with faculty.

Students majoring in Public Administration must choose an emphasis: **Public and Nonprofit Management** or **Emergency Management**. Students who want to focus specifically on the nonprofit sector should consider earning the free-standing **Nonprofit Management Certificate**. Students pursuing an Emergency Management emphasis can obtain a free-standing **Emergency Management Certificate**, which is offered in cooperation with campus Continuing Education and Community Engagement programs.

Please seek assistance from a faculty adviser in creating your own academic plan.

### Learning Outcomes

Upon completion of a public administration major at UW-Green Bay, students will have :

- demonstrated an understanding of the process of public policy analysis and policy-making.
- developed the ability to collect, manage, evaluate, and apply data to make decisions and solve public and nonprofit problems.
- demonstrated knowledge of ethics and the importance of their application to everyday decision-making in public and nonprofit organizations and public affairs.
- demonstrated social responsibility in public service and other intentional engagement in the community.
- demonstrated core skills of public and nonprofit management including leadership, collaboration, financial management, program evaluation, and human resource management.
- applied approaches to collaborating productively with diverse individuals and groups to promote effective communities, organizations, programs, and policies.

### Considering a Double Major or a Major and a Minor?

Many Public Administration students choose to complete double majors in Political Science, Environmental Policy and Planning, Organizational Leadership or Urban Studies. A second major complements the Public Administration curriculum and makes students stronger candidates when seeking careers or entry into graduate programs.

A minor in Public Administration fits well with majors in Political Science, Economics, Communication, Environmental Policy and Planning, Urban Studies, Democracy and Justice Studies, Psychology, Social Work, and many more. Please see a faculty adviser early in your academic career for advice on these options.

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

## Major Area of Emphasis (p. 315)

Students must complete requirements in one of the following areas of emphasis: (p. 315)

- Emergency Management (p. 315)\*
- Public & Nonprofit Management (p. 315)\*



\* includes accelerated option - Integrated with graduate Master of Public Administration program

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9</b>
<b>Required:</b>		
POL SCI 101	American Government and Politics	
PUB ADM 202	Introduction to Public Policy	
PUB ADM 215	Introduction to Public and Nonprofit Service	
<b>Upper-Level Courses</b>		<b>15</b>
<b>Required (choose 3 courses):</b>		
PUB ADM 315	Public and Non-Profit Management	
PUB ADM 408	Public Policy Analysis	
PUB ADM 415	Public and Nonprofit Budgeting	
PUB ADM 428	Public and Nonprofit Program Evaluation	
<b>Electives (choose 2 courses):</b>		
ECON 453	Cost Benefit Analysis	
POL SCI 305	Urban Politics and Policy	
POL SCI 406	State and Local Government	
PUB ADM 301	Environmental Politics and Policy	
PUB ADM 306	Regulatory Policy and Administration	
PUB ADM 314	Administrative Law	
PUB ADM 315	Public and Non-Profit Management	
PUB ADM 345	Human Resource and Risk Management	
PUB ADM 408	Public Policy Analysis	
PUB ADM 415	Public and Nonprofit Budgeting	
PUB ADM 425	Marketing, Fund Development, and Grant Writing for Nonprofits	
PUB ADM 428	Public and Nonprofit Program Evaluation	
PUB ADM 497	Internship	
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> PUB ADM 497 can only be completed for 3 credits to satisfy the upper level elective requirement. A 2.75 GPA is required for internship participation.

## Curriculum Guide

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.

An example: Four year plan for **Public Administration Major**

120 credits necessary to graduate.

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

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
PUB ADM 215	Introduction to Public and Nonprofit Service	3
First Year Seminar		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
PUB ADM 202	Introduction to Public Policy	3
General Ed		3

General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
POL SCI 101	American Government and Politics	3
BUSAN 220 or PSYCH 205 or MATH 260	Introduction to Business Statistics or Social Science Statistics or Introductory Statistics	3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
PUB ADM 345	Human Resource and Risk Management	3
General Ed		3
General Ed		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
PUB ADM 315	Public and Non-Profit Management	3
Public Administration Upper Level Elective		3
Public Administration Upper Level Elective		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
PUB ADM 415	Public and Nonprofit Budgeting	3
PUB ADM 428	Public and Nonprofit Program Evaluation	3
Public Administration Upper Level Elective		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
PUB ADM 497	Internship	3
PUB ADM 408	Public Policy Analysis	3
Public Administration Upper Level Elective		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
PUB ADM 497	Internship	3
PUB ADM 430	Seminar in Ethics and Public Action	3
Public Administration Upper Level Elective		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

## Faculty

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

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

**Kerry Kuenzi**; Associate Professor; Ph.D., University of Colorado\*

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

**Bit An**; Assistant Professor; Ph.D., University of Nebraska - Omaha

# Public Administration Major

## Area of Emphasis

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

- Emergency Management<sup>\*</sup>
- Public & Nonprofit Management<sup>\*</sup>

<sup>\*</sup> includes an accelerated option - Integrated with graduate Master of Public Administration program

## Emergency Management<sup>\*</sup>

Code	Title	Credits
<b>Supporting Courses</b>		<b>12-13</b>
<b>Required:</b>		
PUB ADM 202	Introduction to Public Policy	
PUB ADM 215	Introduction to Public and Nonprofit Service	
POL SCI 101	American Government and Politics	
<b>Statistics (choose one):</b>		
PSYCH 205	Social Science Statistics	
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
<b>Upper-Level Courses</b>		
<b>Required:</b>		<b>18</b>
PUB ADM 335/535	Principles and Practices of Emergency Management <sup>#</sup>	
PUB ADM 336/536	Strategic Emergency Preparedness, Planning and Implementation <sup>#</sup>	
PUB ADM 337/537	Disaster Response Operations and Management <sup>#</sup>	
PUB ADM 338/538	Disaster Recovery <sup>#</sup>	
PUB ADM 339/539	Political and Policy Dimensions of Emergency Management <sup>#</sup>	
PUB ADM 430	Seminar in Ethics and Public Action	
<b>Electives:</b>		<b>18</b>
<b>Choose 18 credits from the following courses:</b>		
PUB ADM 306/506	Regulatory Policy and Administration <sup>#</sup>	
PUB ADM 315	Public and Non-Profit Management	
PUB ADM 322	Environmental Planning	
PUB ADM 344	Leadership in Organizations	
PUB ADM 345/545	Human Resource and Risk Management <sup>#</sup>	
PUB ADM 407/607	Service in the Public Sector <sup>#</sup>	
PUB ADM 408	Public Policy Analysis	
PUB ADM 415	Public and Nonprofit Budgeting	
PUB ADM 428/628	Public and Nonprofit Program Evaluation <sup>#</sup>	
PUB ADM 715	Community Development <sup>#</sup>	
PUB ADM 720	Nonprofit Administration and Theory <sup>#</sup>	
PUB ADM 730	Nonprofit Boards and Governance <sup>#</sup>	
PUB ADM 735	Strategic Planning <sup>#</sup>	
ECON 453	Cost Benefit Analysis	
ENV SCI 351	Web GIS and Applications	
POL SCI 406	State and Local Government	
PUB ADM 478	Honors in the Major <sup>1</sup>	
PUB ADM 495	Teaching Assistantship <sup>1</sup>	
PUB ADM 496	Project/Research Assistantship <sup>1</sup>	

PUB ADM 497	Internship	
PUB ADM 498	Independent Study <sup>1</sup>	
PUB ADM 499	Travel Course <sup>1</sup>	
<b>Total Credits</b>		<b>48-49</b>

\* includes an Accelerated option - Integrated with Master of Public Administration program

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

<sup>1</sup> Each of these courses can count once for 3 credits each as major electives.

## Public & Nonprofit Management \*

Code	Title	Credits
<b>Supporting Courses</b>		<b>12-13</b>
<b>Required:</b>		
POL SCI 101	American Government and Politics	
PUB ADM 202	Introduction to Public Policy	
PUB ADM 215	Introduction to Public and Nonprofit Service	
<b>Statistics (choose one):</b>		
PSYCH 205	Social Science Statistics	
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
<b>Upper Level Courses</b>		
<b>Required:</b>		<b>18</b>
PUB ADM 315	Public and Non-Profit Management	
PUB ADM 345/545	Human Resource and Risk Management #	
PUB ADM 408	Public Policy Analysis	
PUB ADM 415	Public and Nonprofit Budgeting	
PUB ADM 428/628	Public and Nonprofit Program Evaluation #	
PUB ADM 430	Seminar in Ethics and Public Action	
<b>Electives</b>		<b>18</b>
<b>Choose 18 credits from the following courses:</b>		
ECON 453	Cost Benefit Analysis	
ENV SCI 351	Web GIS and Applications	
ORG LEAD 348	Organizational Behavior Across Sectors	
POL SCI 305	Urban Politics and Policy	
POL SCI 316	Congress: Politics and Policy	
POL SCI 361	Immigration and Immigration Policy	
POL SCI 370	Foreign and Defense Policies	
POL SCI 406/606	State and Local Government #	
PUB ADM 301	Environmental Politics and Policy	
PUB ADM 306/506	Regulatory Policy and Administration #	
PUB ADM 314/514	Administrative Law #	
PUB ADM 322	Environmental Planning	
PUB ADM 326	Philanthropy: Civic Engagement through Giving	
PUB ADM 344	Leadership in Organizations	
PUB ADM 407/607	Service in the Public Sector #	
PUB ADM 425/625	Marketing, Fund Development, and Grant Writing for Nonprofits #	
PUB ADM 478	Honors in the Major <sup>1</sup>	
PUB ADM 495	Teaching Assistantship <sup>1</sup>	
PUB ADM 496	Project/Research Assistantship <sup>1</sup>	
PUB ADM 497	Internship	

PUB ADM 498	Independent Study <sup>1</sup>
PUB ADM 499	Travel Course <sup>1</sup>
PUB ADM 715	Community Development <sup>#</sup>
PUB ADM 720	Nonprofit Administration and Theory <sup>#</sup>
PUB ADM 730	Nonprofit Boards and Governance <sup>#</sup>
PUB ADM 735	Strategic Planning <sup>#</sup>

**Total Credits** **48-49**

\* includes an Accelerated option - Integrated with Master of Public Administration program

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

<sup>1</sup> Each of these courses can count once for 3 credits each as major electives.

## Sales

The Sales Minor at UW-Green Bay's Cofrin School of Business is designed to prepare students for success in sales-oriented roles across diverse industries. This program emphasizes the critical skills and knowledge required to navigate the complexities of the sales profession, combining theoretical understanding with practical application. Students gain a strong foundation in marketing, negotiation, sales management, and consumer behavior, which are essential for understanding market dynamics and customer interactions.

Through the program, students develop their ability to effectively communicate, negotiate, and manage customer relationships. The curriculum also offers opportunities to explore specialized areas such as business analytics, digital marketing, and data visualization, enabling students to tailor their learning experience to align with their career aspirations. These skills are invaluable in crafting persuasive pitches, resolving conflicts, and making data-driven decisions to drive sales performance.

The Sales Minor is not only a valuable complement to a business major but also enhances the career prospects of students pursuing other fields by equipping them with versatile and highly sought-after sales competencies. With a focus on practical skill development and flexibility in course selection, this program ensures graduates are well-prepared to excel in roles such as sales representative, account manager, business development associate, or customer success specialist.

By completing the Sales Minor, students position themselves as strategic thinkers and effective communicators, ready to thrive in today's competitive business landscape. This program is ideal for individuals who want to gain an edge in their careers and contribute to the success of their organizations.

## Minor

Code	Title	Credits
<b>Core Courses:</b>		<b>12</b>
MKTG 322	Principles of Marketing	
MKTG 325	Negotiation and Conflict Resolution	
MKTG 327	Selling and Sales Management	
MKTG 428	Consumer Behavior	
<b>Elective Courses (choose 2):</b>		<b>6</b>
BUSAN 452	Business Analytics	
BUSAN 464	Data Visualization and Storytelling	
COMM 102	Introduction to Communication	
MKTG 345	Digital Marketing	
<b>Total Credits</b>		<b>18</b>

## Faculty

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

**Allen Huffcutt**; Professor; Ph.D., Texas AM University\*

**Sampath Kumar**; Professor; Ph.D., University of Memphis, chair\*

**Aniruddha Pangarkar**; Associate Professor; Ph.D., Texas Tech University\*

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

**Md Tarique Newaz**; Assistant Professor; Ph.D., Texas Tech University\*

**Susan Craver**; Assistant Teaching Professor; M.B.A., University of Wisconsin - Madison

**Anup Nair**; Assistant Teaching Professor; M.B.A., Birla Institute of Technology and Science (India)

**Dylan Polkinghorne**; Assistant Teaching Professor; M.S., University of Wisconsin - Green Bay

## Social Justice

The Social Justice minor is an interdisciplinary minor that draws on history, political science, sociology and other perspectives to help students understand what makes societies equitable and fair, and how activists and other agents of change, past and present, have fought for those ideals.

Lower division courses will introduce students to the concept of social justice and open opportunities for students to explore ways to get involved in their community. Upper division courses will allow students to explore a more focused lens for social justice through perspectives such as class, gender, and sexuality.

This minor prepares students for both activist work and enhances the worldview of students who pursue many other career paths with a social justice perspective and experience with practical applications. The social justice minor pairs very well with other humanities and social science majors through which students are exploring questions of equity, justice, and democracy.

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
DJS 102	Introduction to Social Justice	
<b>Choose one (3 credits):</b>		
COMM SCI 200	Civic Scholars Practicum	
DJS 200	Mentoring for Equity and Inclusion	
DJS 204	Freedom and Social Control	
DJS 221	Law and Equality in Historical Perspective	
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
WOST 201	Introduction to LGBTQ Studies	
<b>Upper level courses</b>		<b>12</b>
DJS 470	Senior Seminar in Democracy and Justice Studies	
<b>Choose three courses (9 credits):</b>		
COMM SCI 497	Internship	
DJS 320	Constitutional Law	
DJS 330	Prison and Society	
DJS 361	Historical Perspectives on American Democracy	
DJS 363	Topics in Democracy and Justice	
HISTORY 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	
POL SCI 349	American Political Thought	
POL SCI 351	Comparative Politics	
POL SCI 361	Immigration and Immigration Policy	
WOST 350	Topics in Women's, Gender, and Sexuality Studies	
WOST 437	Feminist Theory	
<b>Total Credits</b>		<b>18</b>

## Faculty

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

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

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

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

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

## 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 interacting 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 at-risk and vulnerable groups identified in this ever-evolving field. Social workers provide direct service and work for social justice through community change activities.

The Social Work Professional Program has full accreditation from the Council on Social Work Education (CSWE). The BSW degree from UW-Green Bay allows a 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 Training Program.

Majors may elect to enroll in the behavioral health emphasis, preparing for a career in mental health and substance abuse fields.

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 by the spring application date for fall admission. Application materials and deadlines 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 and demonstrate they will have completed 48 credits by the time they begin the major. Additionally, they must have a cumulative grade point average of at least 2.5 and have completed the support course, PSYCH 203: Introduction to Life Span Development. Students are strongly encouraged to complete both WF 105 and statistics prior to entering the major. Applicants should demonstrate an interest in the profession, as indicated by the letter of reference and the essay accompanying their application.

Prospective Social Work majors should seek early advising from the Social Work Professional Advisor, Ryan Roberts. Contact him at 920-465-2679, or via email at [robertsr@uwgb.edu](mailto:robertsr@uwgb.edu) ([robertsr@uwgb.edu](mailto:robertsr@uwgb.edu)) to schedule an appointment.

## Major Area of Emphasis (p. 320)

Students must complete requirements in one of the following areas of emphasis: (p. 320)

- Behavioral Health (p. 320)
- Child Welfare (p. 320)
- General (p. 320)

## Faculty

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

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

**Stephanie Rhee**; Associate Professor; Ph.D., University of Kentucky\*

**Jolanda M Sallmann**; Associate Professor; Ph.D., University of Wisconsin - Madison\*

**Angela Baerwolf**; Assistant Professor; Ph.D., University of St. Thomas\*

**Jennifer Schanen-Materi**; Associate Teaching Professor; M.S.W., University of Wisconsin - Green Bay\*

**Corrina Heindel**; Assistant Teaching Professor; M.S.W., University of Wisconsin - Green Bay

**Heather Lawrence**; Assistant Teaching Professor; M.S.W., University of Wisconsin - Green Bay\*

**Brittany Maas**; Assistant Teaching Professor; M.S., University of Wisconsin - Green Bay\*

**Justine Terzinski**; Assistant Teaching Professor; M.S.W., University of North Dakota\*

# Social Work Major

## Area of Emphasis

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

- Behavioral Health
- Child Welfare
- General

## Behavioral Health

Code	Title	Credits
<b>Supporting Courses</b>		<b>3</b>
PSYCH 203	Introduction to Lifespan Development	
<b>Statistics (choose one course):</b>		<b>3-4</b>
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Micro-Level Systems:</b>		<b>3</b>
PSYCH 435	Psychopathology	
<b>Macro-Level Systems (choose one course):</b>		<b>2-3</b>
PSYCH 310	Drugs and Behavior	
PSYCH 330	Social Psychology	
SOC WORK 213	Human Trafficking	
SOC WORK 307	Ethics in Practice	
SOC WORK 455	First Nations Futures and Decolonizing Social Work	
<b>Diversity, Equity, Inclusion (choose one course):</b>		<b>3</b>
PSYCH 350	Cultural Psychology	
PSYCH 440	Multicultural Counseling and Mental Health	
<b>Gender Identity &amp; Sexual Orientation (choose one course):</b>		<b>3</b>
DJS 348	Gender and the Law	
FNS 360	Women and Gender in First Nations Communities	
HUM BIOL 206	Biology of Human Sexuality	
HUM BIOL 324	The Biology of Women	
HISTORY 370	History of Sexuality in the U.S.	
PSYCH 401	Psychology of Women and Gender	
SOCIOL 238	Sociological Perspectives on Gender	
SOCIOL 375	Sociology of Sexual and Intimate Relations	
SOC WORK 213	Human Trafficking	
WOST 201	Introduction to LGBTQ Studies	
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
WOST 437	Feminist Theory	
<b>Upper-Level Courses</b>		<b>41</b>
SOC WORK 301	Research Methods for Generalist Social Work Practice	
SOC WORK 305	The Social Work Profession	
SOC WORK 311	Foundations of Social Welfare Policy	
SOC WORK 313	Skills I: Professionalism & Teamwork	
SOC WORK 323	Skills II: Beginning Interviewing	
SOC WORK 371	Human Behavior and the Social Environment I	
SOC WORK 372	Human Behavior and the Social Environment II	



SOC WORK 400	Field Seminar I
SOC WORK 401	Field Seminar II
SOC WORK 402	Field Practicum I <sup>1</sup>
SOC WORK 403	Field Practicum II <sup>1</sup>
SOC WORK 411	Micro Methods I
SOC WORK 413	Skills III: Advanced Interviewing Skills
SOC WORK 421	Micro Methods II
SOC WORK 423	Skills IV: Intervention Strategies
SOC WORK 441	Macro Methods I
SOC WORK 442	Macro Methods II
SOC WORK 461	Applied Research I
SOC WORK 462	Applied Research II
<b>Required Courses for the Emphasis</b>	
SOC WORK 304	Foundations of Crisis Intervention
SOC WORK 342	Psychopharmacology
<b>Total Credits</b>	

5

63-65

## Child Welfare

As a program accredited by the Council on Social Work Education, classroom and field activities assist students in the BSW Program to attain practice competency in nine different areas with demonstration of skill and learning across the dimensions of knowledge, values, skills, and cognitive-affective integration. The competencies listed below are the learning objectives for the program.

Competency 1: Demonstrate Ethical and Professional Behavior

Competency 2: Advance Human Rights and Social, Racial, Economic, and Environmental Justice

Competency 3: Engage Anti-Racism, Diversity, Equity, and Inclusion in Practice

Competency 4: Engage In Practice-informed Research and Research-informed Practice

Competency 5: Engage in Policy Practice

Competency 6: Engage with Individuals, Families, Groups, Organizations, and Communities

Competency 7: Assess Individuals, Families, Groups, Organizations, and Communities

Competency 8: Intervene with Individuals, Families, Groups, Organizations, and Communities

Competency 9: Evaluate Practice with Individuals, Families, Groups, Organizations, and Communities

Code	Title	Credits
<b>Supporting Courses</b>		<b>3</b>
PSYCH 203	Introduction to Lifespan Development	
<b>Statistics (choose one course):</b>		<b>3-4</b>
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Micro-Level Systems:</b>		<b>3</b>
SOC WORK 375	Family Principles and Patterns	
<b>Macro-Level Systems:</b>		<b>2</b>
SOC WORK 455	First Nations Futures and Decolonizing Social Work	
<b>Diversity, Equity, Inclusion (choose one course):</b>		<b>3</b>
PSYCH 350	Cultural Psychology	
PSYCH 440	Multicultural Counseling and Mental Health	
<b>Gender Identity &amp; Sexual Orientation (choose one course):</b>		<b>3</b>
DJS 348	Gender and the Law	
FNS 360	Women and Gender in First Nations Communities	
HUM BIOL 206	Biology of Human Sexuality	

HUM BIOL 324	The Biology of Women
HISTORY 370	History of Sexuality in the U.S.
PSYCH 401	Psychology of Women and Gender
SOCIOL 238	Sociological Perspectives on Gender
SOCIOL 375	Sociology of Sexual and Intimate Relations
SOC WORK 213	Human Trafficking
WOST 201	Introduction to LGBTQ Studies
WOST 241	Introduction to Women's, Gender, and Sexuality Studies
WOST 437	Feminist Theory
<b>Upper-Level Courses</b>	
SOC WORK 301	Research Methods for Generalist Social Work Practice
SOC WORK 305	The Social Work Profession
SOC WORK 311	Foundations of Social Welfare Policy
SOC WORK 313	Skills I: Professionalism & Teamwork
SOC WORK 323	Skills II: Beginning Interviewing
SOC WORK 371	Human Behavior and the Social Environment I
SOC WORK 372	Human Behavior and the Social Environment II
SOC WORK 400	Field Seminar I
SOC WORK 401	Field Seminar II
SOC WORK 402	Field Practicum I <sup>1</sup>
SOC WORK 403	Field Practicum II <sup>1</sup>
SOC WORK 411	Micro Methods I
SOC WORK 413	Skills III: Advanced Interviewing Skills
SOC WORK 421	Micro Methods II
SOC WORK 423	Skills IV: Intervention Strategies
SOC WORK 441	Macro Methods I
SOC WORK 442	Macro Methods II
SOC WORK 461	Applied Research I
SOC WORK 462	Applied Research II
<b>Required Courses for the Emphasis</b>	
SOC WORK 351	Overview of the Child Welfare System
SOC WORK 451	Child Welfare Practice

41

6

**Total Credits**

64-65

<sup>1</sup> To qualify for the Child Welfare Emphasis, these courses must involve practicum placement in an agency that serves children and families.

## General

As a program accredited by the Council on Social Work Education, classroom and field activities assist students in the BSW Program to attain practice competency in nine different areas with demonstration of skill and learning across the dimensions of knowledge, values, skills, and cognitive-affective integration. The competencies listed below are the learning objectives for the program.

Competency 1: Demonstrate Ethical and Professional Behavior

Competency 2: Advance Human Rights and Social, Racial, Economic, and Environmental Justice

Competency 3: Engage Anti-Racism, Diversity, Equity, and Inclusion in Practice

Competency 4: Engage In Practice-informed Research and Research-informed Practice

Competency 5: Engage in Policy Practice

Competency 6: Engage with Individuals, Families, Groups, Organizations, and Communities

Competency 7: Assess Individuals, Families, Groups, Organizations, and Communities

Competency 8: Intervene with Individuals, Families, Groups, Organizations, and Communities

## Competency 9: Evaluate Practice with Individuals, Families, Groups, Organizations, and Communities

Code	Title	Credits
<b>Supporting Courses</b>		<b>3</b>
PSYCH 203	Introduction to Lifespan Development	
<b>Statistics (choose one course):</b>		<b>3-4</b>
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Micro-Level Systems (choose one course)</b>		<b>2-3</b>
FNS 224	First Nations and The Sacred	
FNS 225	Introduction to First Nations Studies	
PSYCH 331	Infancy and Early Childhood Development	
PSYCH 332	Middle Childhood and Adolescent Development	
PSYCH 343	Adult Development and Aging	
PSYCH 350	Cultural Psychology	
PSYCH 417	Psychology of Cognitive Processes	
PSYCH 435	Psychopathology	
SOC WORK 342	Psychopharmacology	
SOC WORK 375	Family Principles and Patterns	
<b>Macro-Level Systems (choose one course):</b>		<b>2-3</b>
DJS 204	Freedom and Social Control	
DJS 325	Law and Society	
FNS 385	First Nations Intellectual Traditions	
FNS 392	First Nations Justice and Tribal Governments	
GEOG 341	Urban Geography	
POL SCI 305	Urban Politics and Policy	
POL SCI 312	Community Politics	
PSYCH 310	Drugs and Behavior	
PSYCH 330	Social Psychology	
SOCIO 310	Urban Sociology	
SOCIO 357	Environmental Justice	
SOC WORK 204	Sustainability and Social Problems	
SOC WORK 213	Human Trafficking	
SOC WORK 307	Ethics in Practice	
SOC WORK 455	First Nations Futures and Decolonizing Social Work	
SOC WORK 499	Travel Course	
<b>Diversity, Equity, Inclusion (choose one course):</b>		<b>3</b>
PSYCH 350	Cultural Psychology	
PSYCH 440	Multicultural Counseling and Mental Health	
SOC WORK 455	First Nations Futures and Decolonizing Social Work	
FNS 385	First Nations Intellectual Traditions	
FNS 392	First Nations Justice and Tribal Governments	
<b>Gender Identity and Sexual Orientation (choose one course):</b>		<b>3</b>
DJS 348	Gender and the Law	
FNS 360	Women and Gender in First Nations Communities	
HUM BIOL 206	Biology of Human Sexuality	
HUM BIOL 324	The Biology of Women	
PSYCH 401	Psychology of Women and Gender	
HISTORY 370	History of Sexuality in the U.S.	
SOCIO 238	Sociological Perspectives on Gender	
SOCIO 375	Sociology of Sexual and Intimate Relations	
SOC WORK 213	Human Trafficking	

WOST 201	Introduction to LGBTQ Studies
WOST 241	Introduction to Women's, Gender, and Sexuality Studies
WOST 437	Feminist Theory
<b>Upper-Level Courses</b>	
SOC WORK 301	Research Methods for Generalist Social Work Practice
SOC WORK 305	The Social Work Profession
SOC WORK 311	Foundations of Social Welfare Policy
SOC WORK 313	Skills I: Professionalism & Teamwork
SOC WORK 323	Skills II: Beginning Interviewing
SOC WORK 371	Human Behavior and the Social Environment I
SOC WORK 372	Human Behavior and the Social Environment II
SOC WORK 400	Field Seminar I
SOC WORK 401	Field Seminar II
SOC WORK 402	Field Practicum I
SOC WORK 403	Field Practicum II
SOC WORK 411	Micro Methods I
SOC WORK 413	Skills III: Advanced Interviewing Skills
SOC WORK 421	Micro Methods II
SOC WORK 423	Skills IV: Intervention Strategies
SOC WORK 441	Macro Methods I
SOC WORK 442	Macro Methods II
SOC WORK 461	Applied Research I
SOC WORK 462	Applied Research II
<b>Total Credits</b>	

41

57-60

## Sociology & Anthropology

(Bachelor of Arts)

Sociology is the systematic study of social organization and social life. Sociologists use scientific and humanistic approaches to explain and understand social behavior and social systems. Topics include collective behavior and social movements; deviant behavior, crime and punishment; gender and human sexuality; race and ethnicity, community and urban society; and social class and status.

Anthropology is the comparative study of human diversity through time and across the world. Its scope spans the humanities, the social sciences, and the biological, physical, and evolutionary sciences. As a social science, anthropology aims at uncovering the patterns of past and present societies; from a humanistic perspective, .seeks to understand the ways cultural meaning and political power have shaped human experience.

Students in the Sociology & Anthropology program learn a variety of research methods and social theories used to study both large-scale and small-scale patterns of social relationships, as well as the processes by which these patterns change. A minor in Sociology & Anthropology will provide additional breadth of perspective for students with majors in the social sciences, arts and humanist studies, and professional programs. It also provides preparation for students going on to graduate work in programs such as anthropology, social psychology, and many professional programs.

## Major

Code	Title	Credits
<b>Supporting Courses</b>		<b>9-10</b>
ANTHRO 100	Varieties of World Culture	
SOCIOL 101	Introduction to Sociology	
<b>Statistics (choose one):</b>		
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Upper-Level Courses</b>		<b>9</b>
ANTHRO 307	Anthropological Theory	
SOCIOL 307	Social Theory	
<b>Choose one:</b>		

COMM SCI 301	Foundations for Social Research	
SOCIOL 325	Research Methods in Sociology & Anthropology	
<b>Electives <sup>1</sup></b>		<b>21</b>
ANTHRO 304	Family, Kin, and Community	
ANTHRO 306	Environmental Anthropology	
ANTHRO 314	Cultures of the World	
ANTHRO 320	Myth, Ritual, Symbol and Religion	
ANTHRO 348	Economic Anthropology	
ANTHRO 498	Independent Study	
SOCIOL 302	Social Stratification	
SOCIOL 303	Race and Ethnic Relations	
SOCIOL 304	Deviant Behavior	
SOCIOL 308	Sociology of the Family	
SOCIOL 310	Urban Sociology	
SOCIOL 311	Collective Behavior and Social Movements	
SOCIOL 315	Street Gangs in America	
SOCIOL 320	Sociology of Religion	
SOCIOL 321	Topics in Sociology	
SOCIOL 323	Asian American Communities in the United States	
SOCIOL 324	Latino Communities in the United States	
SOCIOL 330	The Sixties	
SOCIOL 335	Social Psychology: A Sociological Perspective	
SOCIOL 355	Environmental Sociology	
SOCIOL 357	Environmental Justice	
SOCIOL 375	Sociology of Sexual and Intimate Relations	
SOCIOL 404	Criminology	
SOCIOL 498	Independent Study	
Minimum 6 credits of 21 must be ANTHRO or SOCIOL		
<b>Total Credits</b>		<b>39-40</b>

<sup>1</sup> 495 Teaching Assistantship, and 499 Travel Courses are encouraged, but does not count toward the Major

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>9-10</b>
ANTHRO 100	Varieties of World Culture	
SOCIOL 101	Introduction to Sociology	
<b>Statistics (choose one):</b>		
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Upper-Level Courses</b>		<b>12</b>
<b>Choose one:</b>		
COMM SCI 301	Foundations for Social Research	
SOCIOL 325	Research Methods in Sociology & Anthropology	
<b>Choose one:</b>		
ANTHRO 307	Anthropological Theory	
SOCIOL 307	Social Theory	
<b>Elective courses (choose two):</b>		
ANTHRO 304	Family, Kin, and Community	
ANTHRO 306	Environmental Anthropology	
ANTHRO 314	Cultures of the World	

ANTHRO 320	Myth, Ritual, Symbol and Religion
ANTHRO 340	Medical Anthropology
ANTHRO 348	Economic Anthropology
ANTHRO 498	Independent Study
SOCIOL 303	Race and Ethnic Relations
SOCIOL 302	Social Stratification
SOCIOL 304	Deviant Behavior
SOCIOL 308	Sociology of the Family
SOCIOL 310	Urban Sociology
SOCIOL 311	Collective Behavior and Social Movements
SOCIOL 314	Suburbs
SOCIOL 315	Street Gangs in America
SOCIOL 320	Sociology of Religion
SOCIOL 321	Topics in Sociology
SOCIOL 323	Asian American Communities in the United States
SOCIOL 324	Latino Communities in the United States
SOCIOL 330	The Sixties
SOCIOL 335	Social Psychology: A Sociological Perspective
SOCIOL 355	Environmental Sociology
SOCIOL 357	Environmental Justice
SOCIOL 375	Sociology of Sexual and Intimate Relations
SOCIOL 404	Criminology
SOCIOL 498	Independent Study

Total Credits

21-22

## Faculty

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

**Dana Atwood**; Associate Professor; Ph.D., Western Michigan University

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

**Christopher Kleps**; Assistant Professor, Ohio State University

## Software Engineering

(Bachelor of Science)

### Software Engineering Student Outcomes:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Major

Code	Title	Credits
<b>Supporting Courses (Non-CS classes)</b>		<b>22</b>
ENGR 236	Technical Writing and Information Literacy	

MATH 202	Calculus and Analytic Geometry I
MATH 203	Calculus and Analytic Geometry II
MATH 260	Introductory Statistics
MATH 320	Linear Algebra and Matrix Theory
<b>Choose 1 from the following COMM Courses):</b>	
COMM 133	Fundamentals of Public Address
COMM 166	Fundamentals of Interpersonal Communication
COMM 237	Small Group Communication
<b>Fundamental Courses</b>	
COMP SCI 120	Web Programming
COMP SCI 130	Computer Programming I
COMP SCI 140	Programming for Quantitative Problem Solving
COMP SCI 171	Technology, Ethics, and Society
COMP SCI 181	Human-Centered Design
COMP SCI 221	Database Design & Management
COMP SCI 240	Discrete Mathematics
COMP SCI 251	Computer Systems Fundamentals
<b>Advanced Courses</b>	
COMP SCI 330	Computer Programming II
COMP SCI 348	Computer Networks
COMP SCI 351	Data Structures
COMP SCI 353	Computer Architecture and Organization
COMP SCI 450	Theory of Algorithms
COMP SCI 452	Operating Systems Using Linux
<b>Software Engineering Major Courses</b>	
SE 310	Software Engineering Fundamentals
SE 320	Software Tools and Process
SE 340	Software Requirements & Architecture
SE 350	Software Quality
SE 490	Software Engineering Capstone
SE 490	Software Engineering Capstone
<b>Upper-level Elective (choose two):</b>	
COMP SCI 361	Information Assurance and Security
COMP SCI 362	Artificial Intelligence & Data Science
COMP SCI 357	Theory of Programming Languages
COMP SCI 373	Cloud Computing
COMP SCI 392	Introduction to Mobile Computing
COMP SCI 421	Parallel & Distributed Computing
COMP SCI 451	Database Systems and Big Data Processing
COMP SCI 465	Machine Learning
COMP SCI 466	Deep Learning
COMP SCI 470	Natural Language Processing
COMP SCI 471	Software Security
COMP SCI 472	Network Security
COMP SCI 473	Digital Forensics
COMP SCI 475	Introduction to Cryptography
COMP SCI 476	Ethical Hacking
COMP SCI 497	Internship

**Total Credits****88**

## Curriculum Guide

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
COMP SCI 120	Web Programming	3
ENGR 236	Technical Writing and Information Literacy	3
COMM 133 or COMM 166 or COMM 237	Fundamentals of Public Address or Fundamentals of Interpersonal Communication or Small Group Communication	3
GenEd Course 1		3
MATH 202	Calculus and Analytic Geometry I	4
	<b>Credits</b>	<b>16</b>
<b>Spring</b>		
COMP SCI 130	Computer Programming I	3
COMP SCI 171	Technology, Ethics, and Society	3
COMP SCI 251	Computer Systems Fundamentals	3
GenEd Course 2		3
MATH 260	Introductory Statistics	4
	<b>Credits</b>	<b>16</b>
<b>Second Year</b>		
<b>Fall</b>		
COMP SCI 140	Programming for Quantitative Problem Solving	3
COMP SCI 240	Discrete Mathematics	3
COMP SCI 330	Computer Programming II	3
GenEd Course 3		3
MATH 203	Calculus and Analytic Geometry II	4
	<b>Credits</b>	<b>16</b>
<b>Spring</b>		
COMP SCI 181	Human-Centered Design	3
COMP SCI 221	Database Design & Management	3
SE 310	Software Engineering Fundamentals	3
GenEd Course 4		3
MATH 320	Linear Algebra and Matrix Theory	4
	<b>Credits</b>	<b>16</b>
<b>Third Year</b>		
<b>Fall</b>		
COMP SCI 348	Computer Networks	3
COMP SCI 353	Computer Architecture and Organization	3
COMP SCI 361	Information Assurance and Security	3
SE 320	Software Tools and Process	3
GenEd Course 5		3
	<b>Credits</b>	<b>15</b>
<b>Spring</b>		
COMP SCI 373	Cloud Computing	3
COMP SCI 450	Theory of Algorithms	3
COMP SCI 452	Operating Systems Using Linux	3
SE 340	Software Requirements & Architecture	3
SE 350	Software Quality	3
	<b>Credits</b>	<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
SE 490	Software Engineering Capstone	3
Upper-level Elective 1		3
GenEd Course 7		3
GenEd Course 8		3
Free Elective		3
	<b>Credits</b>	<b>15</b>
<b>Spring</b>		
SE 490	Software Engineering Capstone	3
Upper-level Elective 2		3
GenEd Course 9		3



GenEd Course 10	3
<b>Credits</b>	<b>12</b>
<b>Total Credits</b>	<b>121</b>

## Faculty

**Tanim Ahsan**; Associate Professor; Ph.D., Marquette University\*

**Iftekhar Anam**; Associate Professor; Ph.D., University of Memphis, chair\*

**Nazim Choudhury**; Associate Professor; Ph.D., University of Sydney\*

**Sayed Farzana Aktar**; Assistant Professor; Ph.D., Marquette University

**Prakash Duraisamy**; Assistant Professor; Ph.D., University of North Texas

**Omar Meqdadi**; Assistant Professor; Ph.D., Kent State University\*

**Md Golam Murshed**; Assistant Professor; Ph.D., Clarkson University

## 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 <https://www.uwgb.edu/international-education/>.

## 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 224 or 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.

## Major Area of Study (p. 332)

This major requires completion of one of the following areas of emphasis: (p. 332)

- Spanish and Latin American Studies (p. 332)
- Spanish and Latin American Studies for Students Seeking Teaching Certification (p. 332)

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
SPANISH 202	Intermediate Spanish Language II	
<b>Choose one:</b>		
SPANISH 224	Heritage Language and Culture	
SPANISH 225	Composition and Conversation	
<b>Upper-Level Courses</b>		<b>12</b>
<b>Required:</b>		
SPANISH 329	Representative Spanish and Latin American Authors	
<b>Choose one:</b>		
SPANISH 324	Advanced Heritage Language and Culture	
SPANISH 325	Advanced Spanish Conversation and Composition	
<b>Choose one:</b>		
SPANISH 357	Cultura Latina	
SPANISH 358	Latin America Today	
SPANISH 359	The Cultures of the Americas	
SPANISH 360	Spain Today	
SPANISH 361	The Cultures of Spain	
SPANISH 373	Spanish in the US	
SPANISH 465	Special Topics	
<b>Choose one:</b>		
SPANISH 345	Advanced Spanish Grammar	
SPANISH 351	Major Spanish and Latin American Fiction	
SPANISH 355	Spanish and Latin American Cinema	
SPANISH 357	Cultura Latina	
SPANISH 358	Latin America Today	

SPANISH 359	The Cultures of the Americas
SPANISH 360	Spain Today
SPANISH 361	The Cultures of Spain
SPANISH 372	Spanish Phonetics
SPANISH 373	Spanish in the US
SPANISH 465	Special Topics
SPANISH 499	Travel Course

**Total Credits****18**

## Curriculum Guide

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.

An example: Four year plan for **Spanish Major; Minor in Humanistic Studies**

120 credits necessary to graduate. Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
HISTORY 101 or HISTORY 103 or HUM STUD 201	Foundations of Western Culture I or World Civilizations I or Introduction to the Humanities	3
First Year Seminar		3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
HISTORY 102 or HISTORY 104	Foundations of Western Culture II or World Civilizations II	3
SPANISH 202	Intermediate Spanish Language II	3
WF 105	Research and Rhetoric	3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
SPANISH 225	Composition and Conversation	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
SPANISH 324	Advanced Heritage Language and Culture	3
SPANISH 359 or SPANISH 361	The Cultures of the Americas or The Cultures of Spain	3
Humanistic Studies Perspectives Course		3
General Ed		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
SPANISH 329	Representative Spanish and Latin American Authors	3
Spanish Elective		3
Humanistic Studies Perspectives Course		3
General Ed		3
General Ed		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
Humanistic Studies Upper Level Elective		3

Humanistic Studies or FNS Upper Level Elective		3
General Ed		3
Elective		3
Elective		3
Credits		15
Senior		
Fall		
SPANISH 345	Advanced Spanish Grammar	3
SPANISH 358 or SPANISH 360	Latin America Today or Spain Today	3
SPANISH 372	Spanish Phonetics	3
HUM STUD 480	Humanities Seminar	3
Elective		3
Credits		15
Spring		
SPANISH 438	Major Spanish and Latin American Writer(s)	3
Spanish Upper Level Elective		3
Spanish Upper Level Elective		3
General Ed		3
Elective		3
Credits		15
Total Credits		120

## Faculty

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

**Hernan Fernandez-Meardi**; Associate Professor; Ph.D., Universite de Montreal (Canada)

**Maria Yakushkina**; Assistant Professor; Ph.D., Purdue University

# Spanish and Latin American Studies Major

## Area of Emphasis

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

- Spanish and Latin American Studies
- Spanish and Latin American Studies for Students Seeking Teaching Certification

## Spanish and Latin American Studies

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
SPANISH 202	Intermediate Spanish Language II	
SPANISH 225 or SPANISH 224	Composition and Conversation Heritage Language and Culture	
<b>Upper-Level Courses</b>		<b>24</b>
SPANISH 325 or SPANISH 324	Advanced Spanish Conversation and Composition Advanced Heritage Language and Culture	
SPANISH 329	Representative Spanish and Latin American Authors	
SPANISH 345	Advanced Spanish Grammar	
SPANISH 358 or SPANISH 359	Latin America Today The Cultures of the Americas	
SPANISH 360 or SPANISH 361	Spain Today The Cultures of Spain	
SPANISH 357 or SPANISH 373 or SPANISH 465	Cultura Latina Spanish in the US Special Topics	

**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 373	Spanish in the US
SPANISH 383	Spanish in the Professions
SPANISH 438	Major Spanish and Latin American Writer(s)
SPANISH 465	Special Topics <sup>1</sup>
SPANISH 485	Study Abroad:Spain and Latin America
SPANISH 497	Internship
SPANISH 498	Independent Study

**Total Credits****30**

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

## Spanish and Latin American Studies for Students Seeking Teaching Certification

This emphasis also requires:

- Admission to the Education Program.
- Completion of the minor in Secondary Education.
- Oral and written proficiency exams successfully completed before student can be approved for student teaching (ACTFL intermediate high level) (<https://dpi.wi.gov/tepd/licensing/>).
- Student is required to spend an appropriate period of time in a country where Spanish is spoken or participate in an approved immersion program.

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
SPANISH 202	Intermediate Spanish Language II	
SPANISH 225 or SPANISH 224	Composition and Conversation Heritage Language and Culture	
<b>Upper-Level Courses</b>		<b>27</b>
EDUC 311	Teaching World Languages	
SPANISH 325 or SPANISH 324	Advanced Spanish Conversation and Composition Advanced Heritage Language and Culture	
SPANISH 329	Representative Spanish and Latin American Authors	
SPANISH 345	Advanced Spanish Grammar	
SPANISH 372	Spanish Phonetics	
SPANISH 358 or SPANISH 359	Latin America Today The Cultures of the Americas	
SPANISH 360 or SPANISH 361	Spain Today The Cultures of Spain	
SPANISH 357 or SPANISH 373 or SPANISH 465	Cultura Latina Spanish in the US Special Topics	
<b>Choose 6 credits of the following courses:</b>		
SPANISH 351	Major Spanish and Latin American Fiction	
SPANISH 355	Spanish and Latin American Cinema	
SPANISH 357	Cultura Latina	
SPANISH 373	Spanish in the US	
SPANISH 383	Spanish in the Professions	

SPANISH 465	Special Topics <sup>1</sup>
SPANISH 485	Study Abroad:Spain and Latin America
SPANISH 498	Independent Study
SPANISH 499	Travel Course

**Total Credits****33**

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

## Sustainability

Since the early years of the University of Wisconsin-Green Bay, the focus of the university has expanded and changed. However, the value of sustainability and environmental stewardship continues to be reflected in the university today, from its outdoor spaces and buildings to its academic programs, general education policies, environmentally focused student organizations, and its recently revised Select Mission statement.

Sustainability and Sustainable Development has been defined in many ways, but the most frequently quoted definition is from Our Common Future, also known as the Brundtland Report: "Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs." That report outlined 17 Sustainable Development Goals with a target date of achievement by 2030. With less than 10 years remaining for that target, our students will have an active role to play in reaching those goals.

An interdisciplinary minor in sustainability encourages students to become aware of how intersecting economic, social, and environmental problems affect the global, regional, and local communities and the necessary pathways to address those problems.

Students pursuing the minor may find the following suggested courses to be helpful.

### Suggested Supporting Courses and the General Education Requirement Satisfied:

ANTHRO 100 Varieties of World Culture (3 s.h.): Global Culture/Social Sciences)

BUS ADM 202 Introduction to Business (3 s.h.): (Social Sciences)

ECON 102 Economics of the Modern World (3 s.h.): (Social Sciences)

ECON 203 Micro Economic Analysis (3 s.h.) (Social Sciences/Quantitative Literacy)

ENV SCI 102 Introduction to Environmental Sciences (3 s.h.): (Natural Sciences)

HISTORY 220 American Environmental History (3 s.h.): (Sustainability)

POL SCI 102 Introduction to Politics (3 s.h.): (Social Sciences)

PUB ADM 202 Introduction to Public Policy (3 s.h.):(Social Sciences)

PUB ADM 215 Introduction to Public and Nonprofit Service (3 s.h.): (Social Sciences)

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
ENV SCI 389	Colloquium in Environmental Sustainability & Business	
ENV SCI 490	EMBI Co-Op/Experience	
<b>Upper-Level Requirements</b>		<b>15</b>
<b>Business Element (choose 1 course):</b>		
ECON 453	Cost Benefit Analysis	
MGMT 389	Organizational Behavior	
MKTG 322	Principles of Marketing	
SCM 384	Advanced Supply Chain Management	
<b>Public Policy Element (choose 1 course):</b>		
ECON 305	Environmental Economics	
EPP 323	Sustainable Land Use	
EPP 324	Transitioning to Sustainable Communities	
EPP 379	Natural Resources Policy, Law, and Administration	

POL SCI 378	Environmental Law
PUB ADM 301	Environmental Politics and Policy
PUB ADM 322	Environmental Planning
<b>Environmental Science Element (choose 1 course):</b>	
BIOLOGY 469	Conservation Biology
ENV SCI 303	Environmental Sustainability
ENV SCI 425	Global Climate Change
ENV SCI 460	Resource Management Strategy
ET 334	Solid Waste Management
<b>Sustainability Electives (choose 2 courses from the following list or from the above elements):</b>	
ANTHRO 306	Environmental Anthropology
ENGR 402	Smart Cities: Engineering the Future
EPP 490	EMBI Co-Op/Experience
ET 420	Lean Processes
HISTORY 326	Global Environmental History
HUM STUD 370	Sustainability through the Humanities
PSYCH 380	Conservation Psychology

**Total Credits****21**

## Faculty

John Arendt; Lecturer; M.S., University of Wisconsin - Green Bay

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

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

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

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

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

Christine L Vandenhouten; Professor; Ph.D., Marquette University\*

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

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

## Theatre and Dance

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

Theatre faculty members at UW-Green Bay believe that the best way to learn theatre is to create theatre. Students are encouraged to participate in the five mainstage (faculty or guest artist directed and designed) productions each year. Studio (student directed and designed) productions provide additional opportunities for involvement. University Theatre production work is open to all students and practicum credit is available for work on mainstage productions. The Theatre program is an active participant in the Kennedy Center's American College Theatre Festival (<http://web.kennedy-center.org/education/kcactf/Home/>), a national organization in support of excellence in university theatre.

Our facilities in Theatre Hall include the 450-seat proscenium University Theatre, Theatre 110 - Experimental Theatre & design studio, acting/ rehearsal studio, dance studio with a new sprung floor, a CAD & Sound Design lab with plotter, and well equipped scene and costume shops. Two of our Mainstage productions each year are performed in our 90-seat Jean Weidner Theatre in The Weidner Center for the Performing Arts. We periodically produce musicals and theatre for young audiences in the 2,000-seat Cofrin Family Hall of the Weidner Center.

Students receive training from working professionals and guest artists in a welcoming environment with small class sizes that assure personal attention. Opportunities afforded by the Weidner Center on campus include master classes, discounted tickets, and internship and work opportunities. Alternate Theatre, the student theatre organization, sponsors free workshops and affordable trips to regional theatres. Scholarships for incoming and returning Theatre and Dance students require application and audition or interview.

UW-Green Bay Theatre graduates pursue jobs in the entertainment industry and related fields. Students benefit greatly from internship opportunities prior to graduation and advanced course work in audition and portfolio preparation prepares them for the competitive challenges ahead.

### UW-Green Bay Theatre & Dance Mission

The UW-Green Bay Theatre and Dance program is a community of professional artists, educators and students that provides professional training in the related performing arts of Theatre, Dance and Design in the context of a broad, liberal arts education. Our program offers high impact learning practices that cultivate creativity, critical thinking, communication skills, and collaboration within and outside the program and delivers a rigorous academic and problem focused environment that seeks to produce work that **challenges the mind, engages the heart and delights the senses**.

### Core Values

#### Collaboration

Working together, we value the contribution of the individual to the collective vision of the team and strive for a cooperative and collegial realization of our artistic goals.

#### Professional Practice

We seek excellence in all our endeavors, training students to take their place as professionals. Faculty strives to remain up to date on current technologies and practices.

#### Community

We work to create engaging partnerships with our community, providing support and exchanging ideas as well as information, with our colleagues, our audience and the world at large. Students are taught to see the value of becoming engaged members of their community.

#### Diversity

Works written by and about persons of all abilities and communities, including BIPOC, LGBTQ, and other members of historically and currently marginalized communities that are under-represented or misrepresented, are studied and staged. Traditional and non-traditional UWGB students from any major or discipline are encouraged to participate in productions.

#### Discovery

As an art form, theatre seeks to explore and comprehend the human condition. We encourage and support creativity, curiosity, intellectual and aesthetic development, invention and innovation in the pursuit of understanding.

#### Academic and Creative Freedom

We believe that freedom of inquiry is essential to academic and creative pursuits and our program supports intellectual and creative activities without restriction.

#### Student Opportunities

In all areas of emphasis, we strive to provide all students with opportunities to experience live theatre and to put classroom learning into practical application.

#### Working Alumni

The application of theory and skills are core values held by the UW-Green Bay Theatre and Dance Program. Graduates of our program apply their training to careers in live performance, entertainment technology, film, television, education, arts management, scholarship, and business. UW Green Bay Theatre and Dance graduates have successfully found work with organizations that include - Steppenwolf Theatre Company, Goodman Theatre, Chicago Shakespeare Theater, Lookingglass Theatre, 5<sup>th</sup> Avenue Theatre, Seattle Repertory Theatre, Guthrie Theatre, Alley Theatre, Oregon Shakespeare Festival Theatre, Utah Shakespeare Festival, Cirque du Soleil, Peninsula Players Theatre, Door Shakespeare and Dreamworks. Our graduates are on Broadway, in national and international production and concert tours, and educational institutions around the country, providing a far-reaching network of industry professionals. UW Green Bay Theatre and Dance graduates have also had great success in creative entrepreneurship, taking their talents in new directions.

## Theatre Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>13</b>
THEATRE 131	Beginning Acting	
THEATRE 224	Introduction to Theatre Design	



THEATRE 200 or THEATRE 220	Script Analysis Stage Management	
THEATRE 221 or THEATRE 222	Stagecraft Costume Technology	
<b>Upper-Level Courses:</b>		
<b>Required:</b>		<b>3</b>
THEATRE 309 or THEATRE 310	Theatre History I: Greek to 19th Century Theatre History II: Realism to Contemporary	
<b>Production Practicum</b>		<b>2</b>
THEATRE 350	Production Practicum (repeatable)	
<b>Electives (choose 6 credits):</b>		<b>6</b>
THEATRE 302	Playwriting I	
THEATRE 321	Scene Design	
THEATRE 322	Costume Design	
THEATRE 325	Makeup for Stage, Screen and Film	
THEATRE 331	Acting III	
THEATRE 351	Directing I	
THEATRE 403	Performance Seminar	
THEATRE 404	Design Seminar	
<b>Total Credits</b>		<b>24</b>

## Dance Minor

Code	Title	Credits
<b>Core Required Courses</b>		<b>7</b>
THEATRE 128	Jazz Dance I	
THEATRE 137	Ballet I	
THEATRE 145	Modern Dance I	
THEATRE 161	Tap Dance I	
THEATRE 228	Jazz Dance II	
THEATRE 261	Tap Dance II	
<b>Upper-Level Core Required Courses</b>		<b>10</b>
THEATRE 328	Jazz Dance III	
THEATRE 336	Production Practicum: Performance (DanceWorks)	
THEATRE 340	Dance History	
THEATRE 361	Tap Dance III	
THEATRE 440	Choreography	
<b>Total Credits</b>		<b>17</b>

## Faculty

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

**Kaoime E Malloy**; Professor; M.F.A., University of Iowa, chair

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

**Alan Kopischke**; Assistant Professor; M.F.A., American Conservatory Theater

**Sera Shearer**; Assistant Teaching Professor; M.F.A., Utah State University

## Water Science

(Bachelor of Science)

### Overview of the Program

The UW-Green Bay Water Science program is an integrated program designed to provide students with the tools necessary to solve the water related challenges of today and tomorrow. Students may complete program requirements in four years. The curriculum is interdisciplinary, with a core set of courses drawn from geoscience, chemistry, environmental science, biology, physics, math, and statistics. In addition, a diverse set of elective courses allow students to focus on subdisciplines in water science that can meet their career needs and interests. The major requirements are comprised of 68 credits, which include 33 credits of supporting courses, 19 credits of upper level core courses, and 16 credits of upper level electives. The comprehensive major has a principal focus on water's role in natural processes in Earth's systems. These skills include a solid understanding of the chemistry, surface water hydrology, groundwater, and biology of freshwater systems. UW-Green Bay Water Science majors have opportunities to work as research assistants on faculty projects, develop internships, or to conduct their own independent projects. UW-Green Bay faculty members are very active in research on water and wastewater treatment, runoff pollution, stream hydrology, groundwater quantity and quality, soils, limnology, and aquatic ecology.

### Student Learning Outcomes and Program Objectives

1. Students will be able to describe the role water plays in the lithosphere, hydrosphere, cryosphere, atmosphere, and biosphere, with emphasis on interactions between these reservoirs.
2. Students will apply the scientific method to investigations of hydrologic processes, Earth systems, and interactions among the various physical and biological realms utilizing standard scientific field and laboratory methods.
3. Students will demonstrate an understanding of the hydrology of streams and lake systems and the role water has in landscape-forming processes that act on the Earth's surface.
4. Students will be able to describe the processes of and importance of groundwater flow and aquifer systems.
5. Students will be able to compare chemical interactions that occur in various hydrologic settings and their importance to water resources, geological and biological systems, and water/wastewater treatment.
6. Students will be able to describe the role water plays in atmospheric systems and the climate system.
7. Students will be able to describe the interactions between water systems and ecosystems.
8. Students will be able to describe the challenges of maintaining surface and ground water quality.
9. Students will apply their knowledge base and research skills to current issues pertaining to water resources, management, and remediation, with emphasis on related economic, social, and public policy dimensions.
10. Students will analyze, interpret, and report on laboratory and field findings using appropriate statistical techniques and computer applications.

## Major\*

Code	Title	Credits
<b>Supporting Courses</b>		<b>33</b>
BIOLOGY 203	Principles of Biology: Organisms and Evolution	
BIOLOGY 204	Principles of Biology Lab: Organisms and Evolution	
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	Principles of Chemistry II Laboratory	
GEOSCI 202	Physical Geology	
GEOSCI 222	Introduction to Weather & Climate	
MATH 260	Introductory Statistics	
WATER 201	Introduction to Water Science	
<b>Physics (choose one option):</b>		
PHYSICS 103 & PHYSICS 203	Fundamentals of Physics I and Introductory Physics Lab I	
PHYSICS 201 & PHYSICS 203	Principles of Physics I and Introductory Physics Lab I	
<b>Upper-Level Required Courses</b>		<b>19</b>
ENV SCI 335	Water and Waste Water Treatment	
ENV SCI/ET 330	Hydrology	
GEOSCI 432/632	Hydrogeology #	
WATER 444/644	Aqueous Geochemistry #	
<b>Lakes/Streams (choose one):</b>		
ENV SCI 401/601	Stream Ecology #	
ENV SCI 403/603	Limnology #	
<b>Water Resources (choose one):</b>		

ENV SCI 433/633	Ground Water: Resources and Regulations <sup>#</sup>	
<b>Elective Courses (Choose 16 credits)</b>		<b>16</b>
BIOLOGY 322	Environmental Microbiology	
BIOLOGY 341	Fish Biology and Ecology	
BIOLOGY 357	Marine Biology	
CHEM 311	Analytical Chemistry	
CHEM 413/613	Instrumental Analysis <sup>#</sup>	
ECON 305	Environmental Economics	
ENV SCI 305	Environmental Fate and Transport	
ENV SCI 320/520	The Soil Environment <sup>#</sup>	
ENV SCI 337	Environmental GIS	
ENV SCI 338	Environmental Modeling	
ENV SCI 401	Stream Ecology	
ENV SCI 403	Limnology	
ENV SCI 424/624/ET 424	Hazardous and Toxic Materials <sup>#</sup>	
ENV SCI 425/625	Global Climate Change <sup>#</sup>	
ENV SCI 433/633	Ground Water: Resources and Regulations <sup>#</sup>	
ENV SCI 491	Senior Thesis/Research in Environmental Science	
EPP 379	Natural Resources Policy, Law, and Administration	
ET 430	Sustainable Agricultural Management	
GEOSCI 325	Regional Climatology	
POL SCI 378	Environmental Law	
WATER 321	Stable Isotopes in the Environment	
WATER 410	Agriculture-Water Nexus in Wisconsin	
WATER 411	Agriculture-Water Nexus Field Experience	
WATER 491	Senior Thesis/Research in Water Science	
WATER 492	Special Topics in Water Science	
WATER 497	Internship	
WATER 498	Independent Study	
Freshwater Collaborative of Wisconsin <sup>1</sup>		
<b>Total Credits</b>		<b>68</b>

\* includes an accelerated option - Integrated with graduate Environmental Science and Policy program

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

<sup>1</sup> May use up to 8 credits of Specialty and Field Immersion Courses offered by Freshwater Collaborative of Wisconsin

## Curriculum Guide

The following is an example of a four-year Water Science program and is a representation of one possible pathway. Students are encouraged to plan ahead and check with your advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option. Because some courses are fall/spring and even/odd year basis, timing of certain courses may vary. Students are encouraged to consider a minor that pairs well with Water Science. 120 credits necessary to graduate.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
WATER 201	Introduction to Water Science	3
GEOSCI 202	Physical Geology	4
First Year Seminar		3
English Comp 100 or Gen Ed		3
Gen Ed or Math Course		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOLOGY 203	Principles of Biology: Organisms and Evolution	3

BIOLOGY 204	Principles of Biology Lab: Organisms and Evolution	1
GEOSCI 222	Introduction to Weather & Climate	3
MATH 260	Introductory Statistics	4
Gen Ed		4
<b>Credits</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
ENV SCI 330	Hydrology	3
ENV SCI 401 or ENV SCI 403	Stream Ecology or Limnology	4
Gen Ed or Elective		4
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
ENV SCI 335	Water and Waste Water Treatment	3
ENV SCI 337	Environmental GIS	3
Gen Ed or Elective		4
<b>Credits</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
ENV SCI 433	Ground Water: Resources and Regulations	3
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I or Principles of Physics I	4
PHYSICS 203	Introductory Physics Lab I	1
WATER 444	Aqueous Geochemistry	3
Elective		4
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
GEOSCI 432	Hydrogeology	3
WATER 321	Stable Isotopes in the Environment (Recommended)	1
Elective		6
Gen Ed		3
<b>Credits</b>		<b>13</b>
<b>Senior</b>		
<b>Fall</b>		
WATER 498 or WATER 497	Independent Study (Recommended) or Internship	1-4
ENV SCI 403 or ENV SCI 401	Limnology or Stream Ecology	4
Elective		4
Elective		4
<b>Credits</b>		<b>13-16</b>
<b>Spring</b>		
Electives		8
Gen Ed		6
WATER 497 or WATER 498	Internship (Recommended) or Independent Study	1-3
<b>Credits</b>		<b>15-17</b>
<b>Total Credits</b>		<b>118-123</b>

<sup>1</sup> Choose one of these two courses; check periodicity closely.

## Faculty

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

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

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

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

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

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

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

**Erin Berns-Herrboldt**; Assistant Professor; Ph.D., University of Texas

**Kpoti (Stefan) Gunn**; Assistant Professor; Ph.D., Ohio State University\*

**Christopher Houghton**; Assistant Teaching Professor; Ph.D., University of Wisconsin - Milwaukee

## Women's, Gender, and Sexuality Studies

Women's, Gender, and Sexuality Studies (WGSS) explores:

- women's past and present contributions to societies as persons, creators, and thinkers.
- the intersectional diversity--racial, economic, sexual, religious, generational—of women's, men's, and nonbinary individuals' experiences.
- scholarship exposing the structural and institutional factors that perpetuate sexism, racism, classism, heteronormativity, and transphobia.

While WGSS is a discipline in its own right, our interdisciplinary program draws upon methods and content from a wide range of programs and majors, including anthropology, literature and the arts, biology, economics, history, political science, psychology, religion, and sociology. Our minor prepares students to:

- better understand individuals, particularly but not only women, and the social structures that impact the lives of individuals.
- think critically about the intersectional issues which they will face in their lives professionally and personally.
- extend their intellectual development by helping them to understand women's accomplishments and capabilities, and by looking beyond the limits of traditional gender-differentiated roles.
- think, research, and write while using strong interdisciplinary skills.

Thus, Women's, Gender, and Sexuality Studies is an essential component of a liberal arts education.

Any student may elect Women's, Gender, and Sexuality 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 WGSS, psychology, social work, literature, and education. Graduates with WGSS minors are working in a variety of fields, including business, child and family services, education, journalism, and social service administration.

## Women's, Gender, and Sexuality Studies Program Learning Outcomes

A student who completes a Women and Gender Studies minor at UWGB will demonstrate the ability to:

- critically read, recognize, and analyze the gendered identities presented to them;
- understand how gender expectations function in culture, history, and social dynamics
- investigate how gender constructs impact their everyday lives and issues within their major or current field of study
- begin to appreciate/understand other cultures and peoples through investigation of the role that gender plays in their societies
- construct alternative ways to analyze, synthesize, and evaluate their views of their major and related fields
- initiate positive change in terms of gender definition/stereotypes
- enhance their overall general education by synthesizing the various disciplines through this minor's pedagogical approach

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
<b>Choose one:</b>		
ENGLISH 206	Women in Literature	
HUM BIOL 206	Biology of Human Sexuality	
MUSIC 272	Women in the Performing Arts	
SOC WORK 213	Human Trafficking	
SOCIOLOG 238	Sociological Perspectives on Gender	
WOST 102	Women's Voices	

WOST 198	First Year Seminar
WOST 201	Introduction to LGBTQ Studies
WOST 203	Gender in Popular Culture
WOST 247	Latin American and Latina Women
WOST 250	Introductory Topics in Women's, Gender, and Sexuality Studies
WOST 299	Travel Course

### Upper-Level Courses 12

**Choose 4 of the following courses:**

ART 379	Women, Art and Image
DJS 348	Gender and the Law
FNS 360	Women and Gender in First Nations Communities
HISTORY 370	History of Sexuality in the U.S.
HISTORY 380	U.S. Women's History
HUM BIOL 324	The Biology of Women
PSYCH 401	Psychology of Women and Gender
SOCIOL 375	Sociology of Sexual and Intimate Relations
WOST 350	Topics in Women's, Gender, and Sexuality Studies
WOST 437	Feminist Theory
WOST 497	Internship
WOST 498	Independent Study
WOST 499	Travel Course

**Total Credits 18**

## Faculty

**Kathleen C Burns**; Professor; Ph.D., University of Massachusetts

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

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

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

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

**Courtney J Sherman**; Professor; D.M.A., Arizona State University

**Christine A Smith**; Professor; Ph.D., University of Pittsburgh

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

**Dana Atwood**; Associate Professor; Ph.D., Western Michigan University

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

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

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

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

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

**Jolanda M Sallmann**; Associate Professor; Ph.D., University of Wisconsin - Madison\*

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

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

**Lisa Wicka**; Associate Professor; M.F.A., Purdue University

**Tracy Rysavy**; Associate Teaching Professor; M.A., Boston College

Erica Wiest; Assistant Teaching Professor; Ph.D., University of Wisconsin - Milwaukee

# Writing and Applied Arts

(Bachelor of Fine Arts)

## Overview

To meet industry demand for exceptional writing skills infused with creativity, UW-Green Bay offers the first and only degree of its kind in the UW-System: The Bachelor of Fine Arts in Writing and Applied Arts.

## Craft-Focused Workshops, Community-Facing Opportunities

The B.F.A. in Writing and Applied Arts is a craft-focused, community-facing program offering a range of workshops, including novel writing and revision, romance writing, poetry, world-building, creative nonfiction, environmental writing, grant writing, professional writing, placemaking, and writing for professional clients. Small class sizes (10 to 25 students) place student work at the center of discussion. Students can write and revise a novel, poetry manuscript, memoir, tabletop game narrative, or public-facing awareness campaign with mentored feedback. In addition, through its focus on Applied Arts, the B.F.A. in Writing and Applied Arts offers opportunities for students to discover and tell our region's untold stories—connecting a student's love of reading and writing to real-world problem-solving, advocacy, and change.

## The Business of Writing

As emerging professionals, B.F.A. students develop expertise transferrable to any workplace. They also gain skills in user experience, workflow, audience awareness, listening, empathy, communicating complex ideas, and critical thinking — skills ranked in the top 10 most sought-after qualities by job recruiters. In the final year of the B.F.A in Writing and Applied Arts, students engage in at least nine credit hours of hands-on expertise in areas such as small press publishing, copywriting, writing for nonprofits, podcasting, project development, journal editing, digital and social media, game writing, and marketing.

## Choose One of Four Emphases

Students choose one of four interdisciplinary emphases:

- **Community Storytelling Emphasis.** Students in the Community Storytelling Emphasis bring writing to broader communities by organizing regional events, developing community workshops, writing for social justice, and advocating to tell untold stories.
- **Editing and Publishing Emphasis.** Students in the Editing and Publishing Emphasis learn all aspects of editorial production in preparation to become copyeditors, publishers, publicists, content developers, and promotional and marketing professionals.
- **Game Writing Emphasis.** Students in the Game Writing Emphasis use skills of game craft, world-building, and choice networks to become creators of interactive experiences for tabletops, screens, historical sites, and public spaces.
- **Professional and Technical Writing Emphasis.** Students in the Professional and Technical Writing Emphasis work with clients to master the production of effective technical manuals, dynamic data visualizations and user interfaces, as well as engaging multimedia designs.

## Program Outcomes for B.F.A. Students

- Students will create, draft, and revise original works in multiple genres and forms.
- Students will analyze the techniques, construction, and production of various written expressions.
- Students will critique works by peers and published writers alike in various classroom settings, including the craft workshop.
- Students will situate their work and the works of other writers within multiple larger audiences of readers, writers, the publishing industry, and other relevant markets.
- Students will explore sources of support for storytelling projects, including their own individual projects.
- Students will engage with issues of equity, diversity, inclusion, collaboration, and ethics as they impact craft, writing, and publication in professional, classroom, and community settings
- Students will interpret, research, and evaluate works of literature and related media by placing them in historical, philosophical, psychological, intertextual, and other contexts appropriate to the discipline.
- Students will articulate their aesthetic choices using appropriate artistic and professional terms.
- Students will develop proficiency in producing, copyediting, curating, managing, and disseminating various kinds of projects in an effort to engage communities within and outside of UW-Green Bay.
- Students will use reading, writing, and editing as vehicles for their own personal, intellectual, and imaginative growth.
- Students will make, break, succeed, and fail— and in failing, practice the writer's skills of revision and resilience.

## Major Area of Emphasis (p. 344)

Students must complete requirements in one of the following areas of emphasis: (p. 344)

- Community Storytelling (p. 344)
- Editing and Publishing (p. 344)
- Game Writing (p. 344)
- Professional and Technical Writing (p. 344)

Faculty

**Roshelle Amundson**; Teaching Professor; M.F.A., Goddard College

**Paul Belanger**; Teaching Professor; Ph.D., Deakin University

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

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

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

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

**Julialicia Case**; Associate Professor; Ph.D., University of Cincinnati

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

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

**William Yazbec**; Associate Professor; Ph.D., Florida State University

**Jonas Gardsby**; Assistant Professor; Ph.D.

**Kristopher Purzycki**; Assistant Professor; Ph.D., University of Wisconsin - Milwaukee

**Tara DaPra**; Associate Teaching Professor; M.F.A., University of Minnesota

**Tracy Rysavy**; Associate Teaching Professor; M.A., Boston College

**Albert Sears**; Associate Teaching Professor; Ph.D., Lehigh University

**Zack Kruse**; Assistant Teaching Professor; Ph.D., Michigan State University

**Erica Wiest**; Assistant Teaching Professor; Ph.D., University of Wisconsin - Milwaukee

Writing and Applied Arts Major

Area of Emphasis

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

- Community Storytelling
- Editing and Publishing
- Game Writing
- Professional and Technical Writing

Community Storytelling

Code	Title	Credits
Supporting Courses		21
Required		
ENGLISH 200	Arts Entrepreneurship	
ENGLISH 201	Ethics in Writing	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 226	Grammar	
ENGLISH 227	Copyediting and Workflow	
ENGLISH 290	Literary Studies	
Arts in Society (choose one):		



ARTS MGT 257	Arts in the Community
COMM 102	Introduction to Communication
COMM 166	Fundamentals of Interpersonal Communication
DESIGN 131	Introduction to Design and Culture
FNS 210	American Indians In Film
FNS 225	Introduction to First Nations Studies
HUM STUD 110	Introduction to Film
HUM STUD 200	Finding Humanity in the Digital World
HUM STUD 210	Film and Society
THEATRE 200	Script Analysis

**Upper-Level Courses****36-38****Required Intermediate Writing Course**

ENGLISH 301	Intermediate Creative Writing
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**Required Craft Workshop**

ENGLISH 309	Co-Creative Writing Workshop
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**Other Craft Workshops (choose 6-8 credits):**

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 307	Writing the Environment Workshop
ENGLISH 310	Topics in Game Writing
ENGLISH 312	Topics in Creative Writing
ENGLISH 314	Topics in Professional & Technical Writing

**Upper-Level Skills Courses (choose two):**

ENGLISH 327	Digital Platforms for Publishing
ENGLISH 328	UX Writing
ENGLISH 329	Placemaking and Writing

**Historical Context**

ENGLISH 326	Topics in Publishing
or ENGLISH 340	History of the English Language

**Upper-Level Literature Courses (choose two): <sup>1</sup>**

ENGLISH 315	The British Novel
ENGLISH 320	Major Drama
ENGLISH 322	Major Poetry
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 345	LGBTQ Literature
ENGLISH 364	Literary Topics
ENGLISH 431	Shakespeare
ENGLISH 436	Major Author(s)
ENGLISH 499	Travel Course

**Applied Arts: Applied Arts credits should be distributed as follows: 3 cr. Practicum; 3 cr. Internship; remaining 3 cr. either Practicum or Internship**

**Practicum courses (3-6 credits; each course is repeatable for credit)**

ENGLISH 224	Practicum in Literary Publishing
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ENGLISH 324	Sheepshead Review Practicum
ENGLISH 410	Live Video Streaming Practicum
ENGLISH 424	Book Editing Practicum
ENGLISH 428	Practicum in Community Engaged Writing
<b>Internship in Community Storytelling Area of Emphasis (3-6 credits)</b>	

**Total Credits****57-59**

1. Historical Literary Context courses not used to fulfil that requirement may be used as a Literature elective.

## Editing and Publishing

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
<b>Required</b>		
ENGLISH 201	Ethics in Writing	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 226	Grammar	
ENGLISH 227	Copyediting and Workflow	
ENGLISH 290	Literary Studies	
<b>Choose one:</b>		
ENGLISH 200	Arts Entrepreneurship	
ENGLISH 228	Introduction to Technical and Professional Writing	
<b>Arts in Society (choose one):</b>		
ARTS MGT 257	Arts in the Community	
COMM 102	Introduction to Communication	
COMM 166	Fundamentals of Interpersonal Communication	
DESIGN 131	Introduction to Design and Culture	
HUM STUD 200	Finding Humanity in the Digital World	
THEATRE 200	Script Analysis	
<b>Upper-Level Courses</b>		<b>36-38</b>
<b>Required Intermediate Writing Course</b>		
ENGLISH 301	Intermediate Creative Writing	
<b>Craft Workshops (choose 9-11 credits):</b>		
ENGLISH 302	Short Fiction Writing Workshop	
ENGLISH 303	Advanced Poetry Writing Workshop	
ENGLISH 304	Creative Nonfiction Writing	
ENGLISH 305	Novel Writing Workshop	
ENGLISH 306	Novel Revision Workshop	
ENGLISH 307	Writing the Environment Workshop	
ENGLISH 309	Co-Creative Writing Workshop	
ENGLISH 310	Topics in Game Writing	
ENGLISH 312	Topics in Creative Writing	
ENGLISH 314	Topics in Professional & Technical Writing	
<b>Upper-Level Skills Courses (choose two):</b>		
ENGLISH 327	Digital Platforms for Publishing	
ENGLISH 328	UX Writing	
ENGLISH 329	Placemaking and Writing	
<b>Historical Context</b>		
ENGLISH 326	Topics in Publishing	
or ENGLISH 340	History of the English Language	
<b>Upper-Level Literature Courses (choose two): <sup>1</sup></b>		
ENGLISH 315	The British Novel	
ENGLISH 320	Major Drama	

ENGLISH 322	Major Poetry
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 345	LGBTQ Literature
ENGLISH 364	Literary Topics
ENGLISH 431	Shakespeare
ENGLISH 436	Major Author(s)
<b>Applied Arts: Applied Arts credits should be distributed as follows: 3 cr. Practicum; 3 cr. Internship; remaining 3 cr. either Practicum or Internship</b>	
<b>Required Practicum course in Publishing (choose at least one course; all are repeatable twice for credit)</b>	
ENGLISH 224	Practicum in Literary Publishing
ENGLISH 324	Sheepshead Review Practicum
ENGLISH 424	Book Editing Practicum
<b>Other Practicum Courses</b>	
ENGLISH 410	Live Video Streaming Practicum
ENGLISH 428	Practicum in Community Engaged Writing
<b>Internship in Editing and Publishing Area of Emphasis (3-6 credits)</b>	

**Total Credits****57-59**

1. Historical Literary Context courses not used to fulfil that requirement may be used as a Literature elective.

## Game Writing

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
<b>Required</b>		
ENGLISH 201	Ethics in Writing	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 226	Grammar	
ENGLISH 227	Copyediting and Workflow	
ENGLISH 290	Literary Studies	
COMP SCI 201	Introduction to Computing & Internet Technologies	
<b>Arts in Society (choose one):</b>		
COMM 102	Introduction to Communication	
COMM 166	Fundamentals of Interpersonal Communication	
DESIGN 131	Introduction to Design and Culture	
MUSIC 120	Video Game Music	
<b>Upper-Level Courses</b>		<b>36-38</b>
<b>Required Intermediate Writing Course</b>		
ENGLISH 301	Intermediate Creative Writing	
<b>Craft Workshops (three courses)</b>		
<b>Required Craft Workshop (repeatable twice for credit)</b>		
ENGLISH 310	Topics in Game Writing	
<b>Other Craft Workshops (choose up to two other courses):</b>		
ENGLISH 302	Short Fiction Writing Workshop	
ENGLISH 303	Advanced Poetry Writing Workshop	
ENGLISH 304	Creative Nonfiction Writing	
ENGLISH 305	Novel Writing Workshop	
ENGLISH 306	Novel Revision Workshop	

ENGLISH 307	Writing the Environment Workshop
ENGLISH 309	Co-Creative Writing Workshop
ENGLISH 312	Topics in Creative Writing
ENGLISH 314	Topics in Professional & Technical Writing
<b>Upper-Level Skills Courses (choose two):</b>	
ENGLISH 327	Digital Platforms for Publishing
ENGLISH 328	UX Writing
ENGLISH 329	Placemaking and Writing
<b>Historical Context</b>	
ENGLISH 326	Topics in Publishing
or ENGLISH 340	History of the English Language
<b>Upper-Level Literature Courses (choose two):</b>	
ENGLISH 315	The British Novel
ENGLISH 320	Major Drama
ENGLISH 322	Major Poetry
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 345	LGBTQ Literature
ENGLISH 364	Literary Topics
ENGLISH 431	Shakespeare
ENGLISH 436	Major Author(s)
ENGLISH 499	Travel Course
<b>Applied Arts: Applied Arts credits should be distributed as follows: 3 cr. Practicum; 3 cr. Internship; remaining 3 cr. either Practicum or Internship</b>	
<b>Required Practicum Course (repeatable twice for credit)</b>	
ENGLISH 410	Live Video Streaming Practicum
<b>Other Practicum Courses</b>	
ENGLISH 224	Practicum in Literary Publishing
ENGLISH 324	Sheepshead Review Practicum
ENGLISH 424	Book Editing Practicum
ENGLISH 428	Practicum in Community Engaged Writing
<b>Internship in Game Writing Area of Emphasis (3-6 credits)</b>	
<b>Total Credits</b>	

57-59

## Professional and Technical Writing

Code	Title	Credits
<b>Supporting Courses</b>		<b>21</b>
ENGLISH 201	Ethics in Writing	
ENGLISH 212	Introduction to Creative Writing	
ENGLISH 226	Grammar	
ENGLISH 227	Copyediting and Workflow	
ENGLISH 228	Introduction to Technical and Professional Writing	
ENGLISH 290	Literary Studies	
<b>Arts in Society (choose one):</b>		
ARTS MGT 257	Arts in the Community	
COMM 102	Introduction to Communication	
COMM 166	Fundamentals of Interpersonal Communication	

DESIGN 131	Introduction to Design and Culture
HUM STUD 200	Finding Humanity in the Digital World
<b>Upper-Level Courses</b>	
<b>Required Intermediate Writing Course</b>	
ENGLISH 327	Digital Platforms for Publishing
<b>Required Craft Workshop (repeatable twice for credit)</b>	
ENGLISH 314	Topics in Professional & Technical Writing
<b>Other Craft Workshops (choose up to two other courses):</b>	
ENGLISH 302	Short Fiction Writing Workshop
ENGLISH 303	Advanced Poetry Writing Workshop
ENGLISH 304	Creative Nonfiction Writing
ENGLISH 305	Novel Writing Workshop
ENGLISH 306	Novel Revision Workshop
ENGLISH 307	Writing the Environment Workshop
ENGLISH 309	Co-Creative Writing Workshop
ENGLISH 310	Topics in Game Writing
ENGLISH 312	Topics in Creative Writing
<b>Upper-Level Skills Courses</b>	
ENGLISH 328	UX Writing
ENGLISH 329	Placemaking and Writing
<b>Historical Context</b>	
ENGLISH 326	Topics in Publishing
or ENGLISH 340	History of the English Language
<b>Upper-Level Literature Courses (choose two):</b>	
ENGLISH 315	The British Novel
ENGLISH 320	Major Drama
ENGLISH 322	Major Poetry
ENGLISH 326	Topics in Publishing <sup>1</sup>
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 <sup>1</sup>
ENGLISH 344	African American Literature
ENGLISH 345	LGBTQ Literature
ENGLISH 364	Literary Topics
ENGLISH 431	Shakespeare
ENGLISH 436	Major Author(s)
ENGLISH 499	Travel Course
<b>Applied Arts: Applied Arts credits should be distributed as follows: 3 cr. Practicum; 3 cr. Internship; remaining 3 cr. either Practicum or Internship</b>	
<b>Required Practicum Course (repeatable twice for credit)</b>	
ENGLISH 428	Practicum in Community Engaged Writing
<b>Other Practicum Courses</b>	
ENGLISH 224	Practicum in Literary Publishing
ENGLISH 324	Sheepshead Review Practicum
ENGLISH 410	Live Video Streaming Practicum
ENGLISH 424	Book Editing Practicum
<b>Internship in Professional and Technical Writing Area of Emphasis (3-6 credits)</b>	
<b>Total Credits</b>	

1. Historical Literary Context courses not used to fulfill that requirement may be used as a Literature elective.

## 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.

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## S

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- Software Engineering (p. 326)
- Spanish and Latin American Studies (p. 329)
- Sustainability (p. 334)

## T

- Theatre and Dance (p. 335)

## W

- Water Science (p. 337)
- Women's, Gender, and Sexuality Studies (p. 341)
- Writing and Applied Arts (p. 343)

## 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. 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.

There are three tracks for accounting majors that reflect the professional certification options. Those students planning on sitting for the CPA exam should select either the Business Analysis and Reporting emphasis or the Tax Compliance and Planning emphasis. All the accounting emphases offer 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. Those wishing to pursue the Master's of Science in Management can apply for the accelerated program. Students selecting the accelerated program will complete nine credits of graduate-level classes that are geared toward students interested in the application of analytics in the accounting profession. These courses are offered to the students at the tuition for undergraduate courses and will apply toward their bachelor's degree. After completing the bachelor's degree (approximately 120 credits), students selecting the accelerated program may complete the Master's Degree in Management by taking an additional 22 credits.

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 add an Accounting major or minor at any time with any number of credits through a simple online process. Students should contact their Professional Advisor listed under the Program Advisors on the right-hand side of SIS to start the process. Students will be required to read and accept an Honor Code (pre-declaration form). For students adding a major offered in the Cofrin School of Business, a faculty mentor who specializes in their program will be listed under their Program Advisors in SIS.

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

The accounting major prepares students to sit for a professional certification of the CPA, CMA or both. The certification exam process is rigorous and includes a proctored closed note exam. In order to prepare our students, this program uses proctoring software or may require proctors for certain online courses. Various proctors are acceptable including HR departments, local libraries and more. Details will be provided in specific courses.

### \*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 advisor assists each student in determining which option best meets his or her interests.

### Major Area of Emphasis (p. 353)

Students must complete requirements in one of the following areas of emphasis: (p. 353)



- Business Analysis and Reporting (p. 353)<sup>\*</sup>
- Managerial Accounting (p. 353)<sup>\*</sup>
- Tax Compliance (p. 353)<sup>\*</sup>

\* includes an Accelerated option - Integrated with graduate Management program

## Minor

Code	Title	Credits
<b>Supporting Courses</b>		<b>6</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
<b>Upper-Level Courses <sup>1</sup></b>		<b>15-18</b>
ACCTG 301	Intermediate Accounting I	
ACCTG 410	Introduction to Income Tax Theory and Practice	
<b>Choose three of the following courses:</b>		
ACCTG 313	Intermediate Accounting II	
ACCTG 314	Advanced Accounting	
ACCTG 316	Governmental and Nonprofit Accounting	
ACCTG 323	Intermediate Accounting III	
ACCTG 411	Accounting Information Systems	
ACCTG 412	Auditing Standards and Procedures	
ACCTG 414	Cost Accounting	
ACCTG 415	Advanced Income Tax Theory and Practice	
ACCTG 452	Accounting Data Analytics	
<b>Total Credits</b>		<b>21-24</b>

<sup>1</sup> Students must earn BC or better in ACCTG 201, ACCTG 202, and ACCTG 301 in order to take upper-level courses in Accounting.

## Faculty

**Rasoul Rezvanian**; Professor; Ph.D., Southern Illinois University

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

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

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

**Zhuoli Axelton**; Assistant Professor; Ph.D., Washington State University

**Preston Cherry**; Assistant Professor; Ph.D., Texas Tech University

**Heather Kaminski**; Assistant Professor; D.B.A., Anderson University

**Eu Jin Kwak**; Assistant Professor; Ph.D., University of Georgia\*

**Grace (Fangjun) Sang**; Assistant Professor; Ph.D., Kent State

**Kevin Jaklin**; Assistant Teaching Professor; M.B.A., University of Wisconsin - Oshkosh, chair

## Accounting Major

### Major Area of Emphasis

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

- Business Analysis and Reporting<sup>\*</sup>
- Managerial Accounting<sup>\*</sup>
- Tax Compliance<sup>\*</sup>

\* includes an Accelerated option - Integrated with graduate Management program

## Business Analysis and Reporting<sup>\*</sup>

Code	Title	Credits
<b>Supporting Courses</b>		<b>27-28</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
PHILOS 227	Business Ethics	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics:</b>		
BUSAN 220 or MATH 260	Introduction to Business Statistics Introductory Statistics	
<b>Upper-Level Foundational Courses</b>		<b>36</b>
<b>Core Courses</b>		
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Principles of Marketing	
<b>Accounting Major Courses<sup>1</sup></b>		
ACCTG 301	Intermediate Accounting I	
ACCTG 313	Intermediate Accounting II	
ACCTG 323	Intermediate Accounting III	
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 452	Accounting Data Analytics	
<b>BAR Emphasis</b>		<b>9</b>
ACCTG 314	Advanced Accounting	
ACCTG 316	Governmental and Nonprofit Accounting	
BUS ADM 306	Business Law	
<b>Accelerated - Graduate Courses<sup>#</sup></b>		<b>0-9</b>
BUSAN 570	Data Science for Managers	
BUSAN 635	Foundations of Strategic Information Management	
FIN 646	Advanced Corporation Finance	
<b>Capstone Experience: one of two</b>		<b>3</b>
MGMT 482	Capstone in Business Strategy	
ACCTG 460	Accounting Capstone	
<b>Total Credits</b>		<b>75-85</b>

\* includes an Accelerated option - Integrated with graduate Management program

<sup>1</sup> Students must earn BC or better in ACCTG 201, ACCTG 202, and ACCTG 301 in order to take upper-level courses in Accounting.

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

## Managerial Accounting \*

Code	Title	Credits
<b>Supporting Courses</b>		<b>27-28</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
PHILOS 227	Business Ethics	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics:</b>		
BUSAN 220 or MATH 260	Introduction to Business Statistics Introductory Statistics	
<b>Upper-Level Foundational Courses</b>		<b>39</b>
<b>Core Courses</b>		
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Principles of Marketing	
<b>Accounting Major Courses <sup>1</sup></b>		
ACCTG 301	Intermediate Accounting I	
ACCTG 313	Intermediate Accounting II	
ACCTG 323	Intermediate Accounting III	
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 452	Accounting Data Analytics	
<b>Accounting Major Electives</b>		<b>6</b>
<b>CMA emphasis:</b>		
FIN 446	Advanced Corporation Finance	
SCM 380	Project Management	
<b>Accelerated - Graduate Courses <sup>#</sup></b>		<b>0-9</b>
BUSAN 570	Data Science for Managers	
BUSAN 635	Foundations of Strategic Information Management	
FIN 646	Advanced Corporation Finance	
<b>Capstone Experience: one of two</b>		<b>3</b>
MGMT 482	Capstone in Business Strategy	
ACCTG 460	Accounting Capstone	
<b>Total Credits</b>		<b>75-85</b>

\* includes an Accelerated option - Integrated with graduate Management program

<sup>1</sup> Students must earn BC or better in ACCTG 201, ACCTG 202, and ACCTG 301 in order to take upper-level courses in Accounting.

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

## Tax Compliance\*

Code	Title	Credits
<b>Supporting Courses</b>		<b>27-28</b>
ACCTG 201	Principles of Financial Accounting	
ACCTG 202	Principles of Managerial Accounting	
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
BUSAN 230	Spreadsheet and Information Systems	
PHILOS 227	Business Ethics	
<b>Economics (choose one combination):</b>		
ECON 202 & ECON 203	Macro Economic Analysis and Micro Economic Analysis	
ECON 208 & ECON 209	Economics WTCS Bridge and WTCS Transfer Credit	
<b>Statistics:</b>		
BUSAN 220 or MATH 260	Introduction to Business Statistics Introductory Statistics	
<b>Upper-Level Foundational Courses</b>		<b>39</b>
<b>Core Courses</b>		
BUS ADM 305	Legal Environment of Business	
FIN 343	Corporation Finance	
MGMT 389	Organizational Behavior	
MKTG 322	Principles of Marketing	
<b>Accounting Major Courses <sup>1</sup></b>		
ACCTG 301	Intermediate Accounting I	
ACCTG 313	Intermediate Accounting II	
ACCTG 323	Intermediate Accounting III	
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 452	Accounting Data Analytics	
<b>Tax Compliance &amp; Planning Emphasis:</b>		<b>9</b>
ACCTG 415	Advanced Income Tax Theory and Practice	
BUS ADM 306	Business Law	
FIN 415	Employee Benefits and Retirement Planning	
or FIN 425	Estate and Trust Planning	
or ACCTG 413	Income Tax Practicum (VITA)	
<b>Accelerated - Graduate Courses <sup>#</sup></b>		<b>0-9</b>
BUSAN 570	Data Science for Managers	
BUSAN 635	Foundations of Strategic Information Management	
FIN 646	Advanced Corporation Finance	
<b>Capstone Experience: one of two</b>		<b>3</b>
MGMT 482	Capstone in Business Strategy	
or ACCTG 460	Accounting Capstone	
<b>Total Credits</b>		<b>78-88</b>

\* includes an Accelerated option - Integrated with graduate Management program

<sup>1</sup> Students must earn BC or better in ACCTG 201, ACCTG 202, and ACCTG 301 in order to take upper-level courses in Accounting.

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

## Advertising

The Advertising Minor is an interdisciplinary program designed to prepare students for careers in one of the most dynamic and fast-paced industries of the 21st century. By integrating courses in Marketing, Communication, and Design, this minor provides students with a comprehensive foundation in advertising strategy, creative content development, and digital marketing.

The program emphasizes both the theoretical principles and practical skills necessary for success in the modern advertising landscape. Students will explore how to analyze market trends, develop brand messaging, and craft engaging content for diverse audiences across traditional and digital platforms. With an emphasis on creativity and collaboration, the minor also provides opportunities to explore visual storytelling and content publishing.

Through hands-on projects, students will gain experience applying advertising concepts to real-world scenarios, building the skills and confidence to succeed in professional environments.

The program is an excellent complement to majors in Communication, Business Administration, Design Arts, and more, offering students the flexibility to tailor their learning to their career goals.

### Learning Outcomes:

Upon completion of the minor, students will be able to

1. Understand Key Advertising Principles and Industry Trends: Students will learn foundational principles of advertising and current industry trends, developing skills to effectively target audiences and promote brands across various channels.
2. Apply Design Thinking and Visual Communication Skills: Through coursework in design and culture, students will develop an appreciation for design's role in advertising and build basic skills in visual storytelling and brand aesthetics.
3. Develop Competency in Digital Marketing and Social Media Strategy: Students will explore digital marketing fundamentals and social media analytics, enabling them to create, analyze, and adapt marketing campaigns to engage audiences in digital spaces.
4. Integrate Marketing Research and Analytics in Campaign Development: Courses in digital marketing and social media analytics will equip students to interpret and leverage marketing data for strategic decision-making and campaign optimization.
5. Create Engaging Content for Diverse Digital Platforms: Students will gain hands-on experience creating social media and digital content, understanding the nuances of different platforms and learning to produce content that aligns with brand messaging.
6. Apply Advertising and Marketing Principles in Real-world Scenarios: Through applied projects, students will combine marketing, design, and content creation skills to build comprehensive advertising strategies that reflect industry standards.
7. Critically Analyze Media and Advertising from a Cultural Perspective: Courses on mass media and advertising will foster critical thinking about the cultural impact of advertising and media, helping students understand advertising's broader societal implications.
8. Demonstrate Effective Communication and Collaboration Skills: Emphasizing teamwork and communication, the program will prepare students to work effectively in collaborative advertising and marketing environments.

### Minor

Code	Title	Credits
<b>Required Courses:</b>		<b>9</b>
COMM 309	Mass Media Advertising	
MKTG 322	Principles of Marketing	
MKTG 423	Advertising	
<b>Elective Courses (choose 3 courses):</b>		<b>9</b>
COMM 317	How to Create Great Social Media Content	
DESIGN 131	Introduction to Design and Culture	
MKTG 345	Digital Marketing	
MKTG 447	Social Media Marketing and Analytics	
<b>Total Credits</b>		<b>18</b>

### Faculty

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

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

**Sampath Kumar**; Professor; Ph.D., University of Memphis\*

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

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

**Md Tarique Newaz**; Assistant Professor; Ph.D., Texas Tech University\*

**Kristopher Purzycki**; Assistant Professor; Ph.D., University of Wisconsin - Milwaukee

**Anup Nair**; Assistant Teaching Professor; M.B.A., Birla Institute of Technology and Science (India)

## Art Major

### Area of Emphasis

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

- Art Education
- Pre-Art Therapy
- Studio Art

### Art Education

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

Code	Title	Credits
<b>Supporting Courses</b>		<b>43</b>
<b>Art History</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	
or ART 103	History of the Visual Arts II: Renaissance to Modern	
ART 202	Modern Art	
ART 203	Contemporary Art	
<b>Design Core</b>		
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
<b>Two-Dimensional Studios</b>		
ART 210	Introduction to Painting	
ART 243	Introduction to Photography	
ART 270	Introduction to Printmaking	
<b>Three-Dimensional Studios</b>		
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 235	Introduction to Woodworking and Furniture Design	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
<b>Upper-Level Courses</b>		<b>24</b>
<b>Required Courses</b>		
<b>Drawing (choose one of the following courses):</b>		
ART 302	Intermediate Drawing	
or ART 304	Figure Drawing	
<b>Art History (choose two of the following courses):</b>		
ART 376	Modern American Culture	

ART 379	Women, Art and Image
ART 380	History of Photography
ART 381	Art of the First Nations
ART 382	Precolumbian Art of Mesoamerica
ART 383	African Art
ART 384	Asian Art
<b>Choose 15 credits of Studio Art courses <sup>1</sup></b>	

**Total Credits****67**

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

## Pre-Art Therapy

Code	Title	Credits
<b>Supporting Courses</b>		<b>31</b>
<b>Art History:</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	
or ART 103	History of the Visual Arts II: Renaissance to Modern	
ART 202	Modern Art	
ART 203	Contemporary Art	
<b>Design Core:</b>		
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
<b>Two-dimensional studios (choose 2 for total 6 credits):</b>		
ART 210	Introduction to Painting	
ART 243	Introduction to Photography	
ART 270	Introduction to Printmaking	
<b>Three-dimensional studios (choose 2 for total 6 credits):</b>		
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 235	Introduction to Woodworking and Furniture Design	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
<b>Supporting Psychology Courses:</b>		<b>6-7</b>
PSYCH 102	Introduction to Psychology	
or PSYCH 203	Introduction to Lifespan Development	
<b>Choose one Statistics course:</b>		
PSYCH 205	Social Science Statistics	
MATH 260	Introductory Statistics	
BUSAN 220	Introduction to Business Statistics	
<b>Upper-Level Courses</b>		<b>9</b>
ART 302	Intermediate Drawing	
or ART 304	Figure Drawing	
<b>Choose two courses:</b>		
ART 376	Modern American Culture	
ART 379	Women, Art and Image	
ART 380	History of Photography	
ART 381	Art of the First Nations	
ART 382	Precolumbian Art of Mesoamerica	
ART 383	African Art	

ART 384	Asian Art	
<b>Upper-Level Art Studio Courses:</b>		<b>9</b>
<b>Complete any 9 credits from Upper-Level Studio list including one 400-level course.</b>		
ART 304	Figure Drawing	
ART 402	Advanced Drawing	
<b>Painting:</b>		
ART 309	Intermediate Painting: Oil Painting	
ART 310	Intermediate Painting: Media Exploration	
ART 311	Intermediate Painting: Contemporary Approaches	
ART 410	Advanced Painting	
<b>Photography:</b>		
ART 343	Photography II	
ART 344	Photography III	
ART 443	Advanced Problems in Photography	
<b>Printmaking:</b>		
ART 373	Intermediate Printmaking	
ART 375	Screen Printing	
ART 470	Advanced Printmaking	
<b>Sculpture:</b>		
ART 321	Intermediate Sculpture	
ART 421	Advanced Sculpture	
<b>Ceramics:</b>		
ART 331	Intermediate Ceramics	
ART 431	Advanced Ceramics	
<b>Textiles:</b>		
ART 355	Intermediate Fibers/Textiles	
ART 453	Advanced Fibers/Textiles	
<b>Jewelry/Metals:</b>		
ART 364	Intermediate Jewelry/Metals	
ART 463	Advanced Jewelry/Metals	
ART 497	Internship (up to 3 credits)	
ART 498	Independent Study (up to 3 credits)	
ART 499	Travel Course (up to 3 credits)	
<b>Woodworking &amp; Furniture Design:</b>		
ART 335	Intermediate Woodworking & Furniture Design	
ART 435	Advanced Woodworking & Furniture Design	
<b>Upper-Level Psychology Courses:</b>		<b>13</b>
PSYCH 300	Research Methods in Psychology	
PSYCH 438	Counseling and Psychotherapy	
<b>Choose 6 credits of PSYCH electives</b>		
PSYCH 305	Psychology of Stereotyping and Prejudice	
PSYCH 350	Cultural Psychology	
PSYCH 401	Psychology of Women and Gender	
PSYCH 417	Psychology of Cognitive Processes	
PSYCH 429	Theories of Personality	
PSYCH 435	Psychopathology	
PSYCH 440	Multicultural Counseling and Mental Health	
PSYCH 460	Clinical Child Psychology	
PSYCH 497	Internship	
<b>Total Credits</b>		<b>68-69</b>



## Studio Art

Code	Title	Credits
<b>Supporting Courses</b>		<b>31</b>
<b>Art History</b>		
ART 102	History of the Visual Arts: Ancient to Medieval	
or ART 103	History of the Visual Arts II: Renaissance to Modern	
ART 202	Modern Art	
ART 203	Contemporary Art	
<b>Design Core</b>		
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
<b>Two-Dimensional Studios (choose 6 credits):</b>		
ART 210	Introduction to Painting	
ART 243	Introduction to Photography	
ART 270	Introduction to Printmaking	
<b>Three-Dimensional Studios (choose 6 credits):</b>		
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 235	Introduction to Woodworking and Furniture Design	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
<b>Upper-Level Core Courses</b>		<b>24</b>
<b>Required Core Courses</b>		
ART 302	Intermediate Drawing	
or ART 304	Figure Drawing	
<b>Art History (choose two of the following courses):</b>		
ART 376	Modern American Culture	
ART 379	Women, Art and Image	
ART 380	History of Photography	
ART 381	Art of the First Nations	
ART 382	Precolumbian Art of Mesoamerica	
ART 383	African Art	
ART 384	Asian Art	
<b>Upper-Level Studio Art Emphasis Courses (15 credits) <sup>1</sup></b>		
<b>Total Credits</b>		<b>55</b>

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

## Art Minor

### Area of Emphasis

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

- Art History
- Studio Art

## Art History

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

## Studio Art

Code	Title	Credits
<b>Supporting Courses</b>		<b>19</b>
ART 101	Tools, Safety, and Materials	
ART 105	Introductory Drawing	
ART 106	Three Dimensional Design	
ART 107	Two-Dimensional Design	
ART 202	Modern Art	
<b>Introductory Studios (choose 6 credits):</b>		
ART 210	Introduction to Painting	
ART 220	Introduction to Sculpture	
ART 230	Introduction to Ceramics	
ART 235	Introduction to Woodworking and Furniture Design	
ART 243	Introduction to Photography	
ART 250	Introduction to Fibers/Textiles	
ART 260	Introduction to Jewelry/Metals	
ART 270	Introduction to Printmaking	
<b>Upper-Level Courses <sup>1</sup></b>		<b>6</b>
<b>Total Credits</b>		<b>25</b>

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

## Certificates

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

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## C

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## T

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## W

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# Applied Politics

## Certificate Program

Code	Title	Credits
<b>Supporting Courses</b>		<b>6-7</b>
POL SCI 101	American Government and Politics	
<b>Statistics (choose one):</b>		
BUSAN 220	Introduction to Business Statistics	
MATH 260	Introductory Statistics	
PSYCH 205	Social Science Statistics	
<b>Upper Level Requirements</b>		<b>15</b>
COMM 305	Principles of Public Relations/Corporate Communications	
COMM 382	Public Relations Campaigns	
COMM 477	Social Media Strategies	
POL SCI 318	Political Behavior	
<b>Electives (choose one):</b>		
POL SCI 316	Congress: Politics and Policy	
POL SCI 353	Politics of Developing Areas	
POL SCI 370	Foreign and Defense Policies	
POL SCI 380	Global Environmental Politics and Policy	
POL SCI 478	Honors in the Major	
POL SCI 497	Internship	
POL SCI 498	Independent Study	
PUB ADM 408	Public Policy Analysis	
<b>Total Credits</b>		<b>21-22</b>

# Child Welfare

The Child Welfare Certificate Program, housed administratively in the Social Work Professional Program, is a campus-wide program open to students in any major. The certificate orients and prepares students for a career in child welfare and family services. The course work provides participants with a background in the development, organization and functioning of public, private and tribal child welfare services; examines ethics in practice within human services; increases understanding of basic family lifecycle principles; and emphasizes student development of practice skills across the continuum of child welfare services.

## Certificate Program

Code	Title	Credits
<b>Required Courses:</b>		
SOC WORK 307	Ethics in Practice	3
SOC WORK 351	Overview of the Child Welfare System	3
SOC WORK 375	Family Principles and Patterns	3
SOC WORK 451	Child Welfare Practice	3
SOC WORK 455	First Nations Futures and Decolonizing Social Work	2
<b>Total Credits</b>		<b>14</b>

## Data Analytics

This certificate enables you to develop skills for exploring and analyzing large or complex data sets. The curriculum builds on the basic analytic concepts and techniques required of data science professionals. Students completing this certificate will be well positioned to advise organizations on major decisions that can be informed by massive intertwined data sets.

### Certificate Program

Code	Title	Credits
<b>Required Courses:</b>		
COMP SCI 451	Database Systems and Big Data Processing	3
INFO SCI 302	Introduction to Data Science	3
INFO SCI 410	Analytics and Information Problems	3
INFO SCI 412	Data Mining and Predictive Analytics	3
<b>Total Credits</b>		<b>12</b>

## Digital Marketing and Sales Management

### Certificate Program

The Digital Marketing and Sales Management Certificate is a 15-credit certificate for professionals working in the marketing functional area who desire to update their skills and knowledge. Our expert faculty use real-world examples, case studies and timely discussions to help marketing professionals become more proficient in digital aspects such as online advertising and managing social media portals while also enabling them to enhance the selling strategy of their organization. The courses in the certificate include sales-focused courses coupled with others that support the digital transformation of the marketing function.

Code	Title	Credits
<b>Required Courses:</b>		
MKTG 327	Selling and Sales Management	3
MKTG 345	Digital Marketing	3
MKTG 426	Marketing Strategy	3
MKTG 428	Consumer Behavior	3
MKTG 447	Social Media Marketing and Analytics	3
<b>Total Credits</b>		<b>15</b>

## Electrical Engineering Principles

### Certificate Program

Code	Title	Credits
ET 101	Fundamentals of Engineering Technology	2
ET 105	Fundamentals of Drawing	3
ENGR 120	Electrical Circuits I	3
ENGR 121	Electrical Circuits I Lab	1
ET 142	Introduction to Programming	3
<b>Total Credits</b>		<b>12</b>

## Emergency Management

### Certificate Program

**Faculty,** David Helpap,

There is a nationwide effort within the Emergency Management industry today toward requiring bachelor's degrees for professionals working in the field. This translates into more jobs in the future requiring advanced knowledge, critical thinking skills, and academic preparation – in short, a college degree. A degree from the University of Wisconsin-Green Bay with this added certificate will give you the edge you need to compete and succeed.

The risk of hazardous events is increasing dramatically as a consequence of our growing ability to alter our environment.

- Tornadoes, floods, fires, disease and other natural hazards endanger people and property each year.
- Homeland security is now a major focus for our federal, state and local governments. The events of September 11, 2001 brought home the acute necessity of planning for the social and economic impact of man-made disasters in the form of potential terrorist attacks.
- Technological hazards are on the increase. Complex industrial processes using hazardous materials are becoming more common in the workplace.

Experts project that emergencies causing catastrophic loss of life, property and resources will occur more frequently in the future. Devastation and losses from a disaster can be lessened when businesses, emergency personnel and governments put organized, developed plans in place. Such planning requires skills in budgeting, administration, management and emergency operation procedures.

## Certificate Program

Code	Title	Credits
<b>Complete Required Upper Level Courses</b>		
PUB ADM 335	Principles and Practices of Emergency Management	3
PUB ADM 336	Strategic Emergency Preparedness, Planning and Implementation	3
PUB ADM 337	Disaster Response Operations and Management	3
PUB ADM 338	Disaster Recovery	3
PUB ADM 339	Political and Policy Dimensions of Emergency Management	3
<b>Total Credits</b>		<b>15</b>

## Entrepreneurship

### Certificate Program

Matthew Geimer, Chair of Dept. of Business Administration

A certificate in Entrepreneurship is available to students in all academic programs. It consists of a four-course structure. Entrepreneurship skills keep organizations viable through innovation, and are greatly valued in the workplace. Students learn about problem solving, resourcefulness, and entrepreneurial tools, as well as develop independent, creative and critical thinking skills. The final component of the certificate program is an intensive scalable business startup and pitch experience where students will start a real business. Students may need to declare for an Entrepreneurship Certificate prior to course registration.

Code	Title	Credits
<b>Required Courses</b>		
ENTRP 272	Introduction to Entrepreneurship	3
ENTRP 373	Entrepreneurial Finance	3
ENTRP 481	Small Business Management & Family Entrepreneurship	3
ENTRP 491	Advanced Entrepreneurial Marketing	3
<b>Total Credits</b>		<b>12</b>

## Foundations of Education

The Accelerated Degree program has been designed with built-in flexibility and personalized advising, specially developed to expedite professional growth, while making it possible to manage a job, family and home. The Accelerated Degree allows for the option of completing an emphasis in Foundations of Education.

Foundations of Education anticipates the demand for teachers and instructors inside and outside the classroom at the elementary, high school, postsecondary and professional levels. An Accelerated Degree with an Education Emphasis will meet the requirements needed for students to apply for a substitute teacher license.

### Certificate Program

Code	Title	Credits
<b>Required Courses:</b>		<b>3</b>
EDUC 206	Culturally Responsive Teaching and Learning	
<b>Choose 3 of the Following:</b>		<b>9</b>
COMM 133	Fundamentals of Public Address	
EDUC 208	Concepts, Issues, and Field Experience in Education	
HUM STUD 213	Ethnic Diversity in America Past and Present	

**Total Credits****12**

## French Language

### Certificate Program

This certificate will allow a professional credential in the French language by completing three-years of university level French. Students may complete any of the first four semesters via credit for prior learning, but they must complete French 320 and 325 at the college level. At the completion of French 325, they may choose to take the Global Seal of Biliteracy Exam in order ascertain their level according to the Common European Framework of Reference for Languages.

Code	Title	Credits
<b>Required:</b>		
FRENCH 101	Introduction to the French Language I	4
FRENCH 102	Introduction to the French Language II	4
FRENCH 201	Intermediate French Language I	3
FRENCH 202	Intermediate French Language II	3
FRENCH 320	Intermediate Composition and Conversation	3
FRENCH 325	Advanced French Conversation and Composition	3
<b>Total Credits</b>		<b>20</b>

## Civic and Community Engagement

### Certificate Program

The Civic and Community Engagement Certificate Program is a campus-wide program open to students in any major that combines Academic Affairs and Student Affairs areas of our campus. Consistent with UWGB's problem-focused, interdisciplinary traditions, traditional course work is available across a broad range of fields, including, but not limited to Public and Environmental Affairs, Psychology, Education, Democracy & Justice Studies, First Nations Studies, and Women and Gender Studies. The certificate also includes the development of a participant-directed, high impact practices such as an internship, research project or other practicum. It draws on HIPs outside traditional classroom to recognize significant community- and civics-related initiatives provided by the Student Engagement Center, Cofrin School of Business, Campus Compact, and Tommy L. Thompson Center for Public Leadership on our campus. The Civic and Community Engagement Certificate is flexible and can be earned by students in any major and does not add any time to degree or tuition costs.

The Civic and Community Engagement Certificate Program consists of courses covering two key categories: engagement and praxis inside and outside traditional classroom. The Certificate is participant-driven, allowing those enrolled to select courses and experiences directed by areas of interest in consultation with a CCE Faculty Advisor. It also treats community engagement holistically and recognizes complex civic lives of our students, who contribute significant time and effort to the life of our campus and community outside traditional coursework.

The certificate is available to current students majoring in any field and members of the community who want to gain "soft skills," and enhance their understanding of the local community, and earn a formal credential.

Code	Title	Credits
<b>Choose 4 courses (12 credits) from the list below:</b>		<b>12</b>
COMM SCI 200	Civic Scholars Practicum	
DJS 200	Mentoring for Equity and Inclusion	
EDUC 208	Concepts, Issues, and Field Experience in Education	
EDUC 209	Phuture Phoenix Service Learning	
FNS 211	Tutoring and Mentoring First Nations Youth in K-12	
COMM SCI 493	Peer Mentor for First Year Seminars	
COMM SCI 498	Independent Study	
COMM SCI 497	Internship	
DJS 400	Mentoring for Equity and Inclusion	
PSYCH 492	Applied Research Lab (Topic: New Scholars Rising)	
PUB ADM 326	Philanthropy: Civic Engagement through Giving	

WOST 350

Topics in Women's, Gender, and Sexuality Studies

**Total Credits****12**

In addition to coursework, students must complete at least one of the community engagement experiences listed below.

Students must complete at least twelve credits of coursework (4 courses) and at least one non-credit community engagement experience.

**Community Engagement Outside Classroom (non-credit bearing and verified by the Center for Community Engagement or badgr-verified, if available)**

**Take 1-4 experiences from the list below:**

Student Ambassadors or Student Government Association  
 ELE plus SEC programming, including potential Civics Week and Active Citizen Cohort program (Student Engagement programming)  
 Civil Dialogues Campus Leader experience  
 Newman Fellowship experience  
 Maple Street Project participation  
 Women Leadership Institute certificate  
 Mentoring Project at the Cofrin School of Business (soon to be open to all majors)  
 Phoenix Leadership Program certificate from the Cofrin School of Business (open to all majors)  
 Non-Campus Community Engagement portfolio (Leadership GB, serving on community org's Board, and similar)

Any internship, independent study, teaching assistantship, research assistantship or honors project dealing with community and civic engagement (any prefix) as well as community or civic engagement courses in the major, **subject to CCE approval**.

\*Once students declare certificate, CCE staff (couryd@uwgb.edu, heatha@uwgb.edu, and levintoe@uwgb.edu) should be notified for future advising and evaluation of non-credit experiences and non-listed curricular options.

## Geographic Information Systems

### Certificate Program

Code	Title	Credits
<b>Required Courses:</b>		<b>12</b>
GEOG 102 or ENV SCI 102	World Regions and Concepts: A Geographic Analysis Introduction to Environmental Sciences	
ENV SCI 250	Introduction to Geographic Information Systems (GIS)	
ENV SCI 337	Environmental GIS	
ENV SCI 351	Web GIS and Applications	
<b>Electives (choose 1):</b>		<b>3</b>
GEOG 351	Elements of Cartography	
GEOG 341	Urban Geography	
<b>Total Credits</b>		<b>15</b>

## German Engineering

### Certificate Program

In a global economy, graduates often work with international companies. In the Green Bay/NEW region, there are several companies; such as EMT International and its German partner company, Rotocontrol International; Fabio-Perini and its German parent company, the Korber group; and Millipore Sigma and its parent company, Merck HGaA. UW-Green Bay has an educational partnership with universities in the Hessian region that allows for study abroad experiences in both directions. This certificate will provide Engineering and German students interested in opportunities with German companies the skills to integrate German and Engineering. UW-Green Bay's German and Engineering programs are collaborating on a project to increase study abroad opportunities for both German and U.S. students and this certificate will strengthen this initiative.

Code	Title	Credits
<b>Supporting Courses</b>		<b>15</b>
ME 104	Engineering Graphics	
ET 207	Parametric Modeling	
ENGR 216	Basic Manufacturing Processes	



ENGR 236	Technical Writing and Information Literacy
GERMAN 201	Intermediate German Language I
GERMAN 202	Intermediate German Language II
<b>Upper-Level Requirements</b>	
GERMAN 320	Intermediate German Conversation and Composition
<b>Elective: (Complete one)</b>	
ET 400	Co-op/Internship in Engineering Technology
GERMAN 355	Deutsche Kultur und Landeskunde
GERMAN 497	Internship
GERMAN 499	Travel Course
HUM STUD 356	German Culture
<b>Total Credits</b>	

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## Health Information Management

### Post-Baccalaureate Health Information Management & Technology (HIMT) Certificate Program

The Post-Baccalaureate HIMT certificate program is a **fully online, asynchronous** certificate program comprised of existing BS-HIMT courses that are part of the collaborative online BS-HIMT program. The HIMT curriculum complies with the Commission on Accreditation for Health Information and Informatics Management (CAHIIM) Education standards. Upon successful completion of the certificate requirements, students (with an existing bachelor's degree) are eligible to sit for professional credentials offered thru The American Health Information Management Association (AHIMA). Credentials earned thru AHIMA are the gold-standard for Health Information Management professionals.

The Post-Baccalaureate HIMT certificate program will serve as an option for both BS-HIMT degree-seeking students **with a prior bachelor's degree**, as well as a freestanding certificate program for non-degree (i.e. certificate-only) students with an earned bachelor's degree. HIMT Certificate students may elect to pursue the full BS-HIMT degree following completion of the certificate. To assure academic rigor, "Post-Baccalaureate HIMT certificate programs must be in compliance with the 2018 Accreditation Standards for Baccalaureate Degree Programs and therefore must assure the achievement of all competencies as required by the 2018 HIM Curricula Competencies for Baccalaureate **Degree** programs. A coherent and complete program offers a pathway to the HIM profession for *prospective students that hold a previously earned baccalaureate degree or higher from an academic institution*." (CAHIIM, 2021)

Following the collaborative model, students select and enroll at a home campus (i.e., UW-Green Bay) from which they will receive full academic supports and the certificate is conferred. Academic advising is provided by the designated BS-HIMT advisor at each institution.

#### Program Requirements and Curriculum:

Admission requirements for the Post-Baccalaureate HIMT certificate program include an earned Bachelor's degree. Program prerequisites include coursework in College Algebra, College-level Statistics, Communications, Biology, and Medical Terminology.

Below outlines the 24-credit curriculum for the certificate. Students must successfully complete all eight courses to earn the certificate.

Code	Title	Credits
<b>Required Courses:</b>		<b>24</b>
HIMT 301	Digital Literacy in Healthcare	
HIMT 340	Ethical issues, Security Management and Compliance	
HIMT 380	Healthcare Billing, Coding and Reimbursement	
HIMT 400	Healthcare Information and Technology - Data	
HIMT 415	Human Resource Management in Healthcare	
HIMT 420	Healthcare Systems: Project Management	
HIMT 430	Quality Assessment and Improvement	
HIMT 440	Group Processes, Team Building and Leadership	
<b>Total Credits</b>		<b>24</b>

#### Program Learning Outcomes:

As defined above, the certificate program will consist exclusively of existing HIMT courses.

# Lesbian, Gay, Bisexual, Transgender, and Queer Studies

## Certificate Program

The Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ) Studies Certificate Program, housed administratively in the Women's, Gender, and Sexuality Studies Program (WGSS), is a campus-wide program open to students in any major. Consistent with UWGB's problem-focused, interdisciplinary traditions, course work is available across a broad range of fields, including, but not limited to WGSS, Democracy and Justice Studies, Human Development, History, English, and Humanities. The certificate also includes additional training in diversity and the development of a participant-directed, high-impact practice such as an internship, research project, or other practicum.

The LGBTQ Studies Certificate Program provides participants with a background in the history and lived experiences of Gender, Sexuality, and Romantic Minorities (GSRMs). The Certificate is participant-driven, allowing those enrolled to select courses and experiences directed by areas of interest (e.g., persons interested in the helping professions may seek a relevant internship in Human Development, Social Work, or Psychology; literary fans could study GSRMs through English electives and stage a reading of Oscar Wilde; the possibilities are endless). As such, the Certificate allows participants to work with an Advisor to cater the Certificate to their interests. For some, this could involve completing coursework across a number of different program areas; others will find that clustering coursework within a narrow field is most appropriate.

The certificate is available to current students majoring in any field and members of the community who wish to think informatively and critically about the lives and contributions of LGBTQ people, to respect the dignity of LGBTQ people, and to understand and interact with a culture that contributes to the diversity of our world. A defining feature of this Certificate is completion of a participant-directed, high-impact practice, some examples include activities such as a(n):

- independent study: Queer Theory symposium; contribute to building the LGBTQ archive at the Cofrin Library
- honors project: stage a public reading of a play by Oscar Wilde
- internship: volunteer at a local organization working with at-risk LGBTQ youth; develop and promote LGBTQ-themed programs for the Student Union
- research assistantship: assisting a faculty member on relationship study with same-sex couples; oral history of LGBTQ elders

Participants completing an LGBTQ Studies Certificate should demonstrate knowledge of the following concepts and issues:

1. The socio-cultural and historical construction of gender and sexual identities.
2. Intersectionality of gender and sexuality with race/ethnicity, religion, class, and nationality.
3. How to effectively challenge bigotry, inequality, and systems of oppression, including those based on gender and sexuality.
4. Major issues pertaining to the lives of LGBTQ people, historically and in contemporary societies (e.g. representations of LGBTQ individuals; the impact of queer culture on the dominant culture; violence; relationships between LGBTQ individuals/communities and institutions such as the medical and mental health professions, the law, religion, the media, education, and the military; family; and the LGBTQ Community and work.

Students must complete Ally Training I and II prior to declaring the certificate.

Code	Title	Credits
<b>Required Courses</b>		<b>6</b>
WOST 201	Introduction to LGBTQ Studies	
<b>Choose 3 credits from the following options:</b> <sup>1</sup>		
WOST 350	Topics in Women's, Gender, and Sexuality Studies (Topics: LGBTQ+ ARCHIVE WORKSHOP and QUEERING MULTICULT NARRATIVES only)	
WOST 495	Teaching Assistantship	
WOST 497	Internship	
WOST 498	Independent Study	
<b>Elective Options</b> <sup>2</sup>		<b>9</b>
<b>Choose 9 credits from the following options:</b>		
HISTORY 370	History of Sexuality in the U.S.	
SOCIOL 375	Sociology of Sexual and Intimate Relations	
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Students may work with their certificate advisor to substitute other relevant student-directed high impact practices such as independent studies, research assistantships, etc.

<sup>2</sup> Students may work with their certificate advisor to substitute other courses relevant to their content area and area of interest.

# Management in Health Systems

## Certificate Program

**Description of the Certificate:** This 15 credit certificate is for professionals working, or desiring to work, in the healthcare field. This is designed to serve professionals without any post-secondary education and/or experience in healthcare management. It will provide an overview of the various aspects of healthcare management including: operational management skills and knowledge, budgeting and finance, healthcare economics and population management. As the needs of professional healthcare managers and administrators continue to increase, a Management in Health Systems Certificate will provide the skills to meet the changing needs of today's healthcare industry.

**Format:** The Management in Health Systems certificate is offered in an online format, which allows students to balance their work and/or family obligations while advancing their education and career.

**Course Credits:** Five 3-credit, undergraduate courses are required for the Management in Health Systems certificate. These five courses are also included in UW-Green Bay's Organizational Leadership major with the Management in Health Systems area of emphasis. Courses completed toward the certificate will apply toward the Organizational Leadership major with the Management in Health Systems emphasis for degree-seeking students who choose this major.

Upon successful completion of the Management in Health Systems Certificate, students will receive a digital badge as a form of credentialing.

**Rationale for the Certificate:** Healthcare is the nation's fastest growing field and is projected to consistently grow statewide and nationally over the next 10 years. The Bureau of Labor Statistics forecasts 1.9% annual growth in the healthcare sector through 2024, more than twice the projected rate for almost every other industry. As hospitals and healthcare organizations continue to grow, there is an increased demand for managers to possess the necessary skills to take on leadership responsibilities that include business, technology and healthcare concepts. Creating an online healthcare management emphasis/certificate will help meet the workforce shortage and challenge of matching available talent with staffing needs, particularly in the leadership and management areas. The online format provides flexibility which will allow students to balance their work and/or family obligations while advancing their education and career.

### Pre-requisite:

- High School Diploma or equivalent

### Expectations:

- All candidates must have high school level analytical ability
- Proficient in reading, writing and math
- Proficient in computer skills and technology
- Experience with Microsoft Word, ability to write reports
- Take online exams using a laptop/PC

Code	Title	Credits
<b>Required Courses:</b>		
HLTH MGT 301	Health Care Systems	3
HLTH MGT 302	Healthcare Management	3
HLTH MGT 401	Healthcare Economics & Policy	3
HLTH MGT 402	Population Healthcare Management	3
ORG LEAD 347	Budgeting and Financial Management	3
<b>Total Credits</b>		<b>15</b>

## Marketing Analytics

UW-Green Bay marketing analytics certificate program is designed to provide individuals with the skills and knowledge necessary to analyze marketing data and make informed decisions. The program covers topics such as data science techniques, statistical methods, marketing research, social media and digital marketing analytics.

Upon completion of the program, graduates will be able to apply their skills to a variety of industries, including social media analytics, data driven advising, market research, and digital marketing.

UW-Green Bay's marketing analytics certificate is a valuable investment for learners seeking to advance their careers in marketing or data analysis. It provides them with the skills and knowledges necessary to make data-driven decisions and stay competitive in today's rapidly evolving business landscape.

## Certificate Program

Code	Title	Credits
<b>Required courses:</b>		<b>15</b>
BUSAN 370	Data Science for Managers	
MKTG 322	Principles of Marketing	
MKTG 345	Digital Marketing	
MKTG 424	Research Methods	
MKTG 447	Social Media Marketing and Analytics	
<b>Total Credits</b>		<b>15</b>

## Mechanical Engineering Principles

### Certificate Program

Code	Title	Credits
<b>Required courses:</b>		
ENGR 204	Programming for Engineers	2
ENGR 216	Basic Manufacturing Processes	3
ET 101	Fundamentals of Engineering Technology	2
ET 207	Parametric Modeling	2
ME 104	Engineering Graphics	1
ME 201	Engineering Materials	3
<b>Total Credits</b>		<b>13</b>

## Multicultural U.S. History

### Certificate Program

The Multicultural U.S. History Certificate enables students to think informatively and critically about the multiple perspectives and diverse cultures that have comprised the indigenous, colonial, and modern land we now call the United States. The certificate is open to students in any major or minor who wish to learn more about the historical significance of race, ethnicity, class, gender, sexuality and other forms of diversity in shaping the American experience. Students who complete the certificate will have a greater awareness of the rich complexity and multicultural heritage of the United States.

Students who complete the Multicultural U.S. History Certificate will demonstrate the following program learning outcomes:

- Students will demonstrate an understanding of the significance of racial, ethnic, gender, and other forms of diversity in shaping human experiences and history.
- Students will demonstrate their own understanding of the significance of studying history and of the role of historical perspectives in engaged citizenship.
- Students will show an understanding of how power, hierarchies, and social arrangements shape society.

Code	Title	Credits
<b>Supporting courses (choose one):</b>		<b>3</b>
DJS 221	Law and Equality in Historical Perspective	
FNS 225	Introduction to First Nations Studies	
HISTORY 207	Introduction to African-American History	
<b>Required courses (choose three):</b>		<b>9</b>
FNS 360	Women and Gender in First Nations Communities	
FNS 374	Wisconsin First Nations History	
HISTORY 309	United States Immigration History	
HISTORY 340	Topics in African American History	
HISTORY 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 425	Topics in U.S. History (Topic: Asian American History)	

HUM STUD 353

Latinx Culture

**Total Credits****12**

## Nonprofit Management

### Certificate Program

**Faculty,** Kerry Kuenzi

The Nonprofit Management Certificate is a broad-based certificate that demonstrates students have achieved an understanding of the management principles for nonprofit organizations. Regardless of one's chosen major or degree, many graduates will find themselves working in or directing nonprofit enterprises. Understanding principles of nonprofit management and developing tools for such management is critical to future success.

A certificate in Nonprofit Management is available to students in any academic program. It consists of supporting courses that complement academic plans of students in the Organizational Leadership degree program who have chosen to pursue a Public/Nonprofit emphasis. This certificate program is also attractive to students who have chosen other majors, such as Arts Management, Psychology, Political Science, Democracy & Justice Studies, Public Administration, Social Work or others but desire to earn a free-standing certificate in nonprofit management. In addition to coursework, a critical element of the certificate program is the internship experience. The department has a wide array of strong internship partnerships with community agencies.

### Requirements for the Certificate

Code	Title	Credits
<b>Recommended supporting course</b>		
PUB ADM 215	Introduction to Public and Nonprofit Service	
<b>Required Courses</b>		<b>18</b>
PUB ADM 315	Public and Non-Profit Management	
PUB ADM 415	Public and Nonprofit Budgeting	
PUB ADM 425	Marketing, Fund Development, and Grant Writing for Nonprofits	
PUB ADM 428	Public and Nonprofit Program Evaluation	
PUB ADM 497	Internship	
<b>Complete one of the following</b>		
PUB ADM 344	Leadership in Organizations	
PUB ADM 345	Human Resource and Risk Management	
<b>Total Credits</b>		<b>18</b>

## Organizational Development

### Certificate Program

Code	Title	Credits
<b>Required Courses:</b>		
COMM 166	Fundamentals of Interpersonal Communication	3
ORG LEAD 347	Budgeting and Financial Management	3
ORG LEAD 348	Organizational Behavior Across Sectors	3
PUB ADM 345	Human Resource and Risk Management	3
<b>Total Credits</b>		<b>12</b>

## Personal Training

### Certificate Program

Code	Title	Credits
<b>Required:</b>		<b>12</b>
HUM BIOL 116	First Aid and Emergency Care Procedures <sup>1</sup>	
HUM BIOL 270	Essentials of Personal Training	
HUM BIOL 343	Exercise Prescription and Evaluation	

or HUM BIOL 360	Exercise Physiology
NUT SCI 270	Sport and Performance Nutrition
or NUT SCI 300	Human Nutrition

**Total Credits****12**

- <sup>1</sup> If students can provide documentation of current AHA or ARC BLS adult CPR/AED & First Aid certification, students can select an additional course listed to fulfil the 12 credit requirement.

## Physical Education

### Including Coaching Certification

**Faculty** - Tim Kaufman, Chair

The physical education unit does not offer a major or minor. However, physical education credits are included in a student's grade point average and may be applied toward a degree where approved by a program or as elective credits.

Enrollment in physical education activity presumes a student's health status is appropriate for the course selected. A physical examination and the filing of a health history form with the office of Student Health Services are recommended.

### Coaching Certification

The coaching certification program consists of a minimum of 18 credits to prepare students for coaching responsibilities and is approved by the Wisconsin Department of Public Instruction for athletic coaching preparation for the public schools of Wisconsin. Youth-sport coaches are encouraged to acquire similar training.

Students desiring certification may normally complete requirements within two academic years, but it is wise to begin coaching certification coursework early. Completion of the coaching certification program is noted on your transcript.

Some coaching certification courses are appropriate for interdisciplinary study and many students select individual courses without completing the entire program. Persons already teaching and/or coaching may take courses to expand their personal and professional background.

Since many of the following courses are dual listed at the undergraduate and graduate levels, some students may opt to use select courses to satisfy degree requirements in various graduate programs. Students should consult with their graduate program advisor for approval.

UW-Green Bay's coaching certification program is consistent with the recommendations of the National Council of State High School Coaches, the National Association for Girls and Women in Sport, and the American Alliance of Health, Physical Education, Recreation and Dance.

Code	Title	Credits
<b>First Aid/CPR Requirement</b>		<b>0-3</b>
HUM BIOL 116	First Aid and Emergency Care Procedures	
Or faculty approved external certification		
<b>Required Courses</b>		<b>18</b>
HUM BIOL 102	Introduction to Human Biology	
or BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
HUM BIOL 210	Prevention and Treatment of Athletic Injuries	
EDUC 416/616	Principles of Coaching	
EDUC 417/617	Philosophy of Athletics and Coaching	
EDUC 418/618	Organization and Administration of Athletics	
EDUC 419/619	Field Experience in Coaching	
<b>Total Credits</b>		<b>18-21</b>

## Professional Ethics

### Certificate Program

Certificate in Professional Ethics is available to students in any academic program. It is designed for a broad range of professions, including business, engineering, politics, law, medicine, nursing, social work, counseling, and teaching. Topics covered include ethical theory, professional codes of conduct, moral reflection, and ethical argumentation and debate. The emphasis and ultimate goal of the program is the development of a deeper understanding of oneself as a responsible professional.

**Requirements:** To attain the certificate, students will need to complete four courses (12 credits), with:

- at least one course from Category A,
- at least two courses from Category B,
- and a fourth course from any category (including Category C)

Courses within Category A involve profession-specific coursework and provide students the opportunity to consider applied ethical issues in the fields of business, medicine, engineering, and environmental policy. The courses within this category introduce students to a variety of concrete problems and case studies, ranging from euthanasia, physician-assisted suicide, and organ transplantation (for those pursuing medical degrees) to corporate social responsibility, environmental sustainability, and the ethical permissibility of whistleblowing (for those pursuing degrees in business, engineering, or environmental policy), to name just a few.

Such issues, however, gesture at deeper and more profound questions, and the courses in Category B provide students with the opportunity to consider these more abstract problems, answers to which are necessary for any informed and rigorous approach to applied ethics. What, for instance, are the ethical merits or demerits of capitalism? Which of the main normative ethical theories should one utilize when approaching applied issues? What is the nature of happiness and the good life? The courses in Category B offer students the opportunity to reach informed and reasoned convictions about such questions.

Finally, the courses in Category C permit students the flexibility to pursue topics unique to their chosen career path or field of interest. Students are not required to choose from Category C to attain the certificate; they may choose from among Categories A and B to satisfy this fourth-course requirement.

**Learning Outcomes:** By completing a professional ethics certificate, students will be able to

- enhance their careers by attaining a greater knowledge of ethics,
- develop an ability to recognize and address ethical questions,
- learn to make ethical decisions on the basis of sound reasoning and informed thinking, and
- become familiar with various ethical case studies as it pertains to the professions.

Students must attain at least a B in all courses and can pursue these courses in any order.

Code	Title	Credits
<b>Category A (choose one course):</b>		<b>3</b>
PHILOS 208	Biomedical Ethics	
PHILOS 220	Environmental Ethics	
PHILOS 227	Business Ethics	
<b>Category B (choose two courses):</b>		<b>6</b>
PHILOS 101	Introduction to Philosophy	
PHILOS 102	Contemporary Ethical Issues	
PHILOS 103	Logic and Reasoning	
PHILOS 112	Scientific Reasoning, Risk, and Probability	
PHILOS 113	AI, Algorithms, and Truth	
PHILOS 208	Biomedical Ethics	
PHILOS 212	Philosophy, Religion, and Science	
PHILOS 216	Introduction to Asian Philosophy	
PHILOS 220	Environmental Ethics	
PHILOS 227	Business Ethics	
PHILOS 301	Ethical Theory	
PHILOS 324	Contemporary Philosophy	
PHILOS 326	Philosophy, Politics and Law	
PHILOS 351	Happiness and the Good Life	
<b>Category C (choose one course): <sup>1</sup></b>		<b>3</b>
BUS ADM 201	Principles of Sustainability in Business	
BUS ADM 202	Introduction to Business	
EDUC 417	Philosophy of Athletics and Coaching	
ENV SCI 303	Environmental Sustainability	
ENV SCI 425	Global Climate Change	
EPP 379	Natural Resources Policy, Law, and Administration	
FNS 225	Introduction to First Nations Studies	



FNS 392	First Nations Justice and Tribal Governments
HIMT 340	Ethical issues, Security Management and Compliance
HISTORY 326	Global Environmental History
HUM BIOL 405	Biotechnology and Ethics
HUM STUD 213	Ethnic Diversity in America Past and Present
MIL SCI 201	Basic Leadership and Management I
PSYCH 380	Conservation Psychology
PUB ADM 315	Public and Non-Profit Management
SOC WORK 305	The Social Work Profession
SPANISH 357	Cultura Latina

**Total Credits****12**

<sup>1</sup> Students may instead opt to choose a course not already used from Category A or B to satisfy the overall 12 credit requirement.

## Rising Leadership

### Certificate Program

To complement the Org Lead core classes, the Rising Leadership Certificate offers options for all students (not just women) to expand their understanding of issues of gender in organizations and to equip individuals with leadership aspirations with the ability to develop an inclusive workplace with special focus on gender equity.

Prior to the pandemic, the representation of women in leadership positions was growing at a slow but steady pace. While women represent half of the labor force and have eclipsed men in earning college degrees, women still hold only 25% of corporate leadership roles (McKinsey & Company, 2020). Moreover, research is beginning to show the disproportionate impact the COVID-19 pandemic has had on working women. Businesses and organizations of all types face the challenge of retaining and supporting our female team members at all levels, ages and life situations--especially African American women. No one is experiencing business as usual, but women, especially mothers, senior-level women and Black women – have faced distinct challenges as indicated in McKinsey & Company's 2020 report.

To address these challenges, both ongoing and recent, organizations need to develop women as leaders by providing support and education for women at all career stages. Organizational leaders need to understand the barriers and challenges facing women and how to utilize leadership strategies to create policies and cultures that promote success of employees. Employers are looking for credentialed programs to educate and support women at many levels and in many contexts so that they can advance into top leadership positions.

The purpose of the Rising Leadership Certificate is to prepare early-career/emerging leaders with key knowledge, perspectives and skills relating to gender and equity to promote career development in the workplace. With a focus on women and gender inclusivity, it will address societal, organizational, and personal issues that enable an individual to thrive as a leader and professional. It will be offered for credit-seeking undergraduate students as well as for community members as a non-credit option.

This Certificate will augment the existing Organizational Leadership Emphasis options for students. Currently, the flexible major requires core courses in leadership (Leadership in Organizations, HR, Org Research, Org Behavior, Budgeting) coupled with choice of Emphasis composed of 4-5 courses (9 choices, currently, including Public/NP Mgt, Healthcare Mgt, Business, Communications, and more).

The Certificate has been developed by the Organizational Leadership program in collaboration with the Institute for Women's Leadership (IWL) at UW-Green Bay, a new university-wide initiative that will offer an array of opportunities designed to develop the leadership potential of professional women in Wisconsin (and beyond). The Rising Leadership Certificate aims to serve mostly undergraduate students pursuing a degree. Many students pursuing the Organizational Leadership major can select the emphasis entitled Rising Leadership which also earns them the Certificate. Students with any other major declared can also pursue this Certificate. At the same time, community members can enroll in the five courses to obtain a stand-alone, non-credit Certificate in Rising Leadership.

Code	Title	Credits
<b>Required Supporting Courses</b>		<b>9</b>
SOCIOL 238	Sociological Perspectives on Gender	
WOST 203	Gender in Popular Culture	
WOST 241	Introduction to Women's, Gender, and Sexuality Studies	
<b>Required Upper Level Courses</b>		<b>6</b>
ORG LEAD 301	Rising Leadership	
ORG LEAD 302	Gender & Equity in Organizational Leadership	
<b>Total Credits</b>		<b>15</b>



## Spanish/English Translation and Interpretation

This undergraduate Certificate in Spanish/English Translation and Interpretation provides UW-Green Bay students with a broad exposure to the theory and practice of the growing field of translation studies. Students can complement any major or minor with this Certificate. The Certificate does not substitute for or counts as a major or minor. However, Spanish courses completed towards the Certificate can also count towards a major or minor in Spanish.

To be eligible for the Certificate, students must be candidates for a B.A. or a B.S. degree at UW-Green Bay or have already completed such a degree at UW-Green Bay or elsewhere. Students must possess advanced linguistic proficiency in both English and Spanish. Spanish majors are eligible to complete the Certificate in Translation. Minors may be able to complete the Certificate in Translation with prior approval by the Spanish Program Coordinator, or they can take some of the courses as electives without completing the full Certificate.

### Certificate Program

Code	Title	Credits
<b>Required Courses:</b>		<b>15</b>
SPANISH 345	Advanced Spanish Grammar <sup>1</sup>	
SPANISH 372	Spanish Phonetics <sup>1</sup>	
SPANISH 383	Spanish in the Professions <sup>1</sup>	
SPANISH 454	Translation and Interpretation <sup>2</sup>	
SPANISH 465	Special Topics (Translation and Interpretation) <sup>1</sup>	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Course must be completed with a final grade of B or better for use in completing this certificate

<sup>2</sup> Practicum must be passed with a final grade of A for use in completing this certificate

## SPARK

### SPARK Certificate for Professional Success

The CAHSS SPARK (Self-Powered Adaptive and Resilient Knowledge) Certificate for Professional Success is an interdisciplinary certificate designed to equip students with the essential skills needed to thrive in today's dynamic and ever-changing professional landscape. Through a carefully curated set of courses—Design Thinking for the Intentional Life, Applied Learning, Professional Pathways, and Cultivating Creativity—students will learn how to design their futures, navigate the professional world with confidence, develop their creative potential, and master the art of lifelong learning.

This program is ideal for students who seek to be adaptable, self-driven, and innovative as they prepare for their careers.

Code	Title	Credits
DESIGN 238	Design Thinking for the Intentional Life	3
HUM STUD 225	Professional Pathways	3
HUM STUD 227	Cultivating Creativity	3
PSYCH 103	Applied Learning	3
<b>Total Credits</b>		<b>12</b>

## Supply Chain Management

### Certificate Program

Certificate in Supply Chain Management (SCM) is a 15 credit certificate for professionals working or desiring to work in the supply chain management function. This is designed to serve professionals with or without formal education and/or experience in SCM. It will provide an overview of the various aspects of SCM, improve the understanding of various principles and its applications in global supply chain management. This certificate will also provide exposure to logistics, transportation, packaging, operations planning, inventory management, lean and six-sigma and enterprise resource planning (ERP) among others.

Code	Title	Credits
SCM 384	Advanced Supply Chain Management	3
SCM 380	Project Management	3
SCM 381	Operations Management	3
SCM 383	Enterprise Resource Planning	3

SCM 434	Logistics Management	3
Total Credits		15

# Teaching English as a Second Language

## Certificate Program

The certificate of completion in Teaching English as a Second Language (TESL) is offered under the auspices of the Humanities program as an 18-credit program of study. It is designed for students who want to teach in situations that **do not** require Wisconsin public school teacher licensure, such as teaching English overseas or in adult literacy programs or tutorial programs sponsored by community service organizations or private companies. It can be a useful complement to training in other areas such as community and regional development, science and technology, or international business — wherever English is an important access language or a medium for training or cross-cultural communication.

**This certificate is not equivalent to a professional licensure program for teaching in public elementary or secondary schools in Wisconsin.** It can, however, be a first step toward obtaining that qualification. UW-Green Bay does offer professional licensure in English as a Second Language that is approved by the Wisconsin Department of Public Instruction. A full description of the ESL teacher licensure program and requirements at UW-Green Bay is available from the professional program in Education.

To be eligible for the TESL certificate of completion program, students must either be candidates for a B.A. or B.S. degree or have already completed such a degree.

## Requirements for the Certificate

Code	Title	Credits
Required Courses		15
EDUC 315	Teaching English as a Second Language	
HUM STUD 160	Introduction to Language	
HUM STUD 319	Second Language Acquisition & Assessment	
HUM STUD 321	Sociolinguistics	
HUM STUD 497	Internship	
Choose one elective from the following:		3
COMM 322	Modern Linguistics	
ENGLISH 340	History of the English Language	
HUM STUD 318	Topics in Linguistics/TESL	
Total Credits		18

# Texts and Technology

Despite initial uncertainty surrounding the public consumption of generative artificial intelligence, writers and authors are maintaining steady growth nationwide . According to a recent Forbes survey, the list of most in-demand skills includes the effective use of GAI, communication, project management, and intrapersonal networking: all of these skills are the core found in technical and professional writers.

Writing and technology have, from the clay tablet on, been close bedfellows. On one hand, the affordances of the tools we use inform the writing we are capable of. Writing has also been fundamental to the syntactical technologies that power the information age: from programming languages and scripts through prompt engineering, a command of the structure, logic, and vocabulary of the English language is useful if not essential.

This certificate will prepare students of all majors to write in those occupations that rely on technology. While all writing is technology, this certificate focuses on the forms of writing that serve as foundations to specific technologies. Courses will cover the conventions of professional and technical writing (PTW) as well as relevant topics (Ex. Technical Writing for Social Justice, Fall 2025) and emergent technologies and methodologies.

## Certificate Program

Code	Title	Credits
Required:		
ENGLISH 228	Introduction to Technical and Professional Writing	3
ENGLISH 314	Topics in Professional & Technical Writing	3
ENGLISH 327	Digital Platforms for Publishing	3
ENGLISH 328	UX Writing	3
Total Credits		12

# Workforce Solutions

## Certificate Program

Code	Title	Credits
<b>Required Courses:</b>		
COMM 166	Fundamentals of Interpersonal Communication	3
FIN 282	Personal Financial Planning	3
HUM STUD 213	Ethnic Diversity in America Past and Present	3
ORG LEAD 348	Organizational Behavior Across Sectors	3
<b>Total Credits</b>		<b>12</b>

## 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 their 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.

## D

- Dietetics (p. 380)

## E

- Engineering (p. 380)

## H

- Health Sciences (p. 381)

## L

- Law (p. 382)

## M

- Military Science (p. 382)

## P

- Pharmacy (p. 384)

## V

- Veterinary Medicine (p. 385)

# 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. 202).

# Engineering

UW-Green Bay provides degrees in mechanical engineering, electrical engineering, three engineering technology majors, and solid preparation and numerous opportunities for those interested in beginning work toward other engineering degrees.. A student at UW-Green Bay can also pursue pre-professional studies with the intent of transferring into engineering programs at other institutions, with several listed below.

Required engineering courses will vary, depending on the engineering program from which a student expects to earn the degree. Generally, a student spends a minimum of two years in engineering studies at UW-Green Bay before transferring to the professional engineering school. Required coursework is typically drawn from mathematics, physics, chemistry, engineering materials, engineering mechanics and other related courses, as well as liberal arts coursework in the humanities, fine arts and social sciences.

Students should expect rigorous requirements and competitive entry for engineering programs. Students should also seek early advice from the various engineering programs and UW-Green Bay's Academic Advising Office.

UW System institutions grant engineering degrees offer courses leading to the degrees both at their home campuses and several satellite sites. The universities are:

- UW-Madison – degrees in agricultural, biomedical, biological systems, chemical, civil, computer, electrical, geological, industrial, materials science, mechanical and nuclear engineering, and engineering mechanics.
- UW-Milwaukee - degrees in civil/environmental engineering and mechanics, electrical, industrial and manufacturing, materials and mechanical engineering.
- UW-Platteville – degrees in civil, electrical, environmental, mechanical, industrial, software engineering, general engineering and engineering physics.
- UW-Stevens Point - degree in paper science and chemical engineering
- UW-Stout - degrees in computer, mechanical, manufacturing, and plastics engineering

Advisers from engineering schools annually visit UW-Green Bay to answer questions and advise prospective students.

## Suggested courses for students planning to complete engineering degrees at another institution:

Code	Title	Credits
<b>Suggested Courses</b>		
MATH 202	Calculus and Analytic Geometry I	4
MATH 203	Calculus and Analytic Geometry II	4
MATH 209	Multivariate Calculus	4
ME 201	Engineering Materials	3
ME 206	Chemistry for Engineers	4
ME 213	Mechanics I	3
ME 214	Mechanics II	3
ME 220	Mechanics of Materials	3
ME 308	Electrical and Electronic Circuits	3
PHYSICS 201 & PHYSICS 203	Principles of Physics I and Introductory Physics Lab I	5
PHYSICS 202 & PHYSICS 204	Principles of Physics II and Introductory Physics Lab II	5
WF 100	First Year Writing	3
<b>Total Credits</b>		<b>44</b>

## 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 ([https://www.americanbar.org/groups/legal\\_education/resources/pre\\_law/](https://www.americanbar.org/groups/legal_education/resources/pre_law/)).

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** – SSG Billie Sabel - Military Science Instructor

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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.

## Courses

### **MIL SCI 101. Leadership and Military Science I. 2 Credits.**

This is an introductory course designed to focus on the fundamental components of service as an officer in the United States Army. Students are familiarized with individual values, leadership traits and the fundamentals of officer ship. Students also learn "life skills" of physical fitness, communication applications, both oral and written, as well as interpersonal relationships. The lab provides basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance, and squad battle drills. Additionally, students learn basic map reading, first aid, physical fitness, and military formations to include basic marching techniques.

Fall Only.

### **MIL SCI 102. Leadership and Military Science II. 2 Credits.**

This course is an orientation to leadership theory and the fundamentals of decision-making process by learning how to solve problems and develop critical thinking skills. Students develop followership skills and the ability to learn goal-setting techniques while working in a group interaction setting. The lab continues to provide basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance and squad battle drills. Students are introduced to the operations order format.

Spring.

### **MIL SCI 103. Introduction to Military Science I. 1 Credit.**

An introductory course designed to focus on the fundamental components of service as an officer in the United States Army. Students are familiarized with individual values, leadership traits and the fundamentals of officer ship. Students also learn "life skills" of physical fitness, communication applications, both oral and written, as well as interpersonal relationships. The course provides basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance, and squad battle drills. Additionally students learn basic map reading, first aid, physical fitness, and military formations to include basic marching techniques. Students are eligible to attend Fox Valley Battalion events to include; Ranger Challenge, Commanders Cup competition and the Military Dining In.

Fall Only.

### **MIL SCI 104. Introduction to Military Science II. 1 Credit.**

Further development of leadership skills and the orientation of the ROTC program designed to focus on the fundamental components of service as an officer in the United States Army. Students are familiarized with individual values, leadership traits and the fundamentals of officer ship. Students also learn "life skills" of physical fitness, communication applications, both oral and written, as well as interpersonal relationships. the course provides basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance, and squad battle drills. Additionally students learn basic map reading, first aid, physical fitness, and military formations to include basic marching techniques. Students are eligible to attend Fox Valley Battalion events to include: Ranger Buddy, Northern Warfare Challenge, Norwegian Foot March, German Armed Forces Badge Competition and the Military Ball.

Spring.

### **MIL SCI 183. Military Conditioning. 1 Credit.**

Students participate in the United States Army's military conditioning and fitness program designed to develop both individual fitness and the leadership skills and knowledge essential to the management of an effective organizational physical fitness program. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

Fall and Spring.

### **MIL SCI 201. Basic Leadership and Management I. 3 Credits.**

Students learn how to resolve ethical problems by applying leadership theory and principles. Students learn self-development techniques such as the importance of stress management, time management and the ability to solve problems. Lastly, students apply communication theory and skills in a leadership study focusing on problem solving. The lab applies basic leadership theory and decision making during practical exercises in a field environment. Students continue to develop basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101 and Mil Sci 102

Fall Only.



**MIL SCI 202. Basic Leadership and Management II. 3 Credits.**

Students focus primarily on leadership with an extensive examination of the unique purpose, roles and obligations of commissioned officers. Students also focus, in detail, on the origin of our institutional values and their practical application in the decision-making process and leadership theory. Students use case studies to learn the Army's ethical decision-making process. The lab continues to apply basic leadership theory and decision making during practical exercises in a field environment. Students continue to develop basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101 and Mil Sci 102

Spring.

**MIL SCI 301. Advanced Leadership and Management I. 4 Credits.**

Students are introduced to the Leader Development Program that will be used to evaluate their leadership performance and provide developmental feedback for the remainder of their cadet years. Cadets are taught how to plan and conduct individual and small unit training, as well as basic tactical principles. Cadets will also learn reasoning skills and the military specific application of these skills in the form of the Army's troop. The lab reinforces small unit tactical training while employing the troop leading procedure to accomplish planning and decision-making. Students continue to learn basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101, 102, 201, and 202

Fall Only.

**MIL SCI 302. Advanced Leadership and Management II. 4 Credits.**

The course focus is doctrinal leadership and tactical operations at the small unit level. Students are provided opportunities to plan and conduct individual and collective training for Army operations. Synthesizing training, leadership and team building is the primary focus. Upon completion, students possess the fundamental confidence and competence of leadership in a small unit setting. The lab continues reinforcing small unit tactical training while employing the troop leading procedures to accomplish planning and decision-making. Students also continue basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101, 102, 201 and 202

Spring.

**MIL SCI 401. Applied Leadership and Management I. 4 Credits.**

This course concentrates on leadership, management and ethics to begin the final transition from cadet to lieutenant. Students focus on attaining the knowledge and proficiency in several critical areas they need to operate effectively as Army Officers. These areas include coordinating activities with staff, counseling theory and practice within the "Army Context," training management and ethics. Students develop and possess the fundamental skills, attributes and abilities to operate as competent leaders in a cadet battalion. They must confidently communicate to subordinate cadets their preparedness to shoulder the responsibilities entrusted to them.

P: Mil Sci 301 and Mil Sci 302

Fall Only.

**MIL SCI 402. Applied Leadership and Management II. 4 Credits.**

Students learn the legal aspects of decision-making and leadership. Instruction introduces the student to the organization of the Army from the tactical to the strategic level. Students learn administrative and logistical management focusing on the fundamentals of soldier and unit level support. Practical exercises require the student, both individually and collectively, to apply their knowledge to solve problems and confront situations commonly faced by junior officers. The lab continues to sharpen the students' leadership skills. Students normally change leadership positions to hone their skills, attributes and abilities as leaders. Again, they must confidently communicate to subordinate cadets their preparedness to shoulder the responsibilities entrusted to them.

P: Mil Sci 301 and Mil Sci 302

Spring.

**MIL SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

## Pharmacy

UW-Green Bay offers courses satisfying requirements for admission into a professional program in pharmacy. There are three schools in Wisconsin: UW-Madison, Concordia University, and MCW School of Pharmacy.

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 Human Biology Department. (<https://www.uwgb.edu/human-biology/>)

## 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 Biology Department (<https://www.uwgb.edu/biology/>).

## Undergraduate Course Descriptions

### Accounting (ACCTG)

#### Courses

##### **ACCTG 201. Principles of Financial Accounting. 3 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, and financial statement analysis. Ethical considerations and analysis of company statements are integrated into the course.

P: 15 credit hours with sophomore standing recommended

Fall and Spring.

##### **ACCTG 202. Principles of Managerial Accounting. 3 Credits.**

The use and understanding of management accounting information for planning, control, performance evaluation, decision making; product costing using traditional and activity based costing techniques, just-in-time, cost-profit-volume relationships, budgeting, variance analysis, decentralization, relevant costing, and ethics.

P: ACCTG 201 and sophomore standing.

Fall and Spring.

##### **ACCTG 297. Internship. 1 Credit.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit; may be taken 3 times for a total of 3 credits. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

##### **ACCTG 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.

**ACCTG 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**ACCTG 301. Intermediate Accounting I. 3 Credits.**

The course is the first of three intermediate accounting courses. Focus is on financial accounting theory, concepts, principles and procedures relating to the measurement and reporting of cash, receivables, inventories, and property, plant, and equipment and intangibles. Review and deep understanding of the full accounting cycle including journal entries, adjusting and closing entries, trial balance, and preparation and understanding of the balance sheet, income statement, statement of comprehensive income, and statement of cash flows.

P: ACCTG 201 with at least a "BC" grade and an overall minimum GPA of 2.5

Fall and Spring.

**ACCTG 303. Seminar in Accounting Professionalism. 2 Credits.**

Seminar in Accounting Professionalism is designed to familiarize prospective accounting majors with their profession. Topics will include various career paths in accounting, professional demeanor, and professional ethics.

P: Acctg 201 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall Only.

**ACCTG 313. Intermediate Accounting II. 3 Credits.**

The course is the second of three intermediate accounting courses. Emphasis is on developing financial statements that clearly and accurately depict a company's performance. Focus is directed on revenue recognition, investments, current liabilities, bonds, and leases.

P: ACCTG 301 with at least a BC grade 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 BC grade and an overall minimum GPA of 2.5; REC: ACCTG 313.

Spring.

**ACCTG 316. Governmental and Nonprofit Accounting. 3 Credits.**

Recommended for students planning to take the CPA exam. 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. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: ACCTG 301 with at least a C grade and an overall minimum GPA of 2.5

Fall Only.

**ACCTG 323. Intermediate Accounting III. 3 Credits.**

The course is the third of three intermediate accounting courses. Emphasis is on developing financial statements that clearly and accurately depict a company's performance. Focus is directed on accounting for income taxes, pensions and other postretirement benefits, share-based compensation and EPS, accounting changes and error corrections, and an in-depth review of the statement of cash flows.

P: ACCTG 301 with at least a BC grade and an overall minimum GPA of 2.5. REC: ACCTG 313

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 201 with at least a C grade and an overall minimum GPA of 2.5

Fall Only.

**ACCTG 411. Accounting Information Systems. 4 Credits.**

Principles of systems design, emphasizing organizational structure; internal control; flow charts and the impact of people on systems studies; systems requirements of the procedural areas of accounting systems, such as cash, purchasing, inventory management, sales, and billing.

P: ACCTG 202 with at least a BC grade; ACCTG 301 with a grade of C or higher; 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. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: ACCTG 301 with a grade of BC or higher; ACCTG 411; and an overall minimum GPA of 2.5

Spring.

**ACCTG 413. Income Tax Practicum (VITA). 3 Credits.**

Students will work in the community to prepare tax returns for students, low income individuals and families, and the elderly.

P: ACCTG 201 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5; REC: ACCTG 410  
Spring.

**ACCTG 414. Cost Accounting. 4 Credits.**

Expands and broadens the cost accounting concepts and methods presented in ACCTG 202. The class includes accounting for Process and ABC product costing systems, standard costing, variance analysis, Balanced Scorecard and strategy measurement, inventory costing and management, cost allocations, quality, target costs and transfer pricing.

P: ACCTG 202 with at least a BC grade and an overall minimum GPA of 2.5. REC: MATH 260 or BUSAN 220  
Spring.

**ACCTG 415. Advanced Income Tax Theory and Practice. 3 Credits.**

Recommended for students planning to take the CPA exam. 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. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: ACCTG 301 and ACCTG 410 with at least a C grade and an overall minimum GPA of 2.5  
Spring.

**ACCTG 423. Advanced Income Tax Practicum (VITA). 3 Credits.**

This is a service learning course working in the community that provides free tax preparation for students, low income individuals and families, and the elderly, in conjunction with the IRS. Students apply their knowledge of tax law to the preparation and e-filing of advanced income tax returns. Advanced students also review the work of undergraduate preparers, and assist in the supervision and training of undergraduate preparers. This course is graded pass/no pass only.

P: ACCTG 410 and ACCTG 413, and an overall minimum GPA of 2.5  
Spring.

**ACCTG 452. Accounting Data Analytics. 3 Credits.**

Accounting analytics develops new insights and understanding of financial and non-financial performance by examination of large data sets pertaining to past financial and non-financial information and events. This course is intended to provide students with an understanding of data analytic thinking and terminology as well as hands-on experience with data analytics tools and techniques. Students should leave this course with the skills necessary to translate accounting and business problems into actionable proposals that they can competently present to managers and data scientists.

P: ACCTG 301 with at least a BC grade; BUSAN 220 or MATH 260 or PSYCH 205; and an overall minimum GPA of 2.5  
Fall Only.

**ACCTG 460. Accounting Capstone. 3 Credits.**

The accounting Capstone course focuses on applying and synthesizing accounting concepts to make sound financial decisions. Accounting concepts from financial accounting, cost accounting, accounting information systems, government and non-profit accounting, auditing, and taxation will be considered. Students will participate in the discussion of current and emerging accounting issues. Students will analyze and research complex accounting issues and conduct financial statement analysis to make recommendations for various business situations. The course is conducted in a seminar format through case studies and dialogues with local accounting professionals. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: ACCTG major with an overall minimum GPA of 2.5, senior standing, including at least 18 credits from accounting courses. REC: ACCTG 202 and ACCTG 301  
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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Overall minimum GPA of 2.50  
Fall and Spring.

**ACCTG 496. Project/Research Assistantship. 1-6 Credits.**

The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: jr st.

Fall and Spring.

**ACCTG 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: soph st and major/minor in Acctg, and an overall minimum GPA of 2.5.

FSS.

**ACCTG 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript. Course is repeatable for credit.

P: Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

**ACCTG 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Anthropology (ANTHRO)

### Courses

**ANTHRO 100. Varieties of World Culture. 3 Credits.**

The variety of ways of life that exist in the world and the concepts of culture, cultural relativity, and ethnocentrism. Representative case studies of world cultures are considered.

Fall and Spring.

**ANTHRO 150. Food Culture & Identity. 3 Credits.**

Food is the very core of life and one of the most culturally prescribed areas of human experience. This course will study the role of food in human history, and the biocultural construction of what is classified as food. We will examine the meaning of food across cultures with particular attention to how cultural and ethnic (e.g. Asian American, Native American) identities are associated with particular types of food. Rituals, religions and family celebrations, and secular holidays all include the deliberate preparation, serving and sharing of food (or abstinence from food). We will explore food consumption and health, the gendered dimension of food, and the social hierarchies and power relations associated with the commodification of food. Class projects are designed to connect the student to various community and ethnic groups through the study of farmer's markets, food banks, stores and restaurants. We will think about food in new and provocative ways and in the process practically apply theoretical concepts.

**ANTHRO 250. Women in Cross-Cultural Perspectives. 3 Credits.**

Study of women in a variety of cultures around the world, both past and present. Includes consideration of the sexual division of labor, marriage systems, child rearing, relationships between men and women, systems of myth and ideology concerning women's roles, and the effects of socio-economic development and rapid social change. Not recommended for first-semester students.

**ANTHRO 291. Selected Topics in Anthropology. 3 Credits.**

A specific topic in an instructor's area of special competence. When offered, the particular topic is indicated in the campus timetable. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: Previous Anthropology course or cons. instr.

**ANTHRO 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript. Course is repeatable for credit.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**ANTHRO 304. Family, Kin, and Community. 3 Credits.**

A cross-cultural comparison of the form and function of such social institutions as marriage and the family; age, sex and kin groups; task groups; caste and class.

P: Junior standing REC: Anthro 100

Fall Only.

**ANTHRO 306. Environmental Anthropology. 3 Credits.**

This course focuses on the complex relations between people and their environment. Environmental anthropology has become more important since the 1990s due to issues like climate change. The course addresses the ways a population affects the environment and how these relations influence the social, economic, and political life of a culture. The topics covered in this class are particularly relevant in an era bombarded with concerns about environmental degradation. Environmental anthropology, utilizing research methodology of the discipline, uses a multidisciplinary and cross-cultural approach in a search for sustainable solutions to problems.

P: Anthro 100 or consent of instructor

Fall and Spring.

**ANTHRO 307. Anthropological Theory. 3 Credits.**

Explores the historical contexts of the development of theory in anthropology in the attempt to define and understand human biological, linguistic, social and cultural universals and variations. The major schools of anthropological theory are studied by reading and discussing original 19th and 20th century anthropological texts.

P: ANTHRO 100

Spring.

**ANTHRO 314. Cultures of the World. 3 Credits.**

Ethnographic survey of the world's peoples and their cultures. Major regions of the world considered in an attempt to outline the variety, richness, significance and persistence of cultural traditions.

P: Junior standing or consent of instructor.

**ANTHRO 320. Myth, Ritual, Symbol and Religion. 3 Credits.**

Mythology, ritual, and symbolism in the belief systems of a variety of cultures around the world; a survey of anthropological theory relating to belief systems.

P: jr st and Anthro 100.

Fall Only.

**ANTHRO 348. Economic Anthropology. 3 Credits.**

Economic Anthropology explores human engagement in systems of production, distribution, and consumption of goods. This course surveys the ways in which economic activities are enmeshed in local cultural rituals and obligations and form the basis of global economic exchanges. Students will examine a variety of past and contemporary economies at the local (subcultures including minority groups within the United States) as well as global level.

**ANTHRO 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**ANTHRO 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit.

P: so st; and Anthro 100, 210 or 215.

Fall and Spring.

## Arabic (ARABIC)

### Courses

**ARABIC 101. Introduction to the Arabic Language I. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Arabic.

Fall Only.

**ARABIC 102. Introduction to the Arabic Language II. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Arabic.

P: Arabic 101 or 1 year h.s. or 1 semester college Arabic.

Spring.

**ARABIC 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit.

P: jr st.

# Art (ART)

## Courses

**ART 101. Tools, Safety, and Materials. 1 Credit.**

Acquaints students with a wide range of materials and safe working practices and methods.

Fall and Spring.

**ART 102. History of the Visual Arts: Ancient to Medieval. 3 Credits.**

Survey of the visual arts: Paleolithic 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. Comprehensive exploration of the elements and principles of 3D design in a studio environment. Students will examine the language of three-dimensional form, structure, and space. This course develops personal expression using a variety of themes and subject matter by ordering three-dimensional space through basic materials.

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: None. REC: ART 202

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, ART 106, degree-seeking student. REC: ART 105 and ART 107.

Fall and Spring.

**ART 230. Introduction to Ceramics. 3 Credits.**

Survey of various ceramic forming and firing processes, stylistic approaches; traditional and contemporary aesthetics, and history of ceramics.

P: none: REC: Art 105 and 106 and 107.

Fall and Spring.



**ART 235. Introduction to Woodworking and Furniture Design. 3 Credits.**

Students explore a variety of woodworking processes, from use of hand tools to basic use of machines. Focus is placed on the student's ability to build technical skills and on aesthetic approaches to using wooden materials.

P: degree-seeking student. REC: ART 105, 106, and 107

Fall and Spring.

**ART 243. Introduction to Photography. 3 Credits.**

The creative process in photography is studied to develop visual perception and photographic design ability through active participation, photographic exercises, and discussions analyzing student work. Camera is required for course. Option 1: Digital SLR camera with viewfinder, interchangeable lenses, ability to manually adjust focus, aperture, shutter speed and white balance. Option 2: 35mm) film camera with the ability to function in all manual mode.

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.

Fall and Spring.

**ART 281. Art of the First Nations. 3 Credits.**

A 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.

Fall Only.

**ART 282. Black Art in America. 3 Credits.**

This class offers a general survey of the arts created black Americans from the 17th century to the 21st century. The historical, social, and racial contexts in which the arts were, and are, produced will be examined throughout the semester.

Spring.

**ART 284. Queer Art & Cultures. 3 Credits.**

This class offers an examination of the arts produced by LGBTQ+ communities throughout time and in varying locations throughout the world. Special emphasis will be placed on understanding the social and cultural contexts in which these arts were produced.

Spring Even.

**ART 295. Professional Practices in Art. 3 Credits.**

Exploration of successful habits and practices of the contemporary artist. This course will highlight techniques in ideation, organization, and multiple modes of presentation and documentation. Emphasis will be placed on professional opportunities such as career choices, juried exhibitions, conferences, workshops, graduate school, artist residencies, grants, and more.

P: Declared Major or Minor in Art or Design. REC: One art studio course

Fall Only.

**ART 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.

**ART 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**ART 302. Intermediate Drawing. 3 Credits.**

Investigation of drawing processes and structures in two-dimensional media; includes drawing the human figure; drawing techniques in black, white, and color media.

P: Art 105, 106 and 107.

Fall Only.

**ART 304. Figure Drawing. 3 Credits.**

Exploration of the figure/body as concept, expression, structure, and subject matter in drawing media. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: Art 105, 106, 107; REC: Art 210

Spring.

**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 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, degree-seeking student.

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 230, Degree Seeking. REC: ART 105, 106, 107

Fall and Spring.

**ART 335. Intermediate Woodworking & Furniture Design. 3 Credits.**

This course is designed to provide an in-depth concentration on wooden materials and technique through creating functional furniture projects. Historical and contemporary issues in furniture design are discussed through lectures, slide presentations and critiques, and students are introduced to a wide variety of functional forms. Students explore structural system and appropriate joinery in furniture design. Preliminary drawings, both small and full scale, are required.

P: ART 235, degree-seeking student

Spring Even.

**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: Degree-seeking students only. REC: 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. Course is repeatable for credit; may be taken 3 times for a total of 9 earned credits.

P: Degree-seeking students only; 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, ART 106, ART 107 and ART 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. Course print techniques rotate semester by semester to allow a deeper exploration into particular areas. Student responsibilities include readings, discussions, one presentation, and print creation.

P: ART 105, ART 107 and ART 270. REC: ART 302, ART 304

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, ART 107; and either ART 270 or ART 243 or DESIGN 231

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.

Fall Even.

**ART 377. Lithography. 3 Credits.**

Concept development integrated with lithography process including: Traditional stone lithography, plate lithography, waterless and photo litho plate lithography, and "mokuhanga" (lithography on wood plates) using hand-drawn images and digital/photo-based images.

P: Art 105, 106, 107 and 270.

Fall and Spring.

**ART 379. Women, Art and Image. 3 Credits.**

Examines the impact women have made on art historically as of artists, muses, models, dealers, benefactors and critics with emphasis on images of women in visual culture, deconstructing notions of identity, others and beauty in contemporary society and in the past.

P: jr st; REC: Art 202 or WOST 241

Spring Odd.

**ART 380. History of Photography. 3 Credits.**

This course surveys the major historical, technical, conceptual and theoretical movements within the history of fine art photography. Students will learn photography's role in reflecting and shaping the cultural, social, political, economic, and scientific contexts from 5th century B.C.E. to the present.

P: Junior standing

Fall Odd.

**ART 381. Art of the First Nations. 3 Credits.**

An upper-level survey of the arts of the First Nations peoples of North America. The historical and cultural contexts in which Native American arts were, and are, produced will be examined. Modern and contemporary arts will be incorporated throughout the semester.

P: junior standing

Fall Odd.

**ART 382. Precolumbian Art of Mesoamerica. 3 Credits.**

An upper-level survey of the Precolumbian art of Mexico and Central America. The course will examine the art and culture of the major civilizations in the region including the Olmec, Zapotec, Teotihuacan, Maya, Toltec, Mexica (Aztec), and the West Coast chiefdoms. While form and technique will be covered, the principal emphasis will be upon understanding the differing contexts (both religious and secular) in which art was created in this region.

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 401. Senior Exhibition Seminar. 3 Credits.**

Capstone course for senior Bachelor of Arts (BA) students in the Department of Art & Design. Students prepare their thesis project with mentorship from peers and faculty members. Focus is placed on preparing students for senior show through in-progress critiques, instruction in gallery/museum presentation methods, and verbal and written presentations of work. Students will work together in small groups to organize the components of the Senior Show at the end of the semester. Senior Standing and Special Permission required

P: Declared Major or Minor in Art or Design, Senior Standing and Special Faculty Permission.

Spring.

**ART 402. Advanced Drawing. 3 Credits.**

Development of personalized imagery with continuing conceptual, formal, and technical exploration; encourages reciprocal influence of studio areas and learning experiences. 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

Fall and 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 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, degree-seeking student

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, Degree Seeking

Fall and Spring.

**ART 435. Advanced Woodworking & Furniture Design. 3 Credits.**

After exploring the boundaries of woodworking at the intermediate levels, students in this course develop a portfolio-quality body of work through intensive technical and aesthetic approaches to ceramics. Students develop skills for writing artist statement and proposals, as well as presenting their own work in a professional fashion. Course is repeatable for credit; may be taken 3 times for a total of 9 earned credits.

P: degree-seeking student, ART 235 and ART 335

Spring Even.

**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: Degree-seeking students only; ART 344

Fall and 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 373 or ART 375. REC: ART 105, ART 107, ART 302, ART 304

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 481. Advanced Topics in Art History. 3 Credits.**

An upper-level art history course with changing topics that will offer in-depth investigation of a particular period or subject within the history of art from a global perspective. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 credits.

P: 6 credit hours of art history

Fall Only.

**ART 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

P: Cumulative GPA 2.75 or above; Declared Art Major; Minimum 6 credits upper level coursework in specified studio area; Permission of Supervising Faculty Member; ART 101

Fall and Spring.

**ART 496. Project/Research Assistantship. 1-6 Credits.**

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

P: jr st.

**ART 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; may be taken for a total of 12 earned credits. No more than 3 credits may be used to meet requirements for a major or minor.

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 255. Professional Perspectives in the Arts. 3 Credits.**

An introduction to the language and professional culture of the visual and performing arts, including direct experience of art forms and comparative studies of the elements and structural principles employed among professionals in the fine and performing arts. Students can expect to develop visual/aesthetic literacy and articulate informed responses to a variety of art forms, in addition to learning how working professionals survive and thrive in our economy's growing Arts and Culture sector.

FSS.

**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 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**ARTS MGT 354. Managing Arts and Cultural Organizations. 3 Credits.**

An overview of the field of arts management with an emphasis on not-for-profit arts and cultural organizations and the role of the professional manager within the field, including governance, planning, assessment, audience development, fund-raising and advocacy.

P: Arts Mgt major or minor or permission by instructor. REC: Arts Mgt 261 or Arts Mgt 257

Spring.

**ARTS MGT 355. Funding and Financial Issues in the Arts. 3 Credits.**

Investigation of a variety of financial issues, including earned and contributed income, sponsorships, foundations and grants; introduction to standard budget and accounting terminology and principles as applied in arts management.

P: Arts Mgt 354.

Fall Only.

**ARTS MGT 356. Promoting the Arts. 3 Credits.**

Approaches to promoting the arts, developing audiences through marketing, using various public relations and advertising tools and techniques.

P: Arts Mgt 354.

Spring.

**ARTS MGT 357. Gallery & Museum Studies. 3 Credits.**

Standards, practices and methods of the museum and art gallery profession: planning, promotion, and publicity; development of educational materials and programs; exhibition design and installation; proper handling and treatment of works of art and historical artifacts. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

P: ARTS MGT major or minor. REC: Arts Mgt 257

Fall and Spring.

**ARTS MGT 455. Practicum in Arts Management. 3 Credits.**

Practical work in completion of student-directed arts management projects, working both in teams and individually. Projects may deal with marketing, audience analysis and development, funding, and/or educational aspects of arts management.

P: Cons of instr. Rec: Arts Mgt 355 and 356.

Fall and Spring.

**ARTS MGT 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**ARTS MGT 480. Arts Management Seminar. 1 Credit.**

Exploration of issues pertinent to arts management using research, case studies and practical applications. Course is repeatable for credit; may be taken 6 times for a total of 6 credits.

P: Arts Mgt 354; Arts Management Maj/Min

Fall and Spring.

**ARTS MGT 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

**ARTS MGT 496. Project/Research Assistantship. 1-6 Credits.**

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

P: jr st.

**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 102. Introduction to Living Systems: From Genes to Ecosystems. 3 Credits.**

An introduction to the fundamental principles of living organisms. Includes cell and tissue structure, growth, metabolism, reproduction and inheritance, classification, evolution and ecology.

Fall and Spring.

**BIOLOGY 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman

Fall Even.

**BIOLOGY 200. Principles of Biology Discussion: Cellular and Molecular Processes. 1 Credit.**

This discussion course is designed to supplement the concepts presented in BIOLOGY 201. Activities will focus on deeper exploration of the biology of organisms at the molecular and cellular level and will emphasize skills necessary for success in the introductory biology sequence.

P: Concurrent enrollment in BIOLOGY 201

Fall and Spring.

**BIOLOGY 201. Principles of Biology: Cellular and Molecular Processes. 3 Credits.**

Study of biological principles, focusing on macromolecules and biological chemistry, cellular structure and function, energy metabolism, gene expression, genetics, and cell division. This course is intended for science majors and is taught with the expectation that students have a solid background in biology and chemistry gained through prior classes taken at the high school or college level and/or an ACT Science Score of 24 or greater. For students without this background, it is strongly suggested that HUM BIO 102 or BIOLOGY 203 are taken before BIOLOGY 201, or that BIOLOGY 200 is taken concurrently.

P: CHEM 207 (or conc enrl) AND BIOLOGY 202 (or conc enrl). REC: ACT science score 24 or greater OR completion of AP Bio course OR completion of 4 science courses in HS (including a minimum of 2 Bio courses and 1 Chem course) OR conc enrl in BIOLOGY 200

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 concurrent enrollment) AND grade of C or better in BIOLOGY 201 (or concurrent enrollment).

Fall and Spring.

**BIOLOGY 203. Principles of Biology: Organisms 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: CHEM 207 or concurrent enrollment AND BIOLOGY 204 or concurrent enrollment

Fall and Spring.

**BIOLOGY 204. Principles of Biology Lab: Organisms 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: CHEM 207 or concurrent enrollment AND BIOLOGY 203 or concurrent enrollment.

Fall and Spring.

**BIOLOGY 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript. Course is repeatable for credit.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**BIOLOGY 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**BIOLOGY 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 306. 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.

**BIOLOGY 307. Cell Biology. 3 Credits.**

A study of the fundamental biological processes that occur within a cell and its normal environment. Topics include cellular molecules and metabolic processes; membranes and organelles; synthesis and regulation of macromolecules; protein sorting and transport, cytoskeleton; signal transduction, cellular interactions, cell cycle and growth of normal and neoplastic cells.

P: Biology 201 with at least a C grade; AND Chem 108 or 212 with at least a C grade; AND Biology 303 or Hum Biol 310

Fall and Spring.

**BIOLOGY 308. Cell Biology Laboratory. 1 Credit.**

A laboratory course examining the microscopic, biochemical and molecular approaches used to investigate cellular structure and function.

P: Biology 202 with at least a C grade; AND Chem 108 or 212 with at least a C grade; AND MATH 260 with at least a C grade; AND Biology 307 with at least a C grade or conc enr; AND Chem 207 or conc enr

Fall and Spring.

**BIOLOGY 309. Evolutionary Biology. 3 Credits.**

Patterns and processes of biological evolution and their significance for modern biology. Topics include the history of life, population genetics, speciation, and evolution in populations today.

P: Biology 201/202 with at least a C grade and either Biology 203 or Human Biology 240/241 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 203/204 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 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 323. Principles of Microbiology. 3 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 & BIOLOGY 202 with at least a C grade

Fall and Spring.

**BIOLOGY 324. Principles of Microbiology Laboratory. 1 Credit.**

Laboratory Course that accompanies BIOLOGY 323.

P: BIOLOGY 323 or concurrent enrollment AND CHEM 207 or concurrent enrollment

Fall and 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 & BIOLOGY 204 with at least a C grade or HUM BIOL 240 & HUM BIOL 241 with at least a C grade or HUM BIOL 222 with at least a C grade); OR transfer cse Biology 002; AND CHEM 207 or conc enr

Fall Only.

**BIOLOGY 341. Fish Biology and Ecology. 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: BIOLOGY 306

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, BIOLOGY 202, BIOLOGY 203, and BIOLOGY 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 & BIOLOGY 202 with at least a C grade) AND (BIOLOGY 203 & BIOLOGY 204 with at least a C grade or HUM BIOL 240 & HUM BIOL 241 with at least a C grade or HUM BIOL 222 with at least a C grade); 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.

Spring Odd.

**BIOLOGY 360. Early Life History of Fish. 4 Credits.**

This course covers the early life history of freshwater, estuarine, and marine fishes from reproduction through metamorphosis. It will also help students develop an understanding of the history and principles of aquaculture, including common culture systems, biotic and abiotic factors regulating success, and choice of species. Students will extensively cover topics such as: egg and larval development, metamorphosis, larval feeding, behavior, growth, predation and starvation, and factors affecting these processes. Fish larval ecology, factors determining recruitment and sampling methods will also be covered. The course will include a laboratory section where we will study both living and fixed gonads, eggs, larvae and juveniles from selected species.

P: None. REC: BIOLOGY 341 with at least a C grade

Spring Even.

**BIOLOGY 365. Aquatic Invertebrates. 4 Credits.**

An exploration of the biology, ecology and importance of freshwater invertebrates, with an emphasis on aquatic insects.

P: BIOLOGY 201 & BIOLOGY 202 with at least a C grade and BIOLOGY 203 & BIOLOGY 204 with at least a C grade

Spring Odd.

**BIOLOGY 370. Restoration and Management of Aquatic Ecosystems. 3 Credits.**

Field and laboratory techniques for fishery research and management. Principles of designing research projects, assessing and managing aquatic ecosystems. Students will learn the fundamentals of testing hypotheses, sampling fish, analyzing fishery data, reporting results in both written and oral forms, and defending their research and management decisions.

P: ENV SCI 102/103

Fall Odd.

**BIOLOGY 375. Conservation Genetics. 3 Credits.**

This course focuses on the application of genetic analyses tools and bioinformatics to management and recovery of species of interest. This course will include extensive use of public-domain genetic analysis programs to address general questions in wildlife and fisheries management. Throughout this course, students will gain an understanding of molecular markers and their application in a conservation context as well as methods of analysis.

P: BIOLOGY 303 or HUM BIOL 310

Spring 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 323 & BIOLOGY 324 or HUM BIOL 323 & HUM BIOL 326 or BIOLOGY 322 with at least a C grade; MATH 260 with at least a C grade; AND CHEM 207 or conc enr

Fall Only.

**BIOLOGY 407. Molecular Biology. 3 Credits.**

Molecular approaches to biological problems, emphasizing study of informational macro molecules. Topics include replication, control, expression, organization, and manipulation of genes; RNA processing; protein processing; transposons; oncogenes, growth factors; genetic control of development and the immune system.

P: Biology 303 with at least a C grade or Chem 330 with at least a C grade; REC: Chem 300 or 303.

Spring Odd.

**BIOLOGY 408. Molecular Biology Laboratory. 1 Credit.**

Molecular biology of nucleic acids and the techniques that form the basis of biotechnology. Topics include electrophoresis, restriction mapping, hybridization, plasmid analysis, and DNA cloning (recombinant DNA library construction, screening, and mapping).

P: Biology 407 or conc enr; and Chem 207 or conc enr

Spring Odd.



**BIOLOGY 449. Wetland Ecology. 3 Credits.**

This course explores the ecology and conservation of wetlands, including biological, physical, chemical and hydrological attributes of wetland ecosystems. The curriculum will survey major wetland types in both freshwater and marine environments, the general biogeochemical dynamics of wetland ecosystems, and the ecological diversity of wetland vegetation and fauna. Field trips and in-class exercises will provide training in the identification of wetland types and features, including biological and physical characteristics of wetlands in the western Great Lakes. A field project will focus on wetland delineation and assessment of wetland quality, including analysis of restoration methods and conservation management.

P: BIOLOGY 306 or consent of instructor

Spring Even.

**BIOLOGY 450. Ecological Restoration. 3 Credits.**

Overview of how ecological and biological processes can inform and guide restoration of degraded systems. What can the science of ecology bring to the practice of restoration? Exploration of case studies and on-the-ground field experiences.

P: BIOLOGY 306

Spring Even.

**BIOLOGY 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: BIOLOGY 306 with at least a C grade or consent of instructor

Fall Only.

**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. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

**BIOLOGY 496. Project/Research Assistantship. 1-6 Credits.**

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

P: Chem 207 and approval by faculty mentor

Fall and Spring.

**BIOLOGY 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**BIOLOGY 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript. Course is repeatable for credit.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**BIOLOGY 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

# Business Administration (BUS ADM)

## Courses

### **BUS ADM 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.  
Reserved for New Incoming Freshman  
Fall and Spring.

### **BUS ADM 201. Principles of Sustainability in Business. 3 Credits.**

This is an introductory course in sustainability in business. This course is intended to provide high-level concepts business managers are expected to know about sustainability. These concepts will include the triple bottom line of sustainability, carbon footprint, dangers of not paying attention to the environment and society while making business decisions.

P: Sophomore standing  
Fall and Spring.

### **BUS ADM 202. Introduction to Business. 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 205. Introduction to Hospitality and Tourism Management. 3 Credits.**

This course provides an overview of the hospitality and tourism industry, exploring key concepts, practices, and trends. Students will learn about various sectors within the industry, including lodging, food and beverage, travel, events, and attractions. Through case studies, interactive discussions, and practical applications, students will gain insights into the challenges and opportunities that shape the hospitality and tourism landscape.

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: Sophomore status  
Fall and Spring.

### **BUS ADM 297. Internship. 1-6 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. The course is repeatable for credit; may be taken 6 times for a total of 6 credits. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Min 2.0 GPA  
Fall and Spring.

### **BUS ADM 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.

### **BUS ADM 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

### **BUS ADM 305. Legal Environment of Business. 3 Credits.**

Laws affecting business, emphasizing the Uniform Commercial Code. Introduction to law and the legal process, contracts, agency, property, landlord-tenant and real estate laws, sales and consumer protection laws, secured transactions, negotiable instruments, corporation and partnership law, and estate and bankruptcy law.

P: Sophomore status and an overall minimum GPA of 2.5  
Fall and Spring.

**BUS ADM 306. Business Law. 3 Credits.**

Recommended for students planning to take the CPA exam. 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 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 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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5.  
Fall and Spring.

**BUS ADM 496. Project/Research Assistantship. 1-6 Credits.**

The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing 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; may be taken 12 times for a total of 12 credits. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing, 54 credits, and an overall minimum GPA of 2.50.  
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: Junior standing and an overall minimum GPA of 2.5  
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.

## Business Analytics (BUSAN)

### Courses

**BUSAN 220. Introduction to Business Statistics. 3 Credits.**

The course prepares students to examine descriptive statistics, sampling and sampling distributions. Students will become proficient in analyzing statistical data and interpreting descriptive statistics results.

P: Major or Minor from Austin E Cofrin School of Business  
Fall and Spring.

**BUSAN 230. Spreadsheet and Information Systems. 3 Credits.**

This course presents an overview of information concepts through a variety of quantitative problem-solving experiences using Microsoft Excel. Introductory business and statistical models are examined, as students identify appropriate ways to find, evaluate, and use the information for decision-making. The course also discusses the management of information and technology within organizational environments. Content explores the role of information and technology solutions in the management of operations and innovations.

Fall and Spring.

**BUSAN 320. Advanced Business Statistics. 3 Credits.**

This is an advanced course built on BUSAN 220. It revises the contents of BUSAN 220 and prepares students to do advanced statistical analyses such as hypothesis testing, independent and paired t-tests, analysis of variance, regression, chi-square, and variance comparisons. The course will also expose students to statistical applications such as SPSS.

P: BUSAN 220, and an overall minimum GPA of 2.5

Fall Only.

**BUSAN 370. Data Science for Managers. 3 Credits.**

The course helps students understand the fundamentals of using data to support their decision-making and to visually represent data. Students will develop visualization and decision models designed to effectively communicate the meaning of complex data sets in a business context. Students will also learn how Business Intelligence (BI) is used by organizations to make better business decisions, use fewer resources, and improve the bottom line. Students will learn numerous in-demand technical skills

P: Sophomore standing and an overall minimum GPA of 2.5

Fall and Spring.

**BUSAN 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: BUSAN 230 or Business Analytics Emphasis and an overall minimum GPA of 2.5

Fall and Spring.

**BUSAN 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 major or minor or ACCTG major or minor and an overall minimum GPA of 2.5.

Fall Only.

**BUSAN 450. Database for Business Analytics. 3 Credits.**

Data is the new oil and is a key component of powering the AI and analytics revolution. Any analytical solution and decision model system is only as good as the data it is built upon. This course provides a comprehensive introduction to managing data using database management systems (DBMS). It consists of four main parts - database design, implementation, and use - focusing on the relational database model and introducing big data technologies such as NoSQL databases, data warehousing, and data lakes. The course will also discuss how better data integration using data lakes and other big data technologies can help break data silos and create a vibrant learning organization. Course is repeatable for credit; may be taken 2 times to earn a total of 6 credits. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Overall minimum GPA of 2.5

Fall Only.

**BUSAN 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 completing this course, the student will gain knowledge of data summarization and visualization, as well as descriptive and predictive data analytics in decision-making. The course covers various topics such as data description, data visualization, regression, classification, and other analytical models. Students will also be expected to learn how to apply analytical methods to business problems through performing hands-on examples and projects over the course of the semester using statistical packages such as R. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: BUSAN 220 or MATH 260; and BUSAN 230 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

**BUSAN 453. Machine Learning for Business Analytics. 3 Credits.**

Machine Learning is increasingly used in applications ranging from product recommendations and business forecasting to health care diagnosis and autonomous driving. This course is aimed at developing practical machine learning and data science skills. The course will cover different principal models used in machine learning and the types of problems to which they are typically applied. Students will learn to apply the principal models in machine learning to solve business problems. We will cover the main models from both supervised learning and unsupervised learning. Finally, we will also discuss the important question of model evaluation and selection, highlighting the biases and ethical issues inherent in machine learning.

P: Overall minimum GPA of 2.5

Spring.

**BUSAN 464. Data Visualization and Storytelling. 3 Credits.**

This course discusses the art and science of turning data into readable graphics. Students will learn to evaluate the effectiveness of visualization based on principles from graphic design, visual art, perceptual psychology, and cognitive science. Students will also learn to think critically about each design decision, such as choice of color and choice of visual encoding. Students will create their own data visualizations, and learn to use Tableau. Finally, students will learn to tell engaging data stories that clearly depict the points that they want to make through data visualization.

P: BUSAN 220 or MATH 260; BUSAN 230 and an overall minimum GPA of 2.5

Spring.

**BUSAN 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course.

HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5.

Fall and Spring.

**BUSAN 496. Project/Research Assistantship. 1-6 Credits.**

The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course.

HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5.

Fall and Spring.

**BUSAN 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; may be taken 12 times for a total of 12 credits. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing, 54 credits, and an overall minimum GPA of 2.50.

Fall and Spring.

**BUSAN 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: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

## Community Health Education (CHE)

### Courses

**CHE 310. Foundations of Community Health Education. 3 Credits.**

This course introduces students to information, perspectives, and competencies necessary to promote health in community, school, workplace, and health care settings. Key concepts related to health and health education will be covered including determinants of health, health equity and various physical, mental, and environmental health conditions. The course will cover the history of the profession, role of a community health educator, and Certified Health Education Specialist competencies.

P: sophomore standing

Fall Only.

**CHE 320. Methods and Strategies for Community Health Education. 3 Credits.**

This course covers health education and health behavior theories, methods and strategies to plan and implement health education and health promotion programs. Students will develop an understanding of learning styles, health literacy and communication to positively impact the norms and behaviors of individuals and communities. Certified Health Education Specialist competencies will be emphasized throughout. Students will work on projects involving social marketing and development of culturally relevant health education materials.

P: CHE 310

Fall Only.

**CHE 330. Program Planning and Evaluation in Community Health Education. 3 Credits.**

This course actively engages students in the process of program planning and evaluation. Student teams will work to assess community needs and resources of a population of interest and plan a health education or health promotion program. Professional literature and data collection will be used in the assessment process. Development of a program evaluation will be part of the process. Responsibilities and competencies of a health education specialist will be emphasized in all phases of this project.

P: CHE 310. REC: CHE 320

Spring.

**CHE 440. Capstone Seminar. 3 Credits.**

This course is designed as a culminating course that will engage students in synthesizing the skills and concepts they developed throughout the program curriculum. Students will apply the profession's areas of responsibility as well as ethical standards in a Capstone Portfolio. In addition, students will 1) review selected community health topics; 2) be introduced to current issues in community health education, public health, and population health; 3) be introduced to the employment, educational, and political environments in selected occupational settings; and 4) synthesize the concepts of the community health educator (assessment, planning, implementation, evaluation and research, advocacy, communication, leadership and management, ethics and professionalism).

P: CHE 310, CHE 320, CHE 330; concurrent enrollment in CHE 450

Spring.

**CHE 450. Community Health Education Field Practicum. 9 Credits.**

Students engage in practical fieldwork experience as a community health educator intern to utilize skills and knowledge acquired in previous courses. This fieldwork experience is designed to further develop skills in some, but not necessarily all, of the following areas: program planning, implementation, promotion and evaluation, oral and written communication, collaboration, and networking.

P: CHE 310, CHE 320, CHE 330; concurrent enrollment in CHE 440

Spring.

## Chemistry (CHEM)

### Courses

**CHEM 108. Survey of General, Organic and Biochemistry. 3 Credits.**

Chemistry and measurements; states of matter and changes of state; atoms and elements; ionic and molecular compounds; chemical reactions; solutions; acids, bases and pH; organic nomenclature; introduction to organic functional groups, physical properties and reactions; carbohydrate structure and function; amino acids and protein structure and function; lipid structure and function; nucleic acid structure and function.

P: MATH 101 with at least a C, or WPT-MFND score >465 and WPT-AALG score >525, and CHEM 109 or conc enr

Fall and Spring.

**CHEM 109. Survey of General, Organic, and Biochemistry Laboratory. 1 Credit.**

Laboratory Course that accompanies CHEM 108.

P: CHEM 108 or concurrent enrollment; CHEM 207 or concurrent enrollment

Fall and Spring.

**CHEM 168. Sustainability Chemistry. 3 Credits.**

Studying how chemistry and sustainability can relate to and improve our lives and our environment is a focus of this course. Specific topics that will be covered include scientific literacy, green chemistry, climate change, pollution, recycling, chemical usage in industry, best practices in sustainability, and more.

Fall and Spring.

**CHEM 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**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.

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 conc enr in MATH 104 or WPT-MFND score >465 and WPT-AALG score >525 and WPT-TAG score >525 & 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 or greater with at least a C grade or WPT-MFND score >465 and WPT-AALG score >525 and WPT-TAG score >525; and CHEM 211 and CHEM 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; and CHEM 207 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; and CHEM 207 or concurrent enrollment

Fall and Spring.

**CHEM 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**CHEM 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**CHEM 300. Bio-Organic Chemistry. 3 Credits.**

Those aspects of the field pertinent to students entering the biologically related disciplines: Basic organic chemistry, natural products and molecules important to biological systems.

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.**

Laboratory course to accompany Chem 300.

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.

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.

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.

P: CHEM 212 and CHEM 214 with at least a C grade; and CHEM 302 with at least a C grade or conc enr; and CHEM 207 or conc enr

Fall and Spring.

**CHEM 305. Organic Chemistry Laboratory II. 1 Credit.**

Basic and intermediate synthesis, basic and intermediate instrumental techniques in organic chemistry.

P: Chem 303 or conc enr; and Chem 304 with at least a C grade; and Chem 207 or conc enr

Fall and Spring.

**CHEM 306. Organic Chemistry Lab I & II. 2 Credits.**

Basic laboratory techniques for organic chemistry including commonly used synthetic methods, purification and characterization of reaction products.

**CHEM 311. Analytical Chemistry. 4 Credits.**

Theory and practice of chemical analysis. Statistics; gravimetric analysis; acid-base chemistry; precipitation, complexometric and redox titrations; electrochemistry; spectrophotometry; atomic absorption; emission methods; separation methods (gas/liquid chromatography).

P: Chem 212 and 214 with at least a C grade; and Chem 207 or conc enr

Spring.

**CHEM 320. Thermodynamics and Kinetics. 3 Credits.**

Temperature, heat and work, thermodynamic properties of gases, solids and solutions; homogeneous and heterogeneous equilibria; thermodynamics of electrochemical cells; statistical thermodynamics; calculation of thermodynamic properties; chemical kinetics.

P: CHEM 212 and CHEM 214 with at least a C grade; PHYSICS 104 or PHYSICS 202 with at least a C grade; and MATH 202 with at least a C grade

Fall Odd.

**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 CHEM 214 with at least a C grade; and PHYSICS 104 or PHYSICS 202 with at least a C grade; and MATH 202 with at least a C grade

Spring Even.

**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

Fall Odd.

**CHEM 323. Structure of Matter Laboratory. 1 Credit.**

Laboratory course to accompany Chem 321.

P: Chem 321 or conc enr and CHEM 207 or conc enr

Spring Even.

**CHEM 324. Biophysical Chemistry. 3 Credits.**

Biophysical Chemistry is a one-semester introductory to important physical chemistry principles and their relation to structure and energetics to biochemical structures. The course will also introduce techniques, equations related to certain phenomena, and data analysis and interpretation. The course is intended for chemistry majors declaring an emphasis in biochemistry.

P: CHEM 212 and 214 with at least a C grade and PHYSICS 104 or PHYSICS 202 with at least a C grade and MATH 202 with at least a C grade

Fall Even.

**CHEM 325. Biophysical Chemistry Laboratory. 1 Credit.**

Laboratory course to accompany CHEM 324.

P: CHEM 324 or conc enr and CHEM 207 or conc enr

Fall Even.

**CHEM 330. Biochemistry. 3 Credits.**

The purpose of this class is to provide students an introduction to the chemistry of living organisms, focusing on three main topics: (1) a foundation of the material required for all study of biochemistry, including an understanding of the basic chemical principles affecting life; (2) knowledge of the structure and function of biological macromolecules; and (3) the metabolic processes of energy utilization in cells. Topics covered include the nature and function of the important constituents of living matter, their biosynthesis and degradation; energy transformation, 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.

Fall and Spring.

**CHEM 331. Biochemistry Laboratory. 1 Credit.**

Laboratory course to accompany Chem 330.

P: CHEM 207 or conc enr; CHEM 330 or conc enr; and CHEM 305

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 and CHEM 207

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 Chem 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 CHEM 303 or CHEM 321

Fall Even.

**CHEM 423. Polymer Chemistry Laboratory. 1 Credit.**

Laboratory course to accompany CHEM 420

P: CHEM 420 or concurrent enrollment AND CHEM 207 or concurrent enrollment

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. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**CHEM 496. Project/Research Assistantship. 1-6 Credits.**

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

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.

Fall and Spring.

**CHEM 498. Independent Study. 1-6 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.**

COMM 102: Introduction to Communication is an entry-level course providing majors and non-majors with an overview of communication as a practical, personal, and professional discipline. The course not only provides a grounding in critical and strategic verbal and nonverbal communication forms, but also explores how meaning is made, the power of rhetoric, and engages with professional communication disciplines from positions of both career exploration and critical analysis. The course also provides an introductory overview of media and information literacy, ethics, and how changes in communication technology require adaptive decoding.

Fall and Spring.

**COMM 120. Introduction to Media Production. 3 Credits.**

Media are the tools by which producers communicate content in a mass communicated context. This course is an introduction to the production of different media content through an understanding of the process from conception to distribution. Topics covered in this course include audio and video production and podcast distribution.

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; cover letters, reports, business proposals, elevator pitches, brand storytelling, infographics and electronic communications.

Fall and Spring.

**COMM 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**COMM 205. Elements of Media. 3 Credits.**

Exploring contemporary commercial media; analyzing the business and creative forces behind motion pictures, television, radio and new media; examining regulatory and ethical issues; identifying visual components of persuasive media and the communication strategies involved.

Fall and Spring.

**COMM 220. Social Media Video Production. 3 Credits.**

Social media is a collection of online platforms allowing users to create and share content and ideas. This course provides theoretical and applicable information intended to get students producing video content for their own social media channels. Topics covered in this course include audio and video production equipment and social media analytics.

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.

Fall and Spring.

**COMM 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**COMM 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**COMM 302. News Reporting and Writing. 3 Credits.**

News Reporting and Writing includes a focus on digital and broadcast news reporting; researching, interviewing and writing various news stories for digital and electronic media, with an emphasis on accuracy, fairness, objectivity, and ethics. Students produce a TV news or sports story for the final project, including shooting video, interviews, along with recording voiceovers and video editing.

Fall and Spring.

**COMM 304. Sports, Media, and Society. 3 Credits.**

Sports are a massive part of our personal, social, and professional lives. This course navigates the often complex web of connections, issues, and relationships that characterize our relationship with sports, with a particular focus on communication and media-based issues. We will discuss the nature of fandom, the mythology of sports and how media professionals cover these issues. The course will also take a deeper look at special topics in sports, including the performance of race and gender in sports, the connection between sports and nationalism, and how we use sports as communication shorthand. This course is intended to develop your media literacy and critical thinking skills, as well as a keen appreciation of the aspects of sports that, while not often discussed in the mainstream, are vital to any professional involvement in sports education.

P: At least 15 credits in COMP SCI, INFO SCI or COMM

Fall Only.

**COMM 305. Principles of Public Relations/Corporate Communications. 3 Credits.**

An overview of topics, issues, concepts, and practices of public relations/corporate communications; individual and group case work.

P: at least 15 credits of core supporting courses in Communication

Fall and Spring.

**COMM 306. Radio Broadcasting. 3 Credits.**

Commercial and non-commercial radio as a communications medium and as a business enterprise: radio audiences, audience ratings, programming and program formats, news, advertising, promotion and sales. Students taking this course will participate in Radio GBX - UWGB's student radio station.

P: at least 15 credits of core supporting courses in Communication or instructor permission

Fall and Spring.

**COMM 307. Video Production. 3 Credits.**

Exploration of various uses of television as an informative, persuasive, and entertainment medium. Combines analysis of current uses of the medium in a professional context with practical experience in planning and producing a finished product for television.

P: at least 15 credits of supporting core courses in Communication

Fall and Spring.

**COMM 308. Information and Communication Technologies. 3 Credits.**

This course focuses on communication and information systems and technology. This is a survey of information and communication 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: sophomore standing

Spring.

**COMM 317. How to Create Great Social Media Content. 3 Credits.**

This course provides an overview of how to create great social media content. It will focus on: 1) understanding the basics of social media strategy, 2) learning how to craft great content, 3) analyzing content prior to launch, 4) successfully launching your content, and 5) evaluating social media results.

P: None. REC: Junior Standing

Fall and Spring.

**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 Even.

**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 Odd.

**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.

Fall Only.

**COMM 378. Documentary Video Production. 3 Credits.**

This course focuses on video production and editing techniques, with a specific focus on documentary storytelling and hands-on video experience outside of a studio setting.

REC: COMM 307

Spring.

**COMM 380. Communication Law. 3 Credits.**

Topics include: 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.

Fall and Spring.

**COMM 382. Public Relations Campaigns. 3 Credits.**

This course provides students with professional preparation for the strategy required for a public relations campaign. Students work with a nonprofit client on a real PR campaign, including providing a client overview, goals-objectives-strategies and tactics plan, and relevant deliverables. The PESO model is used to provide deliverables in paid, earned, shared, and owned media channels.

P: at least 15 credits of core supporting courses in Communication, COMM 305

Spring.

**COMM 390. Sports Writing, Promotion, and Public Relations. 3 Credits.**

This course is one of the practical components of the Sports Communication emphasis in the UWGB Communication department and is aimed at helping you develop hands-on skills in the promotion, media, and public relations branches of sports communication. In this class you will learn about the unique challenges of strategic communication in sport, from the organizational requirements of different sports communication outlets to the demands of marketing and public relations in the field as well as how to write interviews and other stories for sports media. You will also develop examples of different forms of strategic sports communication to add to your portfolio or demo reel.

P: 15 credits of Comp Sci, Info Sci or Comm

Spring.

**COMM 396. Advanced Reporting. 3 Credits.**

Development of advanced-level reporting, interviewing, writing, and editing of investigative stories, in-depth articles, and copy for the new world of online journalism.

P: at least 15 credits of core supporting courses in Communication, COMM 302

Fall Odd.

**COMM 425. Digital Journalism. 3 Credits.**

This course forms part of the Digital Fourth Estate (4e), UWGB's student news media. Digital 4e writers will learn to publish multimedia stories sourced from the UW campus and Brown County. Students will compose straight and feature news stories, learn to enhance publications with audio and video, and learn to navigate a newsroom environment. Student writers may work as a group and/or individually to serve as watchdogs on campus. Student writers will develop skills related to advanced-level reporting, conceptualizing, writing, and editing news stories suited for the digital journalism world.

P: none. REC: Sophomore standing

Fall and 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 (IS) or Information Technology & Data Science (ITADS)

Spring.

**COMM 470. Health Communication and Technology. 3 Credits.**

This course examines how 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.

Spring.

**COMM 474. Media Workshop. 3 Credits.**

Students become part of a hybrid newsroom in order to experience the worlds of online, social media, print journalism, and PR. Students will apply the skills learned in previous Journalism and PR courses: newswriting, feature writing, photojournalism, videojournalism, layout, management, editing, designing and implementing PR campaigns. Involves one-on-one work with professor and editors.

P: at least 15 credits of core supporting courses in Communication, COMM 302

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

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 communication 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 Only.

**COMM 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

P: Jr. st.

Fall and Spring.

**COMM 496. Project/Research Assistantship. 1-6 Credits.**

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

P: Jr. st. REC: Comm 200.

**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 145. 21st Century Citizen. 3 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. 3 Credits.**

This course will serve as a capstone to the GPS program first year experience, and will challenge students to apply the knowledge and skills they've gained thus far in GPS to address a real-world problem. Students will develop and implement a service learning project with their class over the course of the semester, and will continue the work to build knowledge and skills critical to personal and career success.

P: Participation in the GPS program

Spring.

**COMM SCI 148. GNSS Support Protocol. 1 Credit.**

One-credit course that will give incoming veterans an introduction to what to expect in the college environment, information about how to connect with university resources and local VA services, and to develop skills to be successful in their academic work at the university.

Fall Only.

**COMM SCI 150. GPS Tools for Success. 1 Credit.**

The Tools for Success course is designed to tie into the First Year Seminar Experience in impactful ways by executing the college on-ramp topics covered in your First Year Seminar. This work will support you to successfully navigate your first semester at UW-Green Bay. This one-credit course will enhance students' academic skills and personal organization.

Fall and Spring.

**COMM SCI 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**COMM SCI 200. Civic Scholars Practicum. 3 Credits.**

The Civic Scholars program prepares sophomore and transfer students to become civic professionals and citizen leaders through sustained interdisciplinary civic engagement and scholarship with a focus on the City of Green Bay. Through workshops in the fall semester, students will visit community organizations with specific sector focuses such as education, environment, arts, history, and more. The actual visits are preceded by learning about community partners and followed by guided reflections about the role and function of the particular organization in the greater Green Bay community and the need for its existence. The practicum prepares them for a Spring semester service internship and for completing the yearlong program with a certificate.

Fall Only.

**COMM SCI 283B. Academic Progress and Recovery. 1 Credit.**

This course assists students with developing the behaviors and skills necessary for achieving, maintaining, or restoring academic standing and realizing academic self-confidence and purpose. Students will learn and apply appropriate study and time management strategies, identify personal barriers to academic success, and develop strategies to overcome them. This course will require students to develop a personal success plan, engage with university services and resources, and reflect on their academic values and goals. This course is repeatable for credit; may be taken 2 times for a total of 2 earned credits.

Fall and Spring.

**COMM SCI 297. Internship. 1-6 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. The course is repeatable for credit; may be taken 6 times for a total of 6 credits.



**COMM SCI 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.

**COMM SCI 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**COMM SCI 301. Foundations for Social Research. 3 Credits.**

An integrated examination of the nature of science, theory and statistics. Emphasizes identifying and interpreting relationships between social phenomena by applying the conceptual tools provided in the course to specific problems.

P: PSYCH 205 or MATH 260 or BUSAN 220

Fall and Spring.

**COMM SCI 400. Civic Scholars Leadership Program Spring Community-Based Practicum. 2-3 Credits.**

The year-long Civic Scholars Leadership program prepares students to become civic professionals and citizen leaders through sustained interdisciplinary civic engagement and scholarship with a focus on the City of Green Bay. This course constitutes the second part to be completed during the Spring semester, upon completion of Comm Sci 200: Civic Scholars Fall Field Practicum. Through hands-on, on-site, self-reflective, and developmental community-based learning practicum in the spring semester, students will apply their knowledge of Green Bay community issues, solutions, and local organizations that are dedicated to these issues to gain practical skills and community connections in line with their career and civic engagement interests. Course continues development of students' professional and community-facing. Following their Spring semester community-based practicum, students will receive a certificate of completion for their involvement in the Civic Scholars Leadership program and be celebrated by both campus and Green Bay communities.

P: COMM SCI 200

Spring.

**COMM SCI 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.

Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: Approval of instructor

Fall Only.

**COMM SCI 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

**COMM 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.

Fall and Spring.

**COMM 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.

**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 120. Web Programming. 3 Credits.**

This course introduces the foundational concepts and tools for web programming required for developing interactive and visually engaging websites. It emphasizes the fundamental understanding of core web technologies: HTML for structuring content, CSS for styling and layout, and JavaScript for creating dynamic and interactive web pages, including current industry standards, processes, and techniques. Students will have the knowledge and skills to design, develop, and deploy static and interactive web pages, providing a strong foundation for further study in web development and programming.  
FSS.

### **COMP SCI 121. Green Computing for Environmental Sustainability. 3 Credits.**

Green Computing is a vital field focused on reducing the environmental impacts of computing technologies. This course introduces students to the principles and practices of sustainable computing, equipping them with skills to optimize energy efficiency, manage electronic waste, and promote responsible technology use. Through hands-on projects, students will explore renewable energy integration, analyze IT's carbon footprint, and propose solutions to sustainability challenges. This course emphasizes the ethical, scientific, and policy-driven aspects of Green IT.  
FSS.

### **COMP SCI 130. Computer Programming I. 3 Credits.**

This course introduces the foundational principles of computer programming. Students learn to analyze problems, design appropriate solutions, and implement small-scale programs using a modern high-level programming language. The course emphasizes problem-solving techniques, program structure, and the development of clear, efficient, and well-documented code. Students will gain hands-on experience in writing, tracing, and debugging programs. They will be introduced to common programming concepts such as variables, data types, decision-making constructs, loops, functions, arrays, and basic data structures. Good software engineering practices—modular design, code readability, testing, debugging, and documentation—are stressed throughout the course.  
FSS.

### **COMP SCI 140. Programming for Quantitative Problem Solving. 3 Credits.**

Python is a versatile and widely used programming language that offers valuable skills and knowledge for students from various disciplines. This course introduces Python programming language to develop skills in computational problem-solving and critical quantitative reasoning across various contexts. Topics include fundamental programming concepts of Python programming, including variables, data types, control structures (loops and conditionals), basic data structures such as lists, dictionaries, and sets, procedural programming, object-oriented programming paradigms, debugging, and best practices for writing efficient and readable code. No prior programming experience is required. Through hands-on coding exercises and projects, students will work with numerical data, solve quantitative problems, and communicate insights supported by data analysis.  
FSS.

### **COMP SCI 171. Technology, Ethics, and Society. 3 Credits.**

This course provides a foundational understanding of ethics, cybersecurity, and cyberspace protection. By integrating knowledge across fields, students will learn to identify and address ethical and security challenges, including data privacy and cyber threats. Emphasis is placed on developing key skills such as locating, evaluating, managing, utilizing, and citing information appropriately. Students will be equipped to apply ethical reasoning and cybersecurity strategies to make informed, responsible technological decisions, regardless of their discipline.  
FSS.

### **COMP SCI 181. Human-Centered Design. 3 Credits.**

This course introduces the principles and practices of Human-Computer Interaction (HCI), focusing on designing interactive systems that enhance user experience. Students will explore how to design, evaluate, and implement user-centered interfaces based on usability principles and scientific methods. Students will gain practical skills in gathering user data, designing and developing effective interaction designs for diverse applications such as mobile interfaces, web systems, and augmented reality, conducting usability testing, and evaluating user experience. No prior design or programming experience is required.  
FSS.

### **COMP SCI 191. Living and Learning with AI. 3 Credits.**

Artificial Intelligence (AI) revolutionizes our work, learning, and interaction with technology. This course introduces students to modern AI systems' scientific principles, emphasizing generative AI and other recent developments. Through hands-on experimentation and systematic investigation, students will learn to evaluate AI capabilities, understand their limitations, and critically assess their impact across various domains. No technical background is required. The course aims to equip students with the knowledge and skills to engage critically with AI technology, evaluate its outputs, and understand the broader implications for society.  
FSS.

### **COMP SCI 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.  
Reserved for New Incoming Freshman.



**COMP SCI 201. Introduction to Computing & Internet Technologies. 3 Credits.**

Introduction to the history of computing, overview of computers, how they work, and relevant applications, especially to web site creation. Introduction to procedural programming 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. This course includes both lecture and lab.

Fall and Spring.

**COMP SCI 203. Introduction to Python Programming. 3 Credits.**

This course introduces the students to how to design, write and debug computer programs using python along with programming best practices and the fundamental techniques used in the development of software applications using python. Topics include data representation and storage using python data types and variables, control flow via conditionals and loops, complex data structures (e.g., lists, sets, dictionaries, and tuples) and error handling. Students will learn procedural programming using custom functions, standard libraries, modules and packages, and object-oriented programming paradigms using class, objects, methods, and attributes. This course includes both lecture and laboratory.

Fall and Spring.

**COMP SCI 207. Programming in C. 3 Credits.**

A technical course in computing, algorithms, data representations, and problem solving in the C programming language. This course provides a brief introduction to the syntax of computer programming, data types and structures, fundamental control structures, algorithms, standard libraries, pointers, and the construction of function/procedure. Opportunity for extensive experience in designing, developing, and testing structured programs in C language. This course includes both lecture and laboratory

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 modern database management systems such as SQL Server and/or MySQL and includes group discussions. The course also introduces some advanced topics, including database security, data privacy, data analytics, and big data. Working knowledge of Microsoft Office suite and Windows is required for this course.

P: COMP SCI 201 with at least a C grade

Fall Only.

**COMP SCI 231. Introduction to IT Operations. 3 Credits.**

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

P: COMP SCI 201 with a grade C or higher

Fall and Spring.

**COMP SCI 240. Discrete Mathematics. 3 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 202 with at least a C grade

Fall and Spring.

**COMP SCI 251. Computer Systems Fundamentals. 3 Credits.**

This course introduces the foundational principles of computer systems, focusing on how hardware and software collaborate to execute programs and manage data. Students will study data representation, number systems, digital logic design, and the basics of computer organization. Topics include signed and unsigned integer representation, floating-point number representation, Boolean algebra, combinational and sequential circuits, Karnaugh mapping, etc. Hands-on exercises provide practical experience in understanding low-level program execution and system-level operations. This course builds the foundation for further computer architecture and systems studies.

FSS.

**COMP SCI 253. Digital Logic Fundamentals. 3 Credits.**

The course introduces digital electronics, the operation of logic gates, the theory of combinational logic circuits, Karnaugh mapping, encoders, decoders, multiplexers, the theory of sequential circuits, flip flops, registers, and counters.

Fall and Spring.

**COMP SCI 256. Introduction to Software Design. 3 Credits.**

Students will learn a language common to software design and be introduced to software design techniques. This includes the problem statement, solution design, program testing, implementation, debugging, and final documentation.

P: COMP SCI 207 with a C or higher OR be a declared IS/ITADS major

Fall and Spring.

**COMP SCI 292. Introduction to Mobile Platforms and Apps. 3 Credits.**

An introduction and survey to the world of mobile computing. Each student will design, develop and produce their own app. Topics covered will include areas such as models of mobile information, GPS services, social networking, casual gaming, networked games, business apps, and information gathering -- all from the perspective of mobile platforms.

P: COMP SCI 201 and COMP SCI 256 with at least a C grade in both.

Fall Only.

**COMP SCI 293. Cloud Computing. 3 Credits.**

This course introduces students to the core concepts and practical methods in designing, deploying, and using cloud computing services. Technical topics of cloud computing systems will be emphasized includes cloud infrastructures, platform architectures, cloud security strategies, cloud storage and management, virtualization, and cloud programming frameworks. The course provides students with example cloud service providers and use cases along with deployment strategies and evaluation criteria for various types of application domains.

P: COMP SCI 203 with C or higher; COMP SCI 221 with C or higher

Spring.

**COMP SCI 295. Special Topics. 1-3 Credits.**

Computer Science Special Topics is designed to provide access to additional learning in the area of software engineering. Topics include Algorithmic complexity, No-SQL, professional software development frameworks/libraries and additional Computer Science principles. Course is repeatable if topics differ; may be taken 3 times for a total of 9 earned credits.

**COMP SCI 297. Internship. 1-6 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit; may be taken 3 times for a total of 6 credits.

P: Cumulative GPA of 2.0 or higher

Fall and Spring.

**COMP SCI 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**COMP SCI 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**COMP SCI 316. Advanced Software Design. 3 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. This course includes both lecture and lab.

P: COMP SCI 256 with at least a C grade

Fall and Spring.

**COMP SCI 330. Computer Programming II. 3 Credits.**

This course introduces advanced programming skills and focuses on the core concepts of object-oriented programming (OOP) and design using a modern high-level language. Object-oriented programming represents the integration of software components into a large-scale software architecture. Topics include core OOP concepts, including encapsulation, inheritance, polymorphism, abstraction, interfaces, memory management, exception, overriding, and overloading. Practical applications will focus on design patterns principles and designing, implementing, testing, and debugging OOP-based software systems.

P: COMP SCI 120 and COMP SCI 130 with at least a C grade

Fall and Spring.

**COMP SCI 339. Web Programming. 3 Credits.**

This is a continuation of COMP SCI 201 and COMP SCI 293. Students will learn advanced web application development. Various languages and frameworks for client-side and server-side programming will be used. Full stack web development by browser, server, and database programming.

Spring.

**COMP SCI 340. Numerical Methods for Computer Science. 3 Credits.**

This course will introduce different numerical methods that can be used in practical applications. Topics will include: Introduction to a numerical analysis software, solution of linear equations, nonlinear equations, approximation of differentiation and integration, solution of differential equations, data fitting, and optimization.

Fall Only.

**COMP SCI 348. Computer Networks. 3 Credits.**

This course provides a foundational understanding of network systems, architecture, and protocol and their role in enabling communication in wired and wireless environments. Topics include the design and operation of modern networks, including the layered networking model (OSI and TCP/IP), physical and data link layers, IP addressing, routing and switching algorithms, transmission signals and media, congestion control, and error detection methods and security protocols. This course will prepare students for advanced networking, cybersecurity, and distributed systems studies.

P: COMP SCI 120 and COMP SCI 130 with at least a C grade

Fall and Spring.

**COMP SCI 351. Data Structures. 3 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. This course includes both lecture and lab.

P: COMP SCI 240 with a C or higher, and COMP SCI 316 with a C or higher

Fall and Spring.

**COMP SCI 352. Computer Graphics and Animation. 3 Credits.**

Basic techniques of computer graphics, such as point and line plotting, clipping and windowing using the OpenGL platform. Use of graphics hardware; construction of graphics packages. Basic animation techniques.

P: COMP SCI 240 with at least a C grade. REC: COMP SCI 371

Fall Odd.

**COMP SCI 353. Computer Architecture and Organization. 3 Credits.**

Historical development, instruction set architecture, assembly language, procedure call protocols, memory, cache, and bus organizations, comparison of processor architectures, I/O systems.

P: COMP SCI 253 with a C or higher.

Fall and Spring.

**COMP SCI 357. Theory of Programming Languages. 3 Credits.**

Comparison of several common languages and discussion of advantages and disadvantages of compiling and interpreting. Discussion of language design and syntax, data types, variables, constants, binding and scope of a variable and data handling procedure.

P: COMP SCI 316 with at least a C grade.

Fall Only.

**COMP SCI 358. Data Communication and Computer Networks. 3 Credits.**

Transmission media, analog and digital signals, modulation, compression, error detection methods, security and encryption protocols, Ethernet standards, TCP/IP protocols, routing algorithms, Internet and streaming applications.

P: COMP SCI 231 with at least a C grade, and COMP SCI 256 with at least a C grade

Spring.

**COMP SCI 361. Information Assurance and Security. 3 Credits.**

An exploration of the fundamentals of information assurance and security (IAS). The course will introduce the underlying concepts of IAS in context of today's society. It will explore the security & ethical issues in information and computing from the perspective of today's computing world. It will discuss the appropriate remedies and defense strategies in the wake of today's security threats and attacks. Class topics will focus on physical security, cyber security, network security and software security through lectures and hands on experiments. This course will be of interest to students, who wish to obtain an understanding of the basic principles and practices in IAS. It will cover the fundamental concepts in IAS necessary for understanding the threats to security as well as various defenses against those threats.

P: COMP SCI 358 with at least a C grade.

Fall Only.

**COMP SCI 362. Artificial Intelligence & Data Science. 3 Credits.**

This course introduces the foundational principles and techniques of Artificial Intelligence (AI) and Data Science (DS). Topics include data collection, cleaning, preprocessing, and visualization; essential data science methodologies (regression, classification, clustering, and artificial neural networks); problem-solving using search algorithms; knowledge representation, reasoning, machine learning basics, and natural language processing. Through hands-on projects, the course emphasizes real-world applications of AI in various domains with a broad overview of AI concepts and their practical use cases. Students will also explore the ethical implications of AI and gain practical experience implementing AI techniques.

P: MATH 320 and COMP SCI 351 with at least C grades in both

Fall Only.

**COMP SCI 368. Compilers. 3 Credits.**

The course introduces the theory and practice of compiler design. It covers the theoretical concepts of regular expressions and context-free grammar, scanning and parsing, semantic analysis, intermediate representations, and code generation, code transformation and optimization, and runtime systems.

Spring.

**COMP SCI 371. Advanced Object-Oriented Design. 3 Credits.**

Advanced object oriented design techniques in C++, including basic language elements (functions, controls, decision making etc), collection classes, class design and class relationships, class derivation, abstract classes, interfaces, static class members, object construction and destruction, inheritance and polymorphism. Additional topics also cover advanced C/C++ concepts such as pointers and pointer arithmetic, vectors, dynamic memory management, memory leaks, exception handling and operator overloading, templates and standard template library (STL). This course includes both lecture and lab.

P: COMP SCI 316 with at least a C grade.

Fall and Spring.

**COMP SCI 372. Software Engineering. 3 Credits.**

Design and programming techniques for large and complex data-driven projects, using C++. Design based on Design Patterns. Use of Software Engineering metrics and formal methodologies. Fundamentals of component-based software development and software deployment techniques.

P: COMP SCI 221 and COMP SCI 371 with at least a C grade for both

Spring.

**COMP SCI 373. Cloud Computing. 3 Credits.**

This course introduces students to the core concepts and practical methods of designing, deploying, and using cloud computing services. Technical topics of cloud computing systems will be emphasized, including cloud infrastructures, platform architectures, cloud security strategies, cloud storage and management, virtualization, and cloud programming frameworks. The course provides students with examples of cloud service providers, use cases, deployment strategies, and evaluation criteria for various application domains.

P: COMP SCI 330 and COMP SCI 348 with at least a C grade

Spring.

**COMP SCI 392. Introduction to Mobile Computing. 3 Credits.**

This course provides an introduction to the field of mobile computing, exploring the fundamental concepts, technologies, and applications that enable the use of mobile devices in modern computing environments. Students will learn about mobile systems' architecture and design principles, including hardware and software components, wireless networks, mobile operating systems, and application development. The course emphasizes hands-on experience with mobile application design, development, and deployment across various platforms such as Android and iOS. Additionally, the course will cover topics such as security, performance optimization, and mobile data management. By the end of the course, students will have the foundational knowledge necessary to develop mobile applications and understand the key challenges and trends in the mobile computing landscape.

P: COMP SCI 330 with at least a C grade

Fall Only.

**COMP SCI 421. Parallel & Distributed Computing. 3 Credits.**

An introduction to parallel and distributed computing using Python. Topics include synchronous and asynchronous programming, parallelism, distributed applications with Celery, and Python applications in cloud environments and HPC clusters. Students will gain practical experience developing, testing, and debugging distributed applications for scalable computing.

P: COMP SCI 351 and COMP SCI 353 with at least C grades

Spring.

**COMP SCI 450. Theory of Algorithms. 3 Credits.**

Design, analysis and comparison of algorithms; divide and conquer techniques, greedy method, dynamic programming and smart searching.

Applications to optimization with constraints and decision problems. Theory of computability including examples of NP-complete problems such as the "traveling salesman" problem.

P: COMP SCI 351 with at least a C grade, and MATH 202 with at least a C grade

Spring.

**COMP SCI 451. Database Systems and Big Data Processing. 3 Credits.**

This course covers advanced relational database concepts, data warehousing, and distributed database management systems. It introduces students to unstructured data and NoSQL databases and discusses the basics of real-time storage and processing of massive datasets using Hadoop ecosystems.

The course includes hands-on exercises with Hadoop ecosystem and SQL Server.

P: COMP SCI 221 with at least a C grade

Spring.

**COMP SCI 452. Operating Systems Using Linux. 3 Credits.**

Methods and philosophies behind management of computing resources, including: memory management, process management, scheduling, process signaling, process synchronization, mutual exclusion; interprocess communication, introduction to the Linux Operating System and environment, shell scripting, C programming, process management, and message passing.

P: COMP SCI 207 with at least a C grade, and COMP SCI 351 with at least a C grade

Spring.

**COMP SCI 464. Artificial Intelligence. 3 Credits.**

Introductions to the fundamental types of Artificial Intelligence (AI) and their practical applications, Problem Solving by Searching, Adversarial Search, Constraint Satisfaction Problem, Neural Networks, Machine Learning, Decision Trees, Computer Vision, Reinforcement Learning, Implications of the use of AI.

P: COMP SCI 203 with at least a C grade, COMP SCI 351 with at least a C grade, and MATH 320 with at least a C grade  
Fall Only.

**COMP SCI 465. Machine Learning. 3 Credits.**

This course introduces the fundamental principles and practical applications of machine learning, a field that enables computers to learn patterns from data and make decisions or predictions. Students will explore key topics such as supervised and unsupervised learning, model evaluation, and advanced techniques like ensemble methods and neural networks. Practical assignments and projects will provide hands-on experience using machine learning libraries like Scikit-learn, TensorFlow, and PyTorch. By the end of the course, students will be equipped to build machine learning models, understand current research, and address real-world challenges across various domains.

P: COMP SCI 362 with at least a C grade  
Spring.

**COMP SCI 466. Deep Learning. 3 Credits.**

This course provides a comprehensive introduction to deep learning, a subfield of machine learning that uses artificial neural networks to learn complex, hierarchical feature representations from raw data. Deep learning has revolutionized various fields, including computer vision, audio analysis, natural language processing, and decision-making, with applications ranging from speech recognition to autonomous driving. Students will explore the foundational principles, mathematical concepts, and practical implementations of deep learning. Topics include optimization techniques like gradient descent and backpropagation, essential components such as convolutional and pooling layers, and widely used architectures like convolutional and recurrent neural networks. Hands-on programming assignments will familiarize students with deep learning frameworks such as TensorFlow, PyTorch, or Keras and prepare them to build and train neural network models. A final project will allow students to apply their skills to real-world problems of personal interest. By the end of the course, students will be equipped to tackle AI tasks, understand current research, and pursue advanced studies or careers in deep learning, a field that is increasingly essential in both academia and industry.

P: COMP SCI 362 with at least a C grade  
Fall Only.

**COMP SCI 468. Computer Vision. 3 Credits.**

This course provides a comprehensive introduction to computer vision, focusing on enabling machines to interpret and analyze visual information from the world. Students will explore the foundational principles, mathematical underpinnings, and cutting-edge techniques used in computer vision systems. Topics include image processing, feature extraction, object recognition, and advanced Deep Learning methods for vision tasks. Through hands-on programming assignments and projects, students will build practical skills to design, implement, and optimize computer vision applications. By the end of the course, students will be prepared to tackle real-world challenges in fields such as autonomous systems, medical imaging, and augmented reality. Hands-on programming assignments will familiarize students with Deep Learning frameworks such as TensorFlow, PyTorch, or Keras and prepare them to build and train neural network models. A final project will allow students to apply their skills to real-world problems of personal interest.

P: COMP SCI 362 with at least a C grade  
Fall Only.

**COMP SCI 470. Natural Language Processing. 3 Credits.**

This course provides an in-depth introduction to Natural Language Processing (NLP), the field of computer science focused on enabling machines to process and analyze human language. Students will explore rule-based and statistical methods for understanding text, speech, and language. Topics include text preprocessing, tokenization, language modeling, syntax, semantics, and advanced deep learning techniques such as transformers. Practical assignments and projects will provide hands-on experience with tools and libraries like NLTK, SpaCy, and Hugging Face. By the end of the course, students will be equipped to develop applications such as chatbots, sentiment analysis systems, and machine translation models.

P: COMP SCI 362 with at least a C grade  
Spring.

**COMP SCI 471. Software Security. 3 Credits.**

While different types of software play a major role in providing security, they are also a major source of security problems. Thus, the demand for secure and dependable software systems is acute due to the increasing use of cyber-physical systems. This course will introduce the students with the foundations of software security, important software vulnerabilities and attack vectors that exploit them. The list of topics will include software bugs, flaws, and vulnerabilities, attack patterns, attack vectors, threat modelling, software design security, operating system security, privilege escalation problem, common software vulnerabilities (e.g., buffer overflow, shellshock, format string), OWASP top 10, SQL injection attack, cross site scripting (XSS), code-review and secure coding practices.

Spring.

**COMP SCI 472. Network Security. 3 Credits.**

The goal of this course is to provide a technical introduction to data networks and network security. The Key concepts and technologies in data networks will be introduced, including layered architectures and topologies. The main elements in information technology networks will be detailed, including routers, switches, gateways, servers, workstations and storage devices. It will be followed by an introduction to network level attacks and various defense mechanisms. Students will learn to mount attacks and defend against them using a variety of software tools, monitoring tools and protocols. Finally, different network security topics will be covered, including encryption, authentication, firewalls and intrusion detection, security management tools and threat scenarios, security policies, legal and ethical issues in cyber and computer crimes.

Fall Only.

**COMP SCI 473. Digital Forensics. 3 Credits.**

This course examines the fundamentals of digital forensics, computer crimes, and the challenges of computer forensics. The course addresses a technical overview of tools, techniques, and methods used to perform computer forensics and investigation. Different incident and intrusion responses, emerging technologies, and future directions of digital forensics are presented with various implementation considerations.

P: COMP SCI 361 with at least a C grade or higher

Fall Only.

**COMP SCI 474. Game Engines. 3 Credits.**

This course provides students with an introduction to the theory and practice of video game programming. Students will participate in individual hands-on lab exercises, and also work together like a real game development team to design and build their own functional game using an existing game engine (e.g. Unity, Ogre).

P: COMP SCI 256 with at least a C grade.

Spring Odd.

**COMP SCI 475. Introduction to Cryptography. 3 Credits.**

This course introduces students to the underlying principles and mathematical foundations of cryptography. The course provides a brief introduction to classical and modern cryptography approaches includes symmetric and a symmetric cryptography, encryption, message authentication, hashing and public-key cryptography. Students will learn about cryptographic protocols and their applications to computer security.

Spring.

**COMP SCI 476. Ethical Hacking. 3 Credits.**

This course offers the basic knowledge of the landscape, key terms, and concepts that a security professional needs to know about hackers and computer criminals who break into networks, steal information, and corrupt data. The course addresses a technical overview of hacking: how attackers target cyber resources and the methodologies they follow. Different methods are most effective when dealing with hacking attacks, especially in an age of increased reliance on distributed devices, and are presented with various implementation considerations.

P: COMP SCI 361 with at least a C grade

Spring.

**COMP SCI 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**COMP SCI 490. Capstone in Computer Science. 3 Credits.**

This senior-level course provides a culminating experience in which students apply their acquired skills and knowledge across the computer science curriculum to design and implement a substantial project (e.g., software/security/AI). Preferably, they will work in teams to solve a real-world problem. The course focuses on aspects like project planning, development, documentation, and presentation while fostering a deep understanding of the subject matter and its practical applications and demonstrating proficiency in various technical and communication skills.

P: Must complete at least two (upper-level) electives with a C grade or higher

Fall Only.

**COMP SCI 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

**COMP SCI 496. Project/Research Assistantship. 1-6 Credits.**

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

P: jr st.

**COMP SCI 497. Internship. 3 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall Only.



**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.

## 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.

Fall and 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 107 and Design 131 with at least a C grade; REC: Art 105 or Art 243

Fall and Spring.

**DESIGN 236. 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 105, UR RE ST 100

Fall Only.

**DESIGN 238. Design Thinking for the Intentional Life. 3 Credits.**

This course provides a framework for intentionally developing a creative life. You will learn to harness and apply creative practices that are beneficial personally, academically, and professionally for skills related to problem-solving, decision-making, and working with other people. The framework is based upon Design Thinking and other methodologies from scholarly, professional and creative disciplines.

Spring.

**DESIGN 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**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 350. Typography. 3 Credits.**

Typography is an introduction to the art of visual communication: the visual realization of a most basic element of communication - the word. The history of typographic forms, principles of composition, and the expressive potential of type will be explored through reading, research, exercises, and design production. Sequential studies will follow the design process: problem-solving through exploration, experimentation, selection, critique, and refinement. Effectiveness of typographic design will be evaluated in terms of legibility, readability, and expression.

P: ART 107 and DESIGN 231

Fall and Spring.

**DESIGN 431. Graphic Design Studio III. 3 Credits.**

Advanced methods in design research, problem-solving, design theory and technology use applied in graphic design and visual communications. Perspectives on portfolio development and presentation.  
P: DESIGN 332 with at least a C grade.  
Fall Only.

**DESIGN 433. Advanced Studio. 3 Credits.**

Applying concepts and skills in advanced communications projects such as web design and epublication, filmmaking and storytelling. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 credits.  
P: Design 332 with at least a C grade or with consent of instructor.  
Fall and Spring.

**DESIGN 435. Design Arts Publication Workshop. 3 Credits.**

A comprehensive experience in the design and production of a magazine format publication from the early stages of design through to the finished printed product. Combines conventional design skills developed in the graphic communications studios and use of desktop publishing technology.  
P: jr st and DESIGN 332 with at least a B grade  
Fall and Spring.

**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 236  
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 438  
Spring.

**DESIGN 475. Professional Practice Capstone. 3 Credits.**

The design professional practice capstone is a lecture/studio and critique class that provides an opportunity for design majors in their last year to develop a capstone project and professional portfolio. The capstone project can consist of independent research or a client work design practicum, and includes a public presentation of the work. In addition, students will develop and refine a body of design work that constitutes a professional graphic design portfolio. The course assignments will give students guidance in improving their current student portfolio pieces, developing new portfolio pieces, and presenting their work, and themselves, to prospective employers in a compelling way. There will be design school graduate guest speakers who are working as professional designers. They will share their portfolio and job search strategies, and interviewing experiences. The learning environment will consist of guidance with client or independent design work, one-on-one tutorials, small group sessions, class presentations and critiques.  
P: DESIGN 350, DESIGN 431; one upper level design studio (choose from DESIGN 433, DESIGN 437, DESIGN 438, or DESIGN 439)  
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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

**DESIGN 496. Project/Research Assistantship. 1-6 Credits.**

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

**DESIGN 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 UWGB career advisors.  
P: jr st, declared Design major or minor, 2.75 GPA in major or minor courses, DESIGN 431 with B grade  
Fall and Spring.



# Democracy and Justice Studies (DJS)

## Courses

### **DJS 101. Introduction to Democracy and Justice Studies. 3 Credits.**

This team-taught course will introduce students to a variety of theories about democracy and justice and offer examples of those who have attempted to put democracy and justice into practice, as well as the opportunity to apply these theories and examples in a high-impact experience.

Fall and Spring.

### **DJS 102. Introduction to Social Justice. 3 Credits.**

This course introduces students to the concept of social justice and the complexities that arise from defining it and advocating for it. This course highlights both historical origins and contemporary perspectives on the concept of social justice as well as the ways that activists and thinkers, past and present, have organized to create a more democratic and equitable society around the categories of race, gender, class, and sexual orientation/identity. In this course students will be introduced to the practical considerations of organizing to create social justice in their community and encouraged to engage in civic action.

Fall and Spring.

### **DJS 104. Introduction to Global Democracy and Human Rights. 3 Credits.**

Examination of definitions, theories, and practices of democracy as a political system and human rights, historically and cross culturally.

Fall and Spring.

### **DJS 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman

Fall and Spring.

### **DJS 200. Mentoring for Equity and Inclusion. 3 Credits.**

Students will serve as mentors for Green Bay high school students participating in the Federal TRIO Upward Bound program. Mentors will help promote the development of skills critical to academic success, will encourage students to aspire to college, will help overcome barriers to college attainment, and will act as a role model and resource for the underrepresented students served by TRIO programs. A critical component of mentoring will involve learning about the barriers that have historically limited access to college, including low income, racism, and sexism. Mentors will work with local TRIO students at least four hours per week for twelve weeks and will provide mentoring as well as tutoring support.

Fall and Spring.

### **DJS 204. Freedom and Social Control. 3 Credits.**

Explores definitions, concepts and theories used to explain and understand central features of social power. Themes include the struggle for social justice, the history of punishment in Western society, and the legal and extralegal management and disciplining of individuals and groups.

Fall and Spring.

### **DJS 221. Law and Equality 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. In units on the law of personal status, the impact of the Fourteenth Amendment, ideals of citizenship and belonging, and modern civil rights, we will investigate how Americans from the colonial era to the modern era have understood their legal rights and obligations to one another. We will investigate transformations in the legal meaning of citizenship and civil rights over time and consider the terms in which we uphold "equality" in our own historical moment.

Spring.

### **DJS 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

### **DJS 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**DJS 303. Criminal Justice Process. 3 Credits.**

A study of the components, relations, and processes of U.S. criminal justice. The criminal justice system is theoretically linked to larger social arrangements, including class and race-ethnic stratification. Ethical problems, such as group disparities in arrest and sentencing, are given special attention.

P: Pol Sci 101 and Sociol 101

Fall Only.

**DJS 320. Constitutional Law. 3 Credits.**

This course examines the development of constitutional law across a variety of issue areas in the United States Supreme Court, focusing on civil liberties and civil rights. It is taught using the case law method, which consists of reading judicial opinions. In addition to learning about our individual freedoms and rights, we will identify, analyze, and evaluate the legal questions and legal arguments raised in Supreme Court cases.

P: POL SCI 101

Fall Only.

**DJS 325. Law and Society. 3 Credits.**

Explores how the courts can either promote or inhibit progressive social, political, and economic changes in contemporary American society. There is a great deal of emphasis placed on how to use theory to better understand the relationship between law and society.

P: History 206 or Pol Sci 100 or 101 or Sociol 101

Spring.

**DJS 330. Prison and Society. 3 Credits.**

Prison and Society is an historical-comparative and critical social scientific look at the institutions, relations, and dynamics of correctional systems past, present, and future. Correctional systems (domestic and foreign) are theoretically linked to other societal arrangements, such as social class and race relations. Ethics and theories of justice are also considered.

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 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.

Fall Only.

**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 if topics differ; may be taken 3 times for a total of 9 credits.

REC: DJS 101

Fall and Spring.

**DJS 400. Mentoring for Equity and Inclusion. 3 Credits.**

Students will serve as mentors for Green Bay high school students participating in the Federal TRIO Upward Bound program. Mentors will help promote the development of skills critical to academic success, will encourage students to aspire to college, will help overcome barriers to college attainment, and will act as a role model and resource for the underrepresented students served by TRIO programs. A critical component of mentoring will involve learning about the barriers that have historically limited access to college, including low income, racism, and sexism. Mentors will work with local TRIO students at least four hours per week for twelve weeks and will provide mentoring as well as tutoring support. 400 Level students will complete an additional substantiv project.

P: DJS 101

Fall and Spring.

**DJS 470. Senior Seminar in Democracy and Justice Studies. 3 Credits.**

Rigorous analysis of an important social change issue or of the work of an important social change theorist. This capstone includes high impact experiences such as community-based learning, collaborative assignments, or undergraduate research. Course is not repeatable for credit.

P: Junior Status

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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**DJS 496. Project/Research Assistantship. 1-6 Credits.**

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

P: jr st.

**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.

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.

## Economics (ECON)

### Courses

**ECON 102. Economics of the Modern World. 3 Credits.**

An introduction to the study of economics that examines economic systems, global interdependence, and provides an orientation to economic concepts. Among the topics included are competitiveness of markets, measures of economic output, structure of the U.S. financial system, and global trade, as well as types of failure within economic systems, social equity and economic justice. Emphasis is placed upon problems, current issues, and the rationale for economic policy.

Fall and Spring.

**ECON 202. Macro Economic Analysis. 3 Credits.**

Introduction to the behavior of our economy in the aggregate, focusing upon the process by which the economy achieves a certain level of output and employment.

Fall and Spring.

**ECON 203. Micro Economic Analysis. 3 Credits.**

The decision-making processes of individuals and business firms associated with the determination of what products will be produced, how they will be produced, and what prices specific goods and services will command.

P: None. REC: ECON 102

Fall and Spring.

**ECON 208. Economics WTCS Bridge. 3 Credits.**

An examination of 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. This examination leads into the behavior of our economy in aggregate, focusing upon processes by which the economy measures, attains, and influences overall output, employment, and prices.

P: ECON 209

Fall and Spring.

**ECON 209. WTCS Transfer Credit. 3 Credits.**

This course is a transfer destination course for WTCS 10-809-195 and is a requirement to enroll into the ECON 208 Economics WTCS Bridge course.

Fall and Spring.

**ECON 210. Quantitative Methods for Economics and Business. 3 Credits.**

Economists and businesses utilize 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 and 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 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

**ECON 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**ECON 302. Intermediate Macro Economic Theory. 3 Credits.**

Theories of national income distribution as a basis for an examination of policy proposals to deal with inflation, unemployment, economic fluctuations and economic growth at national and international levels. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: ECON 202 and overall minimum GPA of 2.5

Fall Only.

**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 and overall minimum GPA of 2.5

Spring.

**ECON 305. Environmental Economics. 3 Credits.**

Examines 1) the economic rationale for policy, 2) the various types of policy approaches used, and 3) alternative policy options for managing the development and sustainable use of natural resources (broadly defined to include environmental resources). Particular attention is paid to the longer time horizon required for sustainability and maintenance of quality ecosystems, a necessary condition, or precursor, to having a dynamic and vibrant economic system over time.

P: ECON 102 or ECON 202 or ECON 203, and an overall minimum GPA of 2.5

Fall Only.

**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; BUSAN 220 or COMM SCI 205 or MATH 260; and an overall GPA of 2.5

Spring.

**ECON 330. Money, Banking and Financial Markets. 3 Credits.**

Analysis of money as an economic institution, the organizational structure of the commercial and central banking system, and its functioning in the U.S.; monetary theory and policy in the national and international setting. The course will also examine key financial markets such as bonds, stocks, and foreign exchange. In addition, the course will provide an introduction to the role of other key financial institutions, such as insurance companies, securities firms, and government-sponsored financial enterprises.

P: ECON 102 or ECON 202 (strongly preferred) or ECON 203, and overall GPA of 2.5 or higher

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 403. International Economics and Finance. 3 Credits.**

Theory and concepts of international trade and finance; contemporary conditions and problems in international economic relations.

P: ECON 202 and ECON 203; Junior Standing; and an overall GPA of 2.5

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, and an overall GPA of 2.5

Fall Only.

**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.

P: Completion of 53 credits (Junior status) or permission of instructor, and an overall GPA of 2.5; REC: any one of ECON 102, ECON 202, or ECON 203

Spring.

**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; ECON 203; and an overall GPA of 2.5

Fall Only.

**ECON 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Overall GPA of 2.5

Fall and Spring.

**ECON 496. Project/Research Assistantship. 1-6 Credits.**

The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: jr standing or higher. REC: declared economics major or minor

Fall and Spring.

**ECON 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Overall GPA of 2.5, and Junior Standing

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: Junior Standing and overall minimum GPA of 2.5

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 206. Culturally Responsive Teaching and Learning. 3 Credits.**

Overview of causes, effects of racism, sexism, and other systems of oppression and advantage in U.S. society and its institutions; study of Wisconsin First Nations' histories, cultures, sovereignty, and contemporary issues; examination of multiple racial, cultural communities through lens of education; and application of culturally responsive perspectives in future educational practice.  
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 210. Foundations of Literacy. 3 Credits.**

This course is to familiarize students with the foundational components of language and literacy development. Students will learn about language development in children from birth through becoming proficient readers. The course content is aligned with the objectives of the Foundations of Reading Test, and are supported by historical and current research in the area of reading development. Strong focus is given to the areas of phonological and phonemic awareness, phonics development and instruction, developing fluency, vocabulary development, and comprehension of literary and expository texts.

P: Candidacy or full admission to EDUC; EDUC 290 or concurrent enrollment.  
Fall and Spring.

### **EDUC 281. Conceptual Foundations of Elementary Mathematics I. 3 Credits.**

Foundations of mathematics, particularly those concepts common to the mathematics curriculum of elementary schools. Explores the processes of abstraction, symbolic representation, notational manipulation and modeling in all arithmetic contexts; examines non-arithmetic topics such as geometry, probability, statistics, algebra, and programming concepts.

Fall and Spring.

### **EDUC 282. Conceptual Foundations of Elementary Mathematics II. 3 Credits.**

Foundations of mathematics, particularly those concepts common to the mathematics curriculum of elementary schools. Explores the processes of abstraction, symbolic representation, notational manipulation and modeling in all arithmetic contexts; examines non-arithmetic topics such as geometry, probability, statistics, algebra, and programming concepts. May not be taken on a pass/no credit basis.

P: Full admission to the Education program; completed or concurrent enrollment in EDUC 281 and EDUC 361; and concurrent enrollment in EDUC 324 and EDUC 351  
Fall and Spring.

### **EDUC 284. Fundamentals of Algebra, Geometry and Measurement for Teaching. 3 Credits.**

This course is designed for prospective teachers seeking K-9 licensure. Content strands include expressions and equations, algebra and functions. Algebra and functions topics include the concepts of variable and function, algebraic thinking, linear, polynomial, rational, and exponential functions, mathematical models, rates of change, and multiple representations of relations. We will also explore strands in geometry and measurement, data analysis and statistics. Topics from these strands include: properties of geometric figures, geometric measurement (length, area, volume), congruence and similarity, transformations; and descriptive statistics. Aligned with state and national standards, this course will emphasize problem solving, communication, reasoning, and representation in mathematics.

Fall and Spring.



**EDUC 290. Introduction to Educational Inquiry. 3 Credits.**

An intensive exploration of educational theories, teaching methodologies, and other critical practices required to be an effective educator. This course is accompanied by a field practicum course, EDUC 291.

P: Departmental Approval required; concurrent enrollment with EDUC 291; and caregiver background check and TB test required  
Fall and Spring.

**EDUC 291. Educational Inquiry Field Practicum. 3 Credits.**

This course provides an opportunity to extend theoretical learning by examining and implementing it in the field practicum. This course is accompanied by a lecture course, EDUC 290.

P: Departmental Approval required; concurrent enrollment with EDUC 290; 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.

Fall Only.

**EDUC 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript. Course is repeatable for credit.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**EDUC 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**EDUC 302. Teaching Social Studies in Elementary and Middle Schools. 3 Credits.**

Addresses social studies standards, assessments, curriculum content, and instructional strategies including concepts, classroom environment, scope and sequence and other forces influencing the social studies program.

P: adm to teacher educ and Educ 361.

Fall and Spring.

**EDUC 304. Teaching Music in the Elementary and Middle Schools. 3 Credits.**

Identification of children's musical needs; materials and methods to assist classroom teachers in meeting these needs; includes practical experience with basic elements of music for the classroom teacher's competency and self-confidence.

P: adm to teacher educ and Educ 361.

Fall and Spring.

**EDUC 307. Teaching Reading in the Elementary and Middle Schools. 3 Credits.**

Teaching methods in developmental reading: nature of the reading process, reading readiness, vocabulary, comprehension and study-skills development. Techniques for diagnosis and instruction of diverse learners.

P: Admission to teacher education and EDUC 210; Completion or concurrent enrollment in EDUC 340 and EDUC 361; Concurrent enrollment in EDUC 309 and 351

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. Field experience required.

P: Admission to teacher education and EDUC 210; Completion or concurrent enrollment in EDUC 340 and EDUC 361; Concurrent enrollment in EDUC 307 and EDUC 351

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 World 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 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: HUM STUD 160

Fall Only.

**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 318. Cross-Curricular Methods in Middle and Secondary Schools. 3 Credits.**

This course will focus on the specific tools, strategies and methods necessary to be a successful instructor within a content area. Through analysis of new ideas and concepts, as well as reflecting on concepts learned in previous coursework, students will build a "tool box" as educators while also critically examining how these ideas are implemented in the classroom. This course will work hand-in-hand with a field experience for EDUC 350. Online modules led by instructors certified in specific content areas are included.

P: Admission to teacher education; Concurrent enrollment with EDUC 350

Fall Only.

**EDUC 319. Adolescent Literature in Middle and Secondary School Reading. 3 Credits.**

Design and content of effective adolescent literature programs; analysis and evaluation of adolescent literature; current practices in literacy curricula; adolescent literature and personal development; literature and social issues.

P: Admission to Education minor or Candidacy Status

Spring.

**EDUC 324. Teaching Mathematics in the Elementary and Middle Schools. 3 Credits.**

Educational research and practices related to methods, materials, evaluation techniques; mathematics curriculum development, implementation and evaluation, teaching mathematical concepts, facts, skills, problem-solving, use of calculators and computers; error patterns and remediation.

P: adm to teacher educ; EDUC 361 and EDUC 281 (or concurrent); concurrent enrollment in EDUC 282 and EDUC 351

Fall and Spring.

**EDUC 325. Teaching Science in the Elementary and Middle Schools. 3 Credits.**

Teaching processes, methods, philosophies, resources and materials, evaluation techniques, implementation and evaluation in elementary and middle school science concepts, processes and problem-solving with an emphasis on an interdisciplinary approach.

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 327. Supporting Multilingual Learners in the PK-12 Classroom. 3 Credits.**

This course examines issues that affect multilingual learners in schools. Students will develop knowledge of language and strategies necessary for effective teaching of multilingual learners in mainstream K-12 classes. Students will also explore factors that contribute to the educational experiences of multilingual learners by examining policy, programming, and instruction.

P: EDUC 206

Fall and Spring.

**EDUC 328. Disciplinary Language and Literacy. 3 Credits.**

This course uses a systemic functional linguistics perspective to prepare teachers to attend to disciplinary language and literacy within content instruction. Students also study English Language Development standards, gain familiarity with formative and summative English language proficiency assessments in K-12 settings, and learn strategies for language-focused instruction within content-based context.

REC: EDUC 327

Spring.

**EDUC 333. Curriculum & Assessment. 3 Credits.**

Overview of all developmental and instructional assessment methods, curriculum and instructional planning based on assessments.

P: Admission to Education or candidacy status required; TB test and criminal background check OR admission to the Organizational Leadership major

Fall and Spring.



**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. Course may be repeated 2 times for a total of 6 credits.

Fall and Spring.

**EDUC 345. Foundations of Special Education. 3 Credits.**

This course will focus on the study of instructional techniques and programming options designed to increase the success of students learning and/or behavior disabilities served within inclusionary settings.

P: adm to teacher educ or candidacy

Fall and Spring.

**EDUC 350. Field Experience in Teaching Methods. 1 Credit.**

Contact hours for direct experience with school age children/youth in an educational setting, focusing on content areas identified by education faculty, school faculty and other educators.

P: admission to teacher educ. REC: concurrent enrollment in EDUC 310, 311, 312, 313, 314, 315, 316, or 317

Fall and Spring.

**EDUC 351. Field Project in School Settings. 3 Credits.**

Contact hours of direct experience with school children/youth in educational settings, focusing on specific educational projects or content areas identified by education faculty, school faculty, and other educators. The number of hours assigned will be aligned with the number of enrolled credits. Course is repeatable for credit; may be taken 3 times for a total of 9 earned credits.

P: adm to teacher educ; concurrent enrollment in EDUC 307, 309 or EDUC 324

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 school. Factors in the lives of 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 children and their families as well as knowledge of community resources will be stressed.

P: Admission to Education or candidacy status required; OR admission to the Organizational Leadership major

Fall and Spring.

**EDUC 361. Introduction to the Art and Science of Teaching. 3 Credits.**

This course provides pre-service teachers with a foundation for understanding the teaching profession and the nature of learners. The course combines both theory and practice in the art and science of teaching.

P: Adm to teacher educ; grade of B or better in EDUC 290, 291 and 340; OR admission to the Organizational Leadership major

Fall and Spring.

**EDUC 405. Student Teaching. 6-12 Credits.**

Supervised student teaching or internships in a PK-12 classroom at a level corresponding to the license. Offered on a pass/no credit basis only.

Additional special course fee required for students exercising options for extra administrative and travel costs. Course is repeatable for credit.

P: Adm to teacher educ.

Fall and Spring.

**EDUC 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.

P: Concurrent enrollment in EDUC 405

Fall and Spring.

**EDUC 416. Principles of Coaching. 3 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.

Fall Only.

**EDUC 417. Philosophy of Athletics and Coaching. 3 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. 3 Credits.**

This course is designed to encompass the various phases of organizing and administering of an athletics program with application to interscholastic, collegiate and nonacademic environments such as sports clubs and public athletics. This course will focus on real-world leadership issues such as hiring coaches; budget development; retaining officials; recruiting workers for athletics contests; booster club coordination; and supervision of coaches and athletics.

Spring.

**EDUC 419. Field Experience in Coaching. 3 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 421. Literacy and Language Development in Young Children. 3 Credits.**

Acquisition of reading skills and development of language in preschool through primary grades; analysis of instructional and diagnostic strategies for listening and reading comprehension, vocabulary development, word identification strategies and approaches to beginning reading.

P: Admission to teacher education and EDUC 361 (or concurrent enrollment); Concurrent enrollment with EDUC 307 and EDUC 309

Fall and Spring.

**EDUC 422. Reading in the Content Areas. 3 Credits.**

Practical guidelines for classroom teachers in subject areas: English, social studies, mathematics, science, etc. Suggestions for teaching reading and study skills related to content, specialized and technical vocabulary, dealing effectively with reading problems in the content areas as it relates to the Common Core State Standards (CCSS).

P: adm to teacher educ

Fall and Spring.

**EDUC 444. Current Trends in Education. 3 Credits.**

This course provides an opportunity to explore the critical trends and issues being debated within the field of Education. Further, this course will examines current trends, historical origins, recurring issues, research findings, and resulting program developments in 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 education.

P: Candidacy status or Full Admin to the Education program

Fall and Spring.

**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.

Fall Only.

**EDUC 452. Principles of Middle Level Education. 3 Credits.**

Provides students with an overview of middle level students, teachers, schools, and curriculum. Suggests instructional strategies to meet student needs. Addresses issues related to middle level education.

P: adm to teacher educ.

Fall and Spring.

**EDUC 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**EDUC 495. Special Topics. 1-6 Credits.**

Course is repeatable for credit if topics differ.

**EDUC 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit

P: jr st.

Fall and Spring.

**EDUC 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript. Course is repeatable for credit

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**EDUC 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## English (ENGLISH)

### Courses

**ENGLISH 104. Introduction to Literature. 3 Credits.**

The distinctive characteristics of poetry, plays, short stories and the novel, intended to help students understand, appreciate and enjoy literature ranging from the classic to the contemporary.

Fall and Spring.

**ENGLISH 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**ENGLISH 200. Arts Entrepreneurship. 3 Credits.**

Foundational course in securing arts and humanities grant support from federal, regional, and local agencies. Projects include grant writing for students' own individual arts and humanities projects, and seeking grants on behalf of clients in diverse fields (ie education, social services, arts and culture).

P: Declared major or minor in English, Writing, or Humanities

Fall Odd.

**ENGLISH 201. Ethics in Writing. 3 Credits.**

A study of the personal, public, collective, literary, and participatory stakes of storytelling for writers and their audiences. Topics may include editorial aesthetics, diversity and inclusion, cultural appropriation, translation, content warnings, copyright, permissions, plagiarism, intellectual property, and censorship, as well as the unique ethical dilemmas writers face in specific genres of writing (video games, RPGs, professional writing, community storytelling, fantasy, sci fi, realism, poetry, romance, horror).

Fall Only.

**ENGLISH 202. Science Fiction and the Environment. 3 Credits.**

This course analyzes climate-based speculative and science fiction of any genre (novels, plays, short fiction, games, etc.) at the discretion of the instructor, with a focus on climate-change and its global and/or regional effects.

Fall Only.

**ENGLISH 206. Women in Literature. 3 Credits.**

An introductory study of diverse women and non-binary writers with a focus on gender studies. Course is not repeatable for credit.

Fall and Spring.

**ENGLISH 212. Introduction to Creative Writing. 3 Credits.**

A first course focused on the analysis, understanding, appreciation, and techniques of writing poetry and fiction, as well as other genres at the discretion of the instructor.

Fall and Spring.

**ENGLISH 214. Introduction to English Literature I. 3 Credits.**

A survey of literature from the British Isles, c. 800-1800.

Fall Only.

**ENGLISH 215. Introduction to English Literature II. 3 Credits.**

A Survey of British Literature from the British Isles and Colonies, 1800-present.

Spring.

**ENGLISH 216. Introduction to American Literature I. 3 Credits.**

An American literary survey that begins before the colonial era through the Civil War.

Fall Only.

**ENGLISH 217. Introduction to American Literature II. 3 Credits.**

A survey of American literature written since the Civil War.

Spring.

**ENGLISH 218. World Literatures. 3 Credits.**

A survey of literature from one or more countries and/or languages. Topics vary. May be taken twice for a total of 6 credits with a different topic. 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 a literary publication, from selecting submissions to editing the finished product. Course is repeatable for credit up to 6 credits.

P: none. REC: ENGLISH 212 or any Design Arts LL course.

**ENGLISH 226. Grammar. 3 Credits.**

In-depth study of modern English grammar emphasizing distinctions between grammatical form and function, recognition of basic patterns underlying sentence structure, and usage of grammatical/mechanical knowledge to effectively copy-edit texts of various genres. Fall Only.

**ENGLISH 227. Copyediting and Workflow. 3 Credits.**

A hands-on course dedicated to the editorial process and applying modern language conventions found in commonly-used style manuals, developing line editing skills, utilizing editorial marks and style guides, as well as providing feedback to authors. Participants will also be introduced to analyzing and managing editorial workflows.

P: ENGLISH 226 or concurrent enrollment  
Spring.

**ENGLISH 228. Introduction to Technical and Professional Writing. 3 Credits.**

Introductory course focused on the effective delivery of information pertinent to the professions and technical fields. Participants will analyze a variety of texts, gain hands-on experience with professional and technical writing conventions, and consider ethical dilemmas that impact the field. Fall Only.

**ENGLISH 236. Multicultural American Literature. 3 Credits.**

An introductory study of American authors of racially and ethnically-diverse backgrounds. Fall Only.

**ENGLISH 264. Topics in Literature. 3 Credits.**

This course explores one topic, which may be a literary subject or genre. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: None. REC: ENGLISH 105.

**ENGLISH 290. Literary Studies. 3 Credits.**

In this course students will learn how to conduct a literary analysis: how to read literature for complexity, how to make an original, organized argument about a literary text, and how to employ academic prose while developing their own writing voice.

P: English maj/min.  
Fall and Spring.

**ENGLISH 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.  
Fall and Spring.

**ENGLISH 299. Travel Course. 1-6 Credits.**

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

**ENGLISH 301. Intermediate Creative Writing. 3 Credits.**

Study and analysis of writing techniques and elements, 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 212  
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; WF 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:

ENGLISH 212

Spring Odd.

**ENGLISH 307. Writing the Environment Workshop. 3 Credits.**

Study, writing, and workshop of original creative and professional works about environmental topics and concerns, such as climate change, deforestation, urban sprawl, resource scarcity, pollution, and more. Individual and group criticism of original student writing in workshop context. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: ENGLISH 212 or ENGLISH 228

Fall Even.

**ENGLISH 309. Co-Creative Writing Workshop. 3 Credits.**

For an entire semester, students in this course will be partnered with creators at another organization, non-profit, community agency, university, K-12 school, or academic discipline at UW-Green Bay to engage in collaborative arts and writing projects. All parties - UWGB students as well as the organizational partners - will work together as co-creators. Repeatable for up to 6 credits when topics differ.

P: ENGLISH 212, or ENGLISH 228, or ENGLISH 201

Spring Even.

**ENGLISH 310. Topics in Game Writing. 3 Credits.**

Advanced study and workshop of digital and analog genres incorporating the structural and formal elements of game design, including individual and group criticism of student work. Topics may include digital writing, interactive literature, transmedia work, collaborative worldbuilding, and more. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: ENGLISH 212 or INFO SCI major or DPH major.

**ENGLISH 312. Topics in Creative Writing. 3 Credits.**

Study and writing of a single topic in creative writing (for example: humor writing, flash fiction, graphic narrative, or writing for entertainment), including individual and group criticism of original student materials in workshop context. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: ENGLISH 212 or ENGLISH 228 or ENGLISH 201.

**ENGLISH 314. Topics in Professional & Technical Writing. 3 Credits.**

Advanced study, composition, and workshop of original works found in the fields of professional and technical writing, including individual and group criticism of student work. Topics may include magazine writing, civic and public service writing, travel writing, technical manuals, and more. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: ENGLISH 228 or instructor consent.

**ENGLISH 315. The British Novel. 3 Credits.**

A course that focuses on texts in relation to their time period or literary movement. Course is repeatable for credit as topics differ; may be taken 2 times for a total of 6 earned credits.

P: English 290 or concurrent enrollment, Jr st.

Fall Only.

**ENGLISH 319. Children's and Adolescent Literature. 3 Credits.**

A survey of literature for children (0-17) focused on techniques of literary study, social contexts of literature, new developments in the field of study, and criteria for evaluating the quality and meaning of fiction and novels, picture books, fairy tales, nonfiction texts, poetry, and plays.

P: ENGLISH 100, ENGLISH 105 (or concurrent enrollment). REC: ENGLISH 290

Fall Only.

**ENGLISH 320. Major Drama. 3 Credits.**

An upper-level seminar on stage drama of any culture(s). 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.**

This upper-level course focuses on poetry. 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: None. REC: English 212

Fall and Spring.

**ENGLISH 326. Topics in Publishing. 3 Credits.**

Specialized study of a single topic publishing and publications history, such as Meddling Editors, The Book Arts, Russian Print Culture, or #WeNeedDiverseBooks. Repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: English 290 or Hum Stud 200

Spring Even.

**ENGLISH 327. Digital Platforms for Publishing. 3 Credits.**

Project-based exploration and hands-on experience with a variety of publishing systems, markup languages, content management systems, and web-publishing services. Includes study of copyright and creative commons licensing, version control, and asset management.

P: ENGLISH 228 or instructor consent

Spring Even.

**ENGLISH 328. UX Writing. 3 Credits.**

An exploration of how we interact with texts and technology. This course equips participants with the fundamental skills in interface design, prompt engineering, and writing for user experience human-computer interactivity.

P: None. REC: ENGLISH 228 or instructor consent

Fall Even.

**ENGLISH 329. Placemaking and Writing. 3 Credits.**

Project-based course focused on the analysis of place for the purposes of developing placemaking grant proposals, conducting community outreach, and giving "voice" to the relationships between people and the spaces they occupy.

P: ENGLISH 201 or ENGLISH 212 or ENGLISH 228, or instructor consent

Spring Odd.

**ENGLISH 331. Major American Prose Fiction. 3 Credits.**

An exploration of American prose fiction through a specific topic or genre. Course is repeatable for credit as topics differ.

P: English 290 or concurrent enrollment, Jr st.

Spring.

**ENGLISH 333. Literary Themes. 3 Credits.**

Explores a single theme 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.**

An upper-level course that focuses on texts in relation to their time period or literary movement. Course is repeatable for credit as topics differ.

P: English 290 or concurrent enrollment, Jr st.

Fall Only.

**ENGLISH 336. American Ethnic Literature. 3 Credits.**

An advanced study of American authors of racially and ethnically-diverse backgrounds. May focus on one or more communities.

P: ENGLISH 290 or concurrent enrollment, Jr st.

Spring.

**ENGLISH 338. World Literatures. 3 Credits.**

Students will learn to examine the human experience from different global literary perspectives. Topics vary and may include subjects and genres.

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.**

An advanced study of African American Literature. Course is not repeatable for credit.

P: ENGLISH 290 or concurrent enrollment, Jr st.

Fall Even.

**ENGLISH 345. LGBTQ Literature. 3 Credits.**

This course examines LGBTQ2SIA+ literature. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

Fall Odd.

**ENGLISH 364. Literary Topics. 3 Credits.**

The study of topics through literature. Topics may include subjects, genres, and/or adaptations. May be repeated for credit when content is different.

P: jr st.

**ENGLISH 400. English Capstone. 3 Credits.**

This course provides a transformative culminating experience that results in a public-facing product.

P: ENGLISH 290; Senior standing

Fall Only.

**ENGLISH 410. Live Video Streaming Practicum. 3 Credits.**

Practical experience in the creation of live video content for online streaming platforms. The course will produce and market a wide variety of digital streaming content for the UWGB Center for Games and Interactive Media streaming channel. Skills may include video editing, audience engagement, event preparation, extemporaneous creation, and market research. Course is repeatable for credit, and may be taken 2 times for a total of 6 credits.

P: Junior Standing or COMM Major or Writ-AA Major. REC: ENGLISH 310

Spring.

**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 (including individual topics) is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: Sophomore standing or instructor permission. REC: ENGLISH 212, DESIGN 131, HUMANITIES 201, ARTS MGT 256

Fall Only.

**ENGLISH 428. Practicum in Community Engaged Writing. 3 Credits.**

This service-learning course will provide students with the opportunity to apply skills acquired throughout the program in a professional environment. Participants will work with a single non-profit, civil, or campus-based organization (the client) to help produce an extensive campaign or collection of materials. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 earned credits.

P: ENGLISH 212 or ENGLISH 228 or concurrent enrollment. REC: WF 105

Fall Only.

**ENGLISH 431. Shakespeare. 3 Credits.**

Study of a representative selection of Shakespeare's plays, including comedies, histories, tragedies, and romances.

P: English 290 or concurrent enrollment, Jr st.

Fall Only.

**ENGLISH 436. Major Author(s). 3 Credits.**

An upper-level literature course that involves an in-depth exploration of works by one or a few significant writers. 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 495. Teaching Assistantship. 1-6 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.

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.

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.

## Engineering (ENGR)

### Courses

**ENGR 120. Electrical Circuits I. 3 Credits.**

This course uses theory, laboratory investigation, and circuit simulation software to introduce basic electrical and circuit analysis principles. Emphasis is placed on direct current (DC) circuits containing voltage and current sources and resistor networks in series, parallel, and series-parallel configurations. This course also introduces the concepts of electric and magnetic fields in the context of capacitors and inductors and their transient responses in DC circuits. A section on basic alternating current (AC) resistive circuits with sinusoidal sources is included.

P: MATH 104 with a C or higher, AND declared Electrical Engineering Technology major or Electrical Engineering major or Mechanical Engineering major or Electrical Engineering Principles Certificate

Spring.

**ENGR 121. Electrical Circuits I Lab. 1 Credit.**

This course is a laboratory course based on ENGR 120 Electrical Circuits I. In this course, both simulation and implementation of DC circuits will be conducted.

P: ENGR 120 with a C or higher or concurrent enrollment, AND declared Electrical Engineering Technology major, or Electrical Engineering major, or Mechanical Engineering major, or Electrical Engineering Principles Certificate

Spring.

**ENGR 186. Introduction to Digital Transformation. 3 Credits.**

Currently, the world is passing through a significant level of changes due to unprecedented growth of digital technologies, namely, Artificial Intelligence (AI), Big Data, Clouds, and the Internet of Things (IoT). As these digital technologies are being deployed, current business models and user/consumer experience need to be reimaged through the process of digital transformation, thereby making digital transformation not only just an option to move forward but also an urge to act upon for successful survival of contemporary businesses, enterprises, and organizations. While digital transformation is not just applying advanced digital technologies to businesses, it must also adopt a holistic approach that addresses consumer experience and accepts transformational leadership roles to take on challenges and opportunities offered by digital economy. This course attempts to provide an introduction to digital transformation framework, practices, and case studies for the emerging society.

FSS.

**ENGR 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.



**ENGR 202. An Introduction to Smart Cities. 3 Credits.**

It is anticipated that in the near future a significant portion of world population will live in cities. Cities of the future need to be smart, sustainable, and efficient. This course introduces students to the concept of Smart Cities and explains the technologies, infrastructure, transportation, healthcare systems, and security that must be considered in economic and sustainable development policies. Case studies of a diverse selection of present day smart cities are included to demonstrate the aspects of smart cities in the present and future.

Spring.

**ENGR 210. Electrical Circuits II. 3 Credits.**

This course deals with the fundamentals of alternating current (AC) circuits including theories, analyses, and design of AC circuits and their applications. This course should be useful in building the knowledge foundation for several future courses on electrical and electronic engineering.

P: ENGR 120 with a C or higher, ENGR 121 with a C or higher, and declared major in Electrical Engineering Technology or Electrical Engineering.  
Fall Only.

**ENGR 211. Electrical Circuits II Lab. 1 Credit.**

This course is a laboratory course based on ENGR 210 Electrical Circuits 2. In this course, both simulation and implementation of alternating current (AC) circuits will be conducted.

P: ENGR 121 with a C or higher, ENGR 210 with a C or higher or concurrent enrollment, and declared major in Electrical Engineering Technology or Electrical Engineering.

Fall Only.

**ENGR 222. Electronic Devices. 3 Credits.**

This course introduces semiconductor materials and manipulation to create several types of basic electronic devices such as diodes, bipolar junction transistors, field effect transistors, operational amplifiers and their circuit models for the design and analysis of electronic circuits.

P: ENGR 210 with a C or higher, and ENGR 211 with a C or higher

Spring.

**ENGR 223. Electronic Devices Lab. 1 Credit.**

In this course students will perform experiments to verify practically the theories and concepts learned in the Electronic Devices course.

P: ENGR 222 with a C or higher OR concurrent enrollment

Spring.

**ENGR 224. Electrical Codes, Safety, and Standards. 2 Credits.**

This course provides an interpretive survey of various codes, safety procedures, and standards as applied to the electrical construction industry. These include discussions on the National Electrical Code (NEC) and related safety organizations and standards guidelines, for instance, OSHA, IEEE, IEC, ISA, ANSI, and UL. Topics also include an overview of electrical wiring, switches and receptacles, metallic and non-metallic sheathed cables, light fixtures, equipment wiring, and conduits. This course also emphasizes electrical safety procedures and up-to-date electrical codes. The National Electrical Safety Code (NESC) would also be introduced.

P: ENGR 120 with a C or higher, ENGR 121 with a C or higher, AND declared Electrical Engineering Technology major or Electrical Engineering major  
Spring.

**ENGR 236. Technical Writing and Information Literacy. 3 Credits.**

This course will prepare students to be competent technical writers, both for the scientific community and the general public. Students will learn how to construct well researched and organized papers, lab reports, and technical instructions that meet formal English grammar guidelines. This will include appropriate use of figures and tables in technical communications. Throughout all activities, students will practice information literacy by learning to navigate the information landscape, locating bias in media and other resources, and performing lateral reading to fact check information. This course meets the graduation requirement for WF 105 for Engineering, Engineering Technology, and Computer Science majors and the General Education requirement for Information Literacy.

P: WF 100 or WF 164 with a C or better or ACT English score of 25 or above, or SAT Reading Test score of 32 or above

Fall and Spring.

**ENGR 260. Introduction to Engineering Ethics. 3 Credits.**

This course presents a philosophical examination of the nature of engineering practice and applied technology. The fundamental philosophy of ethics will be covered with application specific to engineering practice. The course will consider how the societal functions of engineers and applications of technology relate to basic ethical and intellectual values, what ethical obligations are implied by the uses and creation of technology, and what ethical duties engineers have in the practice of their careers. Case studies will be used to illustrate concepts.

**ENGR 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**ENGR 310. Digital Logic Design. 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, register and counter, A/D and D/A converters and timer circuits. Introduction to transistor level design of digital circuits.

P: ENGR 222 with a C or higher, and ENGR 223 with a C or higher

Fall Only.

**ENGR 311. Digital Logic Design Lab. 1 Credit.**

In this course students will perform experiments to verify practically the theories and concepts learned in the Digital Logic Design course.

P: ENGR 310 with a C or higher OR concurrent enrollment

Fall Only.

**ENGR 320. Energy Conversion. 3 Credits.**

Electromechanical energy conversion and operating principles of electric machines such as induction machines, synchronous machines, direct current machines, and special machines.

P: ENGR 210 with a C or higher, and ENGR 211 with a C or higher

Spring.

**ENGR 321. Energy Conversion Lab. 1 Credit.**

In this course students will perform experiments to verify practically the theories and concepts learned in the Energy Conversion course.

P: ENGR 320 with a C or higher OR concurrent enrollment

Spring.

**ENGR 328. Microcontrollers 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. Ladder logic programming is also introduced.

P: ET 142 with a C or higher, and ENGR 310 with a C or higher

Spring.

**ENGR 329. Microcontrollers and Programmable Logic Controllers Lab. 1 Credit.**

In this course students will perform experiments to verify practically the theories and concepts learned in the Microcontrollers and PLCs course.

P: ENGR 328 with a C or higher OR concurrent enrollment

Spring.

**ENGR 342. 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 signals and systems definitions and properties as well as signal processing techniques and applications. Signals and systems representations and applications to circuit analysis will also be performed using MATLAB software package.

P: MATH 203 with a C or higher, ENGR 210 with a C or higher, and declared major in Electrical Engineering

Fall Only.

**ENGR 343. Signals and Systems Lab. 1 Credit.**

This course provides a laboratory session for the analysis techniques for continuous-time and discrete-time signals and typical model systems.

P: ENGR 342 with a C or higher OR concurrent enrollment

Fall Only.

**ENGR 346. Electrical Power Systems. 3 Credits.**

This course covers characteristics of three phase power configurations and utility systems' interconnections from power generation through distribution systems, including renewable energy sources, transmission lines, utility grid, device coordination, metering, protective relays, fuses, breakers, and fault circuit interrupting.

P: ENGR 320 with a C or higher

Spring.

**ENGR 348. Electromagnetic Fields and Applications. 3 Credits.**

This course introduces electromagnetic vector quantities and vector operations in different coordinate systems; electric field concepts; potential, dielectrics, magnetic fields, magnetic properties; Maxwell's equations and electromagnetic waves.

P: MATH 203 with a C or higher, ENGR 210 with a C or higher, and ENGR 211 with a C or higher

Fall Only.

**ENGR 402. Smart Cities: Engineering the Future. 3 Credits.**

Cities are now a major hub of human populations and in the near future a majority of the world's population will live in cities. To meet growth needs, future cities must be engineering to be smart, sustainable, and efficient. This course characterizes features of smart cities, particularly the role of engineering and technology in the design of infrastructure, transportation, health care, and the security and privacy required in smart systems. Case studies will be used to assess and analyze the economics, policy making, and sustainability of smart city design.

P: MATH 104 or higher with at least a C or graduate standing. REC: ENV SCI 102 or ENV SCI 260 or ET 101 or ENGR 198

Fall and Spring.

**ENGR 412. Communications Systems. 3 Credits.**

This course presents the major concepts necessary to understand the data communications field. The principles of data communication technologies, transmission media, interfaces, channel capacity, error control, flow control, multiplexing, synchronization, circuit switching, and packet switching are the main focus of this course. The course presents the communication systems in terms of their physical and data link layers and then touches upon some selected topics on communications systems and standards. Finally, it is anticipated that introductions to a few selected and special topics in the emerging fields of data communication and networking would also be presented in this course.

P: ENGR 342 with a C or higher

Fall Only.

**ENGR 414. Power System Analysis and Protection. 3 Credits.**

Electrical power flow analysis, short-circuit analysis, symmetrical and unsymmetrical fault analysis, transient stability analysis, economic load dispatch, and general technical problems of electric power systems.

P: ENGR 346 with a C or higher

Fall Only.

**ENGR 426. Wireless Communications. 3 Credits.**

This course presents the main concepts to understand the principles of wireless communications systems. The introductory concepts of wireless communications systems, radio wave propagation, channel models and capacity analysis, as well as the performance of wireless communications systems are the main focus of this course. This course should build upon the backgrounds on communications systems and further the knowledge towards wireless communications fields. This course would also include some emerging topics in the field of wireless communications. Therefore, this course should be useful to students who are or would be pursuing careers in the wireless communications and networking fields.

P: ET 350 with a C or higher OR ENGR 412 with a C or higher

Spring Even.

**ENGR 428. Wireless Networks. 3 Credits.**

This course presents the main concepts to understand the principles of wireless networks. The introductory concepts of wireless networks, wireless transmission techniques, wireless network topologies, routing, and advanced topics in the fields of wireless and cellular communication networks are the main focus of this course. This course should build upon the backgrounds on communications systems and further the knowledge towards data and wireless networks fields. This course would also include some advanced topics in the field of emerging wireless networks. Therefore, this course should be useful to students who are or would be pursuing careers in the wireless communications and networking fields.

P: ET 350 with a C or higher OR ENGR 412 with a C or higher

Spring Odd.

**ENGR 434. Power Electronics. 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: ENGR 222 with a C or higher

Spring.

**ENGR 438. Microprocessors and Embedded Systems. 3 Credits.**

This course will provide an introduction to microprocessor and embedded systems. Basic instructions, features, and architecture of a typical microprocessor system will be studied in this course. Topics on microprocessor programming and assembly language programming will be included. Finally, applications of microprocessors and embedded systems will be studied.

P: ENGR 310 with a C or higher

Spring.

**ENGR 462. Senior Design Project. 3 Credits.**

This is the electrical engineering synthesis course in which students complete a capstone design process that includes project proposal, design definition, design analysis, design completion, oral presentation, and a written report.

P: Senior standing in Electrical Engineering

Fall Only.

**ENGR 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.

**ENGR 493. Special Topics in Electrical Engineering. 3 Credits.**

This course introduces special topics in the field of Electrical Engineering. The topic of the course will be decided by the Electrical Engineering faculty and approved by the Engineering disciplinary Chair prior to being offered.

P: Junior or Senior standing in Electrical Engineering or Electrical Engineering Technology.

**ENGR 494. Co-op. 1-2 Credits.**

Participation in a full-time position at a host organization providing direct, on-the-job experience with professionals already successful in the selected field. The co-op will be in a position closely related to a professional career associated with the major. Students must complete at least two (2) co-op credits during the fall or spring semester and one (1) credit in the summer to be considered full-time status. Course is repeatable for credit. No more than 6 credits may be used to meet requirements for a major and no more than 3 credits may be used to meet requirements for a minor; may vary by academic department.

P: Junior standing and minimum 2.0 GPA in major emphasis (Dept. will monitor GPA req.).

**ENGR 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**ENGR 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.

**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.

## Entrepreneurship (ENTRP)

### Courses

**ENTRP 272. Introduction to Entrepreneurship. 3 Credits.**

This course introduces the principles of entrepreneurship. The student will evaluate the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The student will understand the role of entrepreneurial businesses, and the role that entrepreneurship plays in economic development and its impact on our regional, national, and global economy. Special emphasis is placed on decision-making and problem solving through an understanding of opportunity recognition, economic/financial models, value creation, organizational structure, human resource management, legal environments, operations management, and other basic entrepreneur-related concepts.

**ENTRP 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.

**ENTRP 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; ENTRP 272; satisfaction of mathematical competency requirement; Bus Adm major or minor or Acctg major or minor or Entrepreneurship Certificate; Overall minimum GPA of 2.5

Fall Only.

**ENTRP 481. Small Business Management & Family Entrepreneurship. 3 Credits.**

This course focuses on topics in small business management, family business, and family entrepreneurship. These include: buying (into), growing, and selling or exiting a small business and family business; self-employment, employees, and contractors; microbusiness topics; hiring, training, and employee development in small and family businesses; finance and accounting functions in small and family businesses; intellectual property and forms of business ownership; family entrepreneurship strategies; and franchising strategies. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior status and an overall minimum GPA of 2.5 or higher; Accounting, Business Administration, Finance, HR Management, Management, Marketing major or minor, Org Lead major with a BUS ADM emphasis, or Entrepreneurship certificate  
Fall and Spring.

**ENTRP 486. Design Thinking and Developing Business Models. 3 Credits.**

Studying design thinking and business models is crucial for entrepreneurs, managers, and designers seeking to develop innovative solutions that address real-world problems. It enables them to approach problem-solving in a structured and human-centered way, focusing on the needs and wants of users. In this course, students will learn how to create a business model, refine that model, and develop a plan for a new venture. Students will learn about several different tools for launching for-profit companies, creating social enterprises, or creating value within existing companies. Students will learn to use tools such as Idea Napkin, Ad-Libs, Value Proposition Canvas, Business Model Canvas, Lean Model Canvas, Blitzscaling Canvas, etc., to create innovative business models. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: ENTRP 272, and an overall minimum GPA of 2.5  
Spring.

**ENTRP 488. Minimum Viable Product and New Product Development. 3 Credits.**

Studying Minimum Viable Product and New Product Development is crucial for future entrepreneurs and product managers as it teaches essential principles and techniques for developing and launching successful products, reducing risk and cost while accelerating speed to market. Mastery of these concepts is essential for increasing revenue and customer satisfaction in today's competitive business environment. Students will learn how to develop new physical products through a formal process. Throughout the course, students learn how an abstract idea can be transformed into concrete product concepts that will in turn be translated into tangible working prototypes. Students will create minimum viable products related to their ideas by the end of the course.

Fall Only.

**ENTRP 491. Advanced Entrepreneurial Marketing. 3 Credits.**

This course is designed to be a highly engaging, hands-on course to develop marketing skills that drives success for entrepreneurs and small businesses. Advanced Entrepreneurial Marketing will create an accurate portrayal of the effectiveness of strategic marketing in today's highly competitive marketplace. It's designed to instruct learners how to create, develop, and execute marketing strategy and tactics to grow a successful business. The student will gain insights essential for marketing their entrepreneurial venture using innovative and financially responsible marketing tactics. The student will create effective marketing communication materials suitable for different media including analog and digital for use in their entrepreneurial operation.

Spring.

**ENTRP 492. Social Entrepreneurship. 3 Credits.**

Social entrepreneurship as a field of study equips individuals with the skills to create innovative solutions for societal issues while generating financial returns. By fostering sustainable business models that prioritize social and environmental impact, it holds power to bring about positive change on a global scale. This course introduces social entrepreneurship and how it can be used as a tool for social change. Students will learn about the characteristics of social entrepreneurship, the role of innovation and creativity in creating sustainable social ventures, and how to design, implement and evaluate social impact strategies.

Spring.

**ENTRP 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Overall minimum GPA of 2.5

Fall and Spring.

**ENTRP 496. Project/Research Assistantship. 1-6 Credits.**

The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Overall minimum GPA of 2.5

Fall and Spring.

**ENTRP 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. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Overall minimum GPA of 2.5.

**ENTRP 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: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**ENTRP 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Environmental Science (ENV SCI)

### Courses

**ENV SCI 102. Introduction to Environmental Sciences. 3 Credits.**

Examines the interrelationships between people and their biophysical environment, including the atmosphere, water, rocks and soil, and other living organisms. The scientific analysis of nature and the social and political issues of natural resource use.

Fall and Spring.

**ENV SCI 103. Introduction to Environmental Sciences Lab. 1 Credit.**

Laboratory course to accompany ENV SCI 102

P: ENV SCI 102 or concurrent enrollment.

**ENV SCI 105. Scientific Literacy. 3 Credits.**

The word 'science' comes from the Latin for 'to know.' But how does science actually 'know'? And how can we know what to know? In this course, you will learn about the scientific process beginning with its origin. We'll learn about how scientific knowledge is created and communicated, and most importantly how to make evidence-based decisions about scientific knowledge in our daily lives.

Fall and Spring.

**ENV SCI 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**ENV SCI 203. 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.

Fall and Spring.

**ENV SCI 220. Sustainability Strategies and Tools for Addressing Climate Change. 3 Credits.**

This course delves into the critical issue of climate change, exploring both the strategies and tools necessary for building a sustainable future. Students will investigate the scientific foundations of climate change, understand its far-reaching impacts, and analyze the effectiveness of various mitigation and adaptation strategies. The course will cover renewable energy technologies, sustainable agricultural practices, urban planning, policy frameworks, and innovative tools like life cycle assessment and environmental impact assessment. Through a blend of theoretical knowledge, and practical applications, students will be equipped to tackle climate challenges and contribute to a resilient, sustainable world.

Fall and Spring.



**ENV SCI 239. Scientific Writing. 3 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. Scientific writing will prepare students to be competent technical and professional writers, both for the scientific community and the general public. Students will learn how to construct well researched and organized papers and lab reports that meet proper grammar guidelines. This will include appropriate use of figures and tables in technical communications. Students will also learn how to write technical directions for assembly and use of equipment

P: Declared major in Biology, Chemistry, Environmental Science, Geoscience, or Water Science AND WF 100 with a C or better, or WF 164 with a C or better, or ACT English score of 25 or higher, or SAT reading score of 32 or higher.

Fall and Spring.

**ENV SCI 250. Introduction to Geographic Information Systems (GIS). 3 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.

**ENV SCI 260. Energy and Society. 3 Credits.**

The issues relating energy and society rather than energy technology per se: global energy flows; sources of energy; energy-related problems, policy and conservation; energy growth; future scenarios.

Fall and Spring.

**ENV SCI 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**ENV SCI 301. Radioactivity: Past, Present, and Future. 3 Credits.**

Radioactive isotopes play a significant role in many aspects of the natural and human environments. People are affected throughout their lives by natural and anthropogenic isotopes at local, national, and global scales. From radon in houses and radium in local drinking water supplies to fallout from Chernobyl, humans are directly impacted through health, economic, and technological pathways.

REC: HS chemistry or earth science, or Geosci 102 with at least a C grade

Fall Only.

**ENV SCI 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 Fate and Transport. 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 or MATH 202 with at least a C grade AND BIOLOGY 201/202 with at least a C grade

Spring.

**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 CHEM 212 with at least a C grade; REC: GEOSCI 202.

Fall Only.

**ENV SCI 330. Hydrology. 3 Credits.**

Study of the principal elements of the water cycle, including precipitation, runoff, infiltration, evapotranspiration and ground water; applications to water resource projects such as low flow augmentation, flow reregulation, irrigation, public and industrial water supply and flood control.

P: MATH 104 with at least a C or higher math course

Fall Only.

**ENV SCI 334. Solid Waste Management. 3 Credits.**

This course will focus on technical concepts of solid waste management related to the design and operation of landfills, waste-to-energy systems, composting facilities, recycling facilities, and other emerging waste management technologies.

P: ET 201

Spring Even.

**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 & BIOLOGY 202 with at least C grades

Spring.

**ENV SCI 336. Environmental Statistics. 3 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 Only.

**ENV SCI 337. Environmental GIS. 3 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: ENV SCI 250 with at least a C grade. REC: GEOSCI 202

Fall Only.

**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, MATH 202 or MATH 203

Fall Only.

**ENV SCI 339. Scientific Writing. 3 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 351. Web GIS and Applications. 3 Credits.**

This course will focus Web GIS for addressing spatial patterns/processes in environmental science and policy, including but not limited to StoryMaps, ArcGIS Online, widgets, online dashboards and other formats. Basic CAD (computer aided design) using Sketchup software will also be introduced. GIS applications tailored to public and environmental policy will be emphasized, e.g., tax base analysis, property mapping, natural resources inventory, natural hazards, and emergency management.

P: ENV SCI 250

Spring.

**ENV SCI 389. Colloquium in Environmental Sustainability & Business. 3 Credits.**

Required component of the Sustainability Minor. Focus is placed upon the nature of systems thinking systems dynamics, and problem solving. Will address systems dynamics in natural world policy creation, human creativity and the arts, and business decision making. Course is non-repeatable for credit.

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 a C or higher OR PHYSICS 202 with a C or higher OR ENGR 210 with a C or higher or ENGR 308 with a C or higher

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 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.

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. Research Experience in Environmental Science. 4 Credits.**

This course provides a dedicated research experience for environmental science students. Students are guided through the process of developing a research idea using sound experimental design practices, implementing the research in field/laboratory settings, building a story with graphical and statistical analyses and producing an undergraduate like thesis that will be formatted for submission to a scientific journal. Research topics vary.

P: BIOLOGY 306 with at least a C grade or ENV SCI 305 with at least a C grade, MATH 260 with at least a C grade and ENV SCI 239 with at least a C grade

Fall Only.

**ENV SCI 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**ENV SCI 490. EMBI Co-Op/Experience. 3 Credits.**

Required component of the Certificate in Environmental Sustainability and Business. Enrolled students will be placed by EMBI in a business, nonprofit, or governmental setting that involves interdisciplinary problem solving within an environmental sustainability context. This will be a special co-op/ internship/project experience. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: Enrollment in Environmental Sustainability and Business certificate program.

Fall and Spring.

**ENV SCI 491. Senior Thesis/Research in Environmental Science. 3-4 Credits.**

A project-based capstone experience where individual students address a specific aspect of the environmental sciences through the use of scientific and mathematical skills.

P: BIOLOGY 306 with at least a C grade or ENV SCI 305 with at least a C grade; MATH 260 with at least a C grade; instr consent. REC: BIOLOGY 306 and ENV SCI 305.

Fall and Spring.

**ENV SCI 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**ENV SCI 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. All internships must be taken P-NC. Course is repeatable for credit.

P: jr st and gpa > or = 2.75 and completion of 3 UL cses in maj or min.

Fall and Spring.

**ENV SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript. Course is repeatable for credit.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**ENV SCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Environmental Policy & Planning (EPP)

### Courses

**EPP 102. Environment and Society. 3 Credits.**

Complex, energy-intensive societies are facing multiple challenges due to finite resources. This course examines the relationship between humans and the biophysical environment at local, national, and global levels. Emphasis is given to the impact of personal attitudes, cultural beliefs, economics, politics, technology and available resources on environmental problems and solutions. We use systems analysis to highlight how our biophysical environment conditions our human endeavors, and how we need to create resilient social systems to achieve a sustainable society.

FSS.

**EPP 103. Environment and Society Lab. 1 Credit.**

A natural science course describing the human alteration of the physical environment with the resulting effects on air, water, soils, vegetation, animal life, & humans. Field trip(s) may be required. Meets DPI requirements for environmental education at some UW baccalaureate institutions.

Spring.

**EPP 152. Introduction to Graphic Display and Planning. 3 Credits.**

This course introduces students to understand large information conveyed in graphics and to develop skills to create graphic design for the purpose of displaying, use and conveying/projecting accurate graphics. the course will give students the basic tools to successfully convey accurate messaging and vision.

Fall Only.

**EPP 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**EPP 254. Introduction to Designing with Communities and Neighborhoods. 3 Credits.**

The main objective of the course is to introduce students to the fundamentals of urban design and allow students to engage with and critically assess design elements that create places that foster community identity and place making. The course addresses the vexing problems in residential, commercial, office, recreational and public areas in small cities.

Fall Only.

**EPP 323. Sustainable Land Use. 3 Credits.**

How do we develop walkable, equitable communities and sustainable land use plans for urban and rural areas? This course uses a systems perspectives analysis of land use control methods, legal foundations, social implications, environmental impacts, financial influences, civil and property rights, cumulative impacts, and more. Land use is an increasingly contested topic due to external financial interests, growth pressures, shifting populations, and conditions placed on personal or property rights. Sustainable land use planning requires understanding the interplay between humans and the landscapes we live in or draw from and the constraints or opportunities we work with to fashion more sustainable land use at the local, regional, and national level.

P: None. REC: PU EN AF 202 or ENV SCI 102

Fall Even.

**EPP 324. Transitioning to Sustainable Communities. 3 Credits.**

Rising energy costs and climate change mean that we need resilient communities based on localizing inputs/outputs to support health, jobs, housing, transportation, schools, agriculture and city services. We emphasize the many facets of human settlements and the increasingly limited biophysical resources we depend on to structure our social, economic, and environmental systems, and how to make them self-sustaining, energy-efficient, and reliant on local control for job creation, wealth creation, food production and other land use issues. Systems analysis allows us new perspective of the complexities surrounding these interconnected problems. Applying innovative strategies in every sector of daily life will make communities more resilient as they face higher energy costs and climate variability.

P: None. REC: PU EN AF 202 or ENV SCI 102

Fall and Spring.

**EPP 350. 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 PUB ADM 202 or SOCIOL 100

Fall Odd.

**EPP 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.

**EPP 412. Urban and Regional 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.

Spring.

**EPP 431. Building Sustainable Landscapes. 3 Credits.**

This course covers the principles, materials, and methods you need to know for building a wide variety of outdoor sustainable projects to create resilient environments. Topics cover remediating brownfields, healing injured soils, stabilizing slopes, using living materials, collecting and reusing water, raingardens and swales, porous pavements, materials origin and fate, embodied energy and maintenance energy costs, native plants and permaculture designs, urban agriculture and wildlife corridors, using light and darkness to your advantage, reducing noise, sustainable inputs to landscape maintenance, certification or other ways of measuring sustainable outcomes, pre-construction considerations, and more. Students will apply these concepts in a small demonstration project. No previous construction experience required.

Fall Odd.

**EPP 452. Planning Theory and Methods. 3 Credits.**

Planning for public and not-for-profit agencies: theory and practical significance of planning; the political and administrative setting of planning operations; and methods of planning analysis such as strategic planning.

P: BUS ADM 220 or PSYCH 205 or MATH 260

Fall Even.

**EPP 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. Course is repeatable for credit if topics differ. May be taken 2 times for a total of 6 earned credits.

P: written cons of inst.

**EPP 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.

**EPP 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**EPP 496. Project/Research Assistantship. 1-6 Credits.**

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

**EPP 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.

**EPP 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.

**EPP 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!

# 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 such as AutoCAD to generate 2D engineering graphics, including engineering drawings, that meet industry standards.

P: MATH 101 with at least a C grade or WPT-MFND score >465 and WPT-AALG score >525, AND in Mechanical, Electrical, or Environmental Engineering Technology major or Electrical Engineering major or Electrical Engineering Principles Certificate

Fall and 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: MATH 104 with a C or higher, and Electrical Engineering Technology major or Electrical Engineering major or Electrical Engineering Principles Certificate

Spring.

### **ET 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

### **ET 201. Introduction to Environmental Engineering. 3 Credits.**

This course explores applications of environmental engineering in determining sustainable methods for reducing air and water pollution and managing and solid and hazardous waste. This includes sources of air and water pollution, health and environmental effects of pollution, and regulations governing pollution. Sources, disposal, regulations, and health and environmental effects of solid waste are also covered. The economic, social, and environmental aspects of sustainable solutions are considered.

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 250. Continuous Signals and Linear Systems. 3 Credits.**

This course provides an introduction to signals and systems analysis techniques for continuous-time signals and linear systems. Topics include continuous-time signals and linear systems definitions and properties as well as signal processing techniques and applications. Signals and systems representations and applications to circuit analysis will also be performed using MATLAB.

P: MATH 203 with a C or higher, and declared major in Electrical Engineering Technology

Fall Only.

### **ET 330. Hydrology. 3 Credits.**

Study of the principal elements of the water cycle, including precipitation, runoff, infiltration, evapotranspiration and ground water; applications to water resource projects such as low flow augmentation, flow reregulation, irrigation, public and industrial water supply and flood control.

P: MATH 104 with at least a C or higher math course

Fall Only.

### **ET 331. Advanced 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: ET 203

Spring.

**ET 334. Solid Waste Management. 3 Credits.**

This course will focus on technical concepts of solid waste management related to the design and operation of landfills, waste-to-energy systems, composting facilities, recycling facilities, and other emerging waste management technologies.

P: ET 201

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: ENGR 328 with a C or higher, and ENGR 329 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: ENGR 328 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 C or higher

Spring.

**ET 360. Project Management. 3 Credits.**

This course presents an overview of project management with an emphasis on engineering projects. Topics include pre-construction planning, project scheduling systems, critical path management, risk and effects analysis, and failure models.

P: Junior standing and either Electrical, Environmental, or Mechanical Engineering Technology major OR junior standing and Mechanical, or Electrical Engineering major

Fall and Spring.

**ET 390. Mechatronics. 3 Credits.**

This course provides the knowledge and skills for the design and development of mechanical systems that utilize microcontrollers (dedicated control computers) in order to achieve performance that is not possible with purely mechanical systems, for example: feedback control, automatic acquisition of performance data, adaptive behavior, and interacting with operators (user interface). Students will gain lab-based, hands-on exposure to the design of mechatronic systems including: real-time programming of a microcontroller; selecting sensors and actuators and interfacing them to a microcontroller; and the development and testing of an actual mechatronic system. In addition, students will gain an appreciation for key aspects of mechatronic systems including: sampling rates, noise, interrupts, open and closed-loop control, system integration, and the importance of good documentation.

P: ME 204 with a C or higher, and ME 308 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: Senior standing in Environmental Engineering Technology or Electrical Engineering Technology or Mechanical Engineering Technology

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 a C or higher OR PHYSICS 202 with a C or higher OR ENGR 210 with a C or higher or ENGR 308 with a C or higher

Spring.



**ET 420. Lean Processes. 3 Credits.**

This course focuses on the time value of money as well as operating a business using lean manufacturing with the Six Sigma and other operational models. Topics covered include decisions under risk, best alternative using economic models, present worth analysis, rate of return, and cost benefit analysis.

P: ET 101, ET 360 or concurrent enrollment; Major in Environmental Engineering Tech.

**ET 424. Hazardous and Toxic Materials. 3 Credits.**

The handling, processing, and disposal of materials which have physical, chemical, and biological properties that present hazards to human, animal, and plant life; procedures for worker safety and for compliance with regulations. The metals and nonmetals, carcinogens, radioactive materials, and pathogenic human, animal, and plant wastes.

P: CHEM 212

Spring Odd.

**ET 430. Sustainable Agricultural Management. 4 Credits.**

Quantitative study of runoff and sediment transport on agricultural lands. Engineering of structural and non-structural practices used in the management of water, soil, and nutrients on agricultural lands. Student will get acquainted with the practices used on agricultural landscapes to insure the quantitative and qualitative sustainability of soil and water resources, and will acquire the skills needed to engineer these practices through hands-on design approaches.

P: MATH 104 with a C or higher and ENV SCI 320 with a C or higher or Graduate status

Spring Odd.

**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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**ET 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.

**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.

## Finance (FIN)

### Courses

**FIN 182. Introduction to Personal Finance. 3 Credits.**

The Personal Financial Planning course is designed to provide students across all majors with fundamentals of personal finance. Topic coverage includes cash management (spending plan, "budget"), credit management, insurance protection & purchases, employee benefit analysis & selection, long-term savings & investments, tax planning, and identity theft protection. Participants apply a systematic process that evaluates their personal financial situation, develops goals, and creates a plan to meet their goals.

Fall and Spring.

**FIN 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.

**FIN 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.

**FIN 343. Corporation Finance. 3 Credits.**

Organization of basic financial management functions and principles for business; management of fixed and working capital; short-term and long-term financial planning through investment and financing decisions; domestic and international money and capital markets; ethical issues relating to business financial management.

P: ACCTG 201

Fall and Spring.

**FIN 344. Real Estate Principles. 3 Credits.**

Nature of real estate ownership, importance of land contracts, title transfer, and mortgage instruments; real estate valuation, finance and investment; impacts of taxation, insuring, marketing, and laws affecting real estate (not intended to prepare students for real estate licensing examination).

P: FIN 343 and an overall minimum GPA of 2.5

Spring.

**FIN 345. Risk Management and Insurance. 3 Credits.**

Nature of risks, principal techniques of risk management and the bases for making decisions with respect to the management of personal and business risks.

P: FIN 343 and an overall minimum GPA of 2.5

Fall Only.

**FIN 350. Psychology of Personal Finance. 3 Credits.**

CFP Board defines the psychology of financial planning as: "identifying and responding to attitudes, behaviors, and situations that impact decision-making, the client-planner relationship, and the client's financial well-being." The psychology of financial planning is more than client psychology or behavioral finance and includes the interaction of planner characteristics with client characteristics. It is the system within which clients planning for their financial goals and financial well-being are aided by financial planners who possess their own history, biases, and values that must be recognized and sometimes subsumed in service to the client. Financial Planners And Professionals At All Stages Of Their Careers Can Gain A Better Understanding Of People's Financial Decision-Making, As Well As Benefit From Insights To Build Further And Strengthen Client-Planner Relationships.

P: An overall minimum GPA of 2.5

Spring.

**FIN 370. Investment Operations and Securities Regulation. 3 Credits.**

This course provides investment instruction in operations, trading, markets and regulation. Content directly mirrors the actual FINRA examination.

Primary study topics include Understanding Products and Their Risks; Understanding Trading, Customer Accounts, and Prohibited Activities; Knowledge of Capital Markets; and Overview of Regulatory Framework. At the end of the course material, students will be prepared for the FINRA SIE Examination.

P: FIN 343 and an overall minimum GPA of 2.5

Fall Only.

**FIN 415. Employee Benefits and Retirement Planning. 3 Credits.**

Fundamentals of employee benefits and retirement planning. The course includes an examination of anticipated retirement needs and potential qualified and non-qualified options that might be available. Topics include corporate and individual retirement plans, planning strategies to meet client goals, retirement income management, an integrated framework for the analysis of needs and the fulfillment of goals in the workplace. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: FIN 343 and an overall minimum GPA of 2.5

Fall Only.

**FIN 425. Estate and Trust Planning. 3 Credits.**

Application of estate planning methodologies and policies to personal financial planning. Studies the legal, tax, financial, and non-financial aspects of this process, and covers topics such as trusts, will, advance medical directives, charitable giving, wealth transfers, and related taxes.

P: FIN 343 and an overall minimum GPA of 2.5

Spring.



**FIN 442. Principles of Investment. 3 Credits.**

Fundamental concepts, theories, and techniques relating to investing; securities markets, investment vehicles and environments, economic, industry and security analyses, portfolio construction and management; active and passive investment strategies; global investment perspectives and their impacts on investors; blend of facts and theories relating to traditional and modern portfolio approaches; ethics in investment decisions; applied computer-assisted investment decisions. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: FIN 343 and BUSAN 220 or MATH 260 or PSYCH 205 and an overall minimum GPA of 2.5

Fall and Spring.

**FIN 445. International Financial Management. 3 Credits.**

Conceptual framework and applications of financial management decisions of multinational firms in a global setting; survey of the international financial environment; determinants of international portfolio and direct investment capital flows; assessment and management of impacts of foreign exchange and hedging strategies; impacts of international factors on capital budgeting and financial structure decisions; multinational money and capital markets; taxation of international business.

P: FIN 343 and an overall minimum GPA of 2.5

Spring.

**FIN 446. Advanced Corporation Finance. 3 Credits.**

Short-term and long-term financial decisions under risk and uncertainty; financial analysis planning and control; in-depth coverage of theories and applications of capital structure, cost of capital, dividend policies; working capital management; long-term financing decisions; valuation of mergers and acquisitions; international capital budgeting. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: FIN 343 and an overall minimum GPA of 2.5

Fall and Spring.

**FIN 447. Derivatives. 3 Credits.**

Coverage of derivative products such as: forwards, futures, options, and swap contracts on commodities, interest rates and equities, as well as the markets in which they trade. Fundamental pricing relationships, trading strategies, and risk management, use of the Binomial Options pricing model and the Black-Scholes model to price derivatives. Exploration of different options strategies, put-call parity, and role of derivatives in portfolio management, option Greeks such as: delta, gamma, vega, theta, and rho.

P: FIN 343 and Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5.

Spring.

**FIN 450. Bank Administration and Management. 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.

P: FIN 343 and an overall minimum GPA of 2.5

Fall Only.

**FIN 460. Security Analysis and Portfolio Management. 3 Credits.**

This course delves into analysis of securities and their role in portfolio construction. Students in this course conduct in-depth financial analysis of the various classes of securities, macroeconomic factors, as well as the industries and their constituent firms. This course also covers comprehensive study of investment management from the perspective of the professional institutional investors. Concepts from security analysis are factored into the dynamics of strategic and tactical investment decision making criteria. Among the topics included are security selection, macroeconomic and industry analysis, portfolio optimization, risk management, portfolio management & rebalancing, and performance evaluation. The course uses FactSet and Interactive Brokers platforms for research and trade execution purposes.

P: FIN 343 and an overall minimum GPA of 2.5

Spring.

**FIN 475. Financial Plan Development. 3 Credits.**

Synthesize and apply comprehensive financial planning concepts and techniques to simulated or actual clients in areas of household accounting, taxes, investments, risk management, retirement planning and estate planning. Students will prepare comprehensive, professional level personal financial plans. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: ACCTG 410, FIN 343, FIN 345, FIN 415, FIN 425, and FIN 442 and an overall minimum GPA of 2.5

Spring.

**FIN 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.

**FIN 480. Student Managed Investment Fund. 3 Credits.**

The purpose of this course is to provide each student with real world and hands-on experience in security analysis and portfolio construction through the management of a Student Managed Investment Fund (SMIF). Students will gain practical experience in securities analysis and portfolio management. Students in this course perform analysis, make investment decisions on the real portfolio for the SMIF, evaluate the fund's performance, and report to external parties including the SMIF Advisory Board. Faculty and professional mentors will train students in the application of fundamental analysis, security selection, and performance evaluation through several lecture/workshop sessions. Increased interaction with the Green Bay area investment community through this class will provide enhanced learning opportunities and exposure to recent industry practices. Course may be repeated for credit; may be taken 3 times for a total of 9 credits. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: FIN 343 and an overall minimum GPA of 2.5

Fall and Spring.

**FIN 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Overall minimum GPA of 2.5

Fall and Spring.

**FIN 496. Project/Research Assistantship. 1-6 Credits.**

The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**FIN 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. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**FIN 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: Junior standing and an overall minimum GPA of 2.5.

## First Nations Studies (FNS)

### Courses

**FNS 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman

Fall Only.

**FNS 201. 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 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.

Fall and Spring.

**FNS 211. Tutoring and Mentoring First Nations Youth in K-12. 3 Credits.**

In this is a service learning course that places college students in the field in K-12 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-12 with an emphasis on First Nations education. Through extensive field work in K-12 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 and tribal schools, students must pass a back ground check, complete a TB test screen, complete DPI mandatory reporter training.

Fall Only.

**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.

Fall and Spring.

**FNS 225. Introduction to First Nations Studies. 3 Credits.**

This introductory course to First Nations Studies. Course focuses on the history, culture, sovereignty, and contemporary status of Indigenous Nations in the Great Lakes region. The course offers Indigenous cultural contexts through both information and class structure. The Indigenous core value of personal sovereignty is practiced in the course through the application of respect, reciprocity, and relationship.

Fall and Spring.

**FNS 274. Wisconsin First Nations History. 3 Credits.**

An in-depth exploration of one First Nation located in Wisconsin: Anishinaabe (Ojibway), Oneida, Menominee, Potawatomi or Mohican. This course explores the history, culture, and contemporary status of one of these nations. This course is repeatable for credit if topic differs.

**FNS 295. Special Topics in First Nations Studies. 3 Credits.**

This is an introductory course in First Nations Studies. It is a variable content course focusing on one or more theme in the discipline. Course topics may include Indigenous foods, Indigenous ethics, Indigenous plant knowledge, land-based learning, etc. The course is repeatable for credit; may be taken 2 times for a total of 6 credits.

Fall and Spring.

**FNS 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**FNS 301. Oneida Language I. 3 Credits.**

A course on the Oneida language offered with the aid of indigenous speakers. Emphasis varies with student interest. Tools and resources for further independent study are stressed.

Fall and Spring.

**FNS 302. Oneida Language II. 3 Credits.**

A course on the Oneida language typically offered in the Oneida community with the aid of native speakers. Emphasis varies with student interest. Tools and resources for further independent study are stressed.

P: FNS 301.

Fall and Spring.

**FNS 303. Oneida Language III. 3 Credits.**

A course on the Oneida language typically offered in the Oneida community with the aid of native speakers. Emphasis varies with student interest. Tools and resources for further independent study are stressed.

P: FNS 302.

Fall and Spring.

**FNS 304. Oneida Language IV. 3 Credits.**

A course on the Oneida language typically offered in the Oneida community with the aid of native speakers. Emphasis varies with student interest. Tools and resources for further independent study are stressed.

P: FNS 303.

Fall and Spring.

**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.

Fall and Spring.

**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.

Fall and 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 or WOST 241

Spring.

**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 History. 3 Credits.**

An in-depth exploration of one First Nation located in Wisconsin: Anishinaabe (Ojibway), Oneida, Menominee, Potawatomi or Mohican. This course explores the history, culture, and contemporary status of one of these nations.

**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 FNS 226

Spring Odd.

**FNS 391. First Nations Studies Capstone Seminar. 3 Credits.**

This course is designed for students who already have a background in American Indian Studies. It is a variable content course which includes such topics as contemporary issues, environmental justice, American Indian law, and repatriation. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: FNS 225 and 1 other 3 credit course in FNS

Fall Only.

**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: FNS 225 or DJS 204 or DJS 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

Fall Even.

**FNS 395. Special Topics in First Nations Studies. 3 Credits.**

This course is designed for students with prior learning in First Nations Studies. This variable content course offers an in-depth study of topics such as Indigenous wellness, Indigenous teaching & learning, First Nations ethnobotany, Indigenous geography, Indigenous astronomy and star maps, etc. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 credits.

P: 3 prior credits in FNS. REC: FNS 225 and FNS 224

Spring.

**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 Indigenous knowledge bearers and Elders in a tribal setting. Course is repeatable for credit; may be taken 3 times for a maximum of 12 earned credits.

P: FNS major or minor; junior or senior status; 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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**FNS 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**FNS 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## French (FRENCH)

### Courses

**FRENCH 100. SNC Consortium. 4 Credits.**

St. Norbert College course, extended to UWGB students through a consortium agreement.

**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.**

In this second-semester introductory French course students will continue developing basic skills in speaking, listening, reading, and writing while discussing aspects of French-speaking cultures.

P: none; REC: 1 yr h.s. or 1 sem college French.

Spring.

**FRENCH 200. SNC Consortium. 4 Credits.**

St. Norbert College course, extended to UWGB students through a consortium agreement.

**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 222. Special Topics. 3 Credits.**

French 222 is an intermediate-level course meant to serve as an extension of learning that took place in French 202. French 222 has an emphasis on continued language proficiency in French and includes the study of different cultural topics, including literature, film, and other cultural products and practices.

P: FRENCH 202

Fall and Spring.

**FRENCH 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**FRENCH 300. SNC Consortium. 4 Credits.**

St. Norbert College course, extended to UWGB students through a consortium agreement.

**FRENCH 320. Intermediate Composition and Conversation. 3 Credits.**

Development of fluency through classroom practice in conversation and composition.

P: none; REC: 4 yrs h.s. or 4 sem college French.

Fall Only.

**FRENCH 325. Advanced French Conversation and Composition. 3 Credits.**

Continues development of fluency through intensive practice and study of the spoken and written language. Stresses accurate use of grammatical structures and sensitivity to differences in style, tone and levels of language from colloquial to formal.

P: FRENCH 320

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 320

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 320

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 320

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 320

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 320

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 320

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 320

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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

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. Course is repeatable for credit.

Fall and Spring.

**FRENCH 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

**FRENCH 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Geography (GEOG)

### Courses

**GEOG 102. World Regions and Concepts: A Geographic Analysis. 3 Credits.**

Introduction to regional geography, exploring the relationship between physical ecologies and human ecologies. The course covers the regional geographies of the earth's major geographic realms.

Fall Only.

**GEOG 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**GEOG 209. Landscapes of North America. 3 Credits.**

A general survey of the characteristics and origins of the major natural/physical regions of North America, with emphasis on national parks and monuments and other public areas. Class work will utilize remotely sensed imagery (aerial and satellite) to analyze each major area. Field Trips may be required.

Spring Even.

**GEOG 210. Human Geography and Concepts. 3 Credits.**

This course introduces you to some of the major topics and models studied in human geography. Specifically, this course will examine the global patterns of population, culture, economic and political systems, and the interconnectedness at the international, national, and sub-national scales.

Fall Only.

**GEOG 211. American Ethnic Minorities. 3 Credits.**

The geography of American ethnic minority groups. An introduction to ethnic geography that examines the experience of people of African, Asian, Hispanic, and Native heritage in the United States and Canada. These ethnic minorities are studied using the major themes of cultural geography such as spatial distribution, migration patterns and locational patterns.

**GEOG 235. Wisconsin Landscapes and Regions. 3 Credits.**

The geography of Wisconsin's natural and cultural landscapes with an emphasis on their sequential development and changing patterns of land use and settlement. Natural resources, population, land utilization, and economic development of the state.

**GEOG 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**GEOG 321. Coastal Resources Policy and Management. 3 Credits.**

How shall we manage where land and waters meet? This course analyzes the importance of coastal resources, ranging from Wisconsin to the Great Lakes to our Pacific, Atlantic, and Gulf coasts, and addresses how rising water levels and stronger storms combine with increased human pressure to force difficult choices on communities to adapt. Using a resiliency framework, we will study biophysical and human development issues on land development, overuse, risk, and their consequent human, environmental, aesthetic, and nearshore effects; climate change impacts on water levels and storms; and numerous case studies of how communities are changing their policy, planning, and redevelopment strategies to adapt to current and future conditions.

REC: EPP 102

Fall Only.

**GEOG 341. Urban Geography. 3 Credits.**

The course will focus on the different perspectives within contemporary urban geography and introduce students to social constructions of urban morphology and the interaction between social forces and spatial organization.

Spring.



**GEOG 351. Elements of Cartography. 3 Credits.**

Principles of basic cartography, including problem identification and clarification, data collection and analysis, compilation, generalization, and symbolization; presentation of data on medium and large scale maps.

P: sophomore standing

Spring.

**GEOG 353. Air Photo Interpretation. 3 Credits.**

Techniques for the interpretation of human and natural land use. Wide variety of aerial photo formats and scales are used. Vertical and oblique photos, satellite images, and Internet web sites incorporated into course material.

P: sophomore standing

Fall Only.

**GEOG 370. Geography of South America. 3 Credits.**

A survey course which will explore the physical features, resources, people, and the political economy of the American southern hemisphere.

Fall Even.

**GEOG 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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**GEOG 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**GEOG 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Geoscience (GEOSCI)

### Courses

**GEOSCI 102. Natural Hazards. 3 Credits.**

Explores the dynamic character of the Earth System by characterizing and understanding the causes and consequences of natural hazards. Hazards considered will include earthquakes, tsunamis, volcanic hazards (local, regional, global scales), meteorological hazards (hurricanes, tornadoes, flooding, coastal erosion), and landslides.

Fall and Spring.

**GEOSCI 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

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. Introduction to Weather & 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 223. Introduction to Weather and Climate Laboratory. 1 Credit.**

Laboratory course to accompany GEOSCI 222. Application of physical principles learned in lecture through a combination of data analysis, problem solving, and experimentation.

P: conc enr in GEOSCI 222

Spring.

**GEOSCI 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**GEOSCI 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**GEOSCI 301. Introduction to Geoscience Field Methods. 2 Credits.**

A survey of methods of field investigations including description and measurement of rock sequences, introduction to geological mapping, surveying, and writing geological reports.

P: Geosci 202.

Spring Odd.

**GEOSCI 325. Regional Climatology. 3 Credits.**

The elements, controls, and classification of climates; the distribution of climate types over the earth; world patterns of climate.

REC: Geosci 222.

Fall Even.

**GEOSCI 340. Introduction to Mineralogy & Petrology. 4 Credits.**

Explores mineral chemistry and structures, identification, association, and occurrence. Surveys the distribution, chemistry, and mineral associations in relation to tectonic environment to interpret rock forming processes.

P: Geosci 202 with at least a C grade.

Fall Even.

**GEOSCI 350. Structural Geology and Tectonics. 3 Credits.**

How does solid rock deform, and how can this help us understand a dynamic Earth system? Students will be introduced to the geometric, kinematic and dynamic aspects of structures in the Earth's crust. We will utilize basic methods of structural geology to better understand the global plate tectonic processes that shape our world, from earthquakes to mountain ranges.

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 421. Geoscience Field Trip. 1-3 Credits.**

Intensive three or four-day field study tour of the geology, soils, and landscapes of Wisconsin and/or surrounding states. Each offering will focus on a different geological theme and will focus on a specific region. Cost of transportation, guidebook, meals and lodging borne by student. Course is repeatable for credit if topics differ; may be taken 6 times for a total of 9 credits.

P: GEOSCI 202 with at least a C grade OR Consent of the instructor.

Fall and Spring.

**GEOSCI 432. Hydrogeology. 3 Credits.**

Introduction to the geological and physical principles governing ground water flow. Description of aquifer properties, chemical processes, equation of flow, well hydraulics, and environmental concerns.

P: GEOSCI 202 with at least a C grade; REC: ENV SCI 330 with at least a C grade; MATH 202.

Spring.

**GEOSCI 450. Ore Deposits. 3 Credits.**

This course is a survey of economically important Earth materials. How do ore bodies form? What are they used for? What strategies can we use to extract the ore? Additionally, we will also focus on the environmental impacts from extraction and what can be done as possible remediation strategies.

P: GEOSCI 202. REC: GEOSCI 340

Spring Even.

**GEOSCI 470. Glacial Geology & Landscapes. 3 Credits.**

This course explores the extremes in environmental behavior which characterize the last 2.6 million years of Earth's history during the Pleistocene and Holocene Epochs. The course will provide students with the skills necessary to be able to recognize and describe glacial landforms, the materials of which they are composed, and the geologic processes by which they form.

P: GEOSCI 202 with at least a C grade; REC: GEOSCI 203.

Fall Even.

**GEOSCI 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

**GEOSCI 491. Senior Thesis/Research in Geoscience. 3 Credits.**

A project-based capstone experience where individual students address a specific aspect of geoscience through the use of scientific and mathematical skills.

P: Senior standing, MATH 260 with C or better, instructor consent. REC: GEOSCI 402, 432, or other appropriate courses, depending upon focus of thesis project.

Fall and Spring.

**GEOSCI 492. Special Topics in Geoscience. 1-4 Credits.**

Topics not covered by regular courses, such as geomorphology, geology of Wisconsin, laboratory methods, and others. Offerings of different topics can be repeated for credit.

P: None. REC: GEOSCI 202.

**GEOSCI 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**GEOSCI 496. Project/Research Assistantship. 1-6 Credits.**

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

**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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**GEOSCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**GEOSCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## German (GERMAN)

### Courses

**GERMAN 101. Introduction to the German Language I. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in German.

Fall Only.

**GERMAN 102. Introduction to the German Language II. 4 Credits.**

In this second-semester introductory German course students will continue developing basic skills in speaking, listening, reading, and writing while discussing aspects of German-speaking cultures.

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 222. Special Topics. 3 Credits.**

GERMAN 222 is an intermediate-level course meant to serve as an extension of learning that took place in GERMAN 202. GERMAN 222 has an emphasis on continued language proficiency in German and includes the study of different cultural topics, including literature, film, and other cultural products and practices.

P: GERMAN 202

Fall and Spring.

**GERMAN 285. Study Abroad: Germany. 3-15 Credits.**

P: cons of instr & prior trip arr & financial deposit.

**GERMAN 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**GERMAN 320. Intermediate German Conversation and Composition. 3 Credits.**

Development of greater fluency through classroom practice in conversation and composition.

P: none; REC: 4 yrs h.s. or 4 sem college German.

Fall Only.

**GERMAN 325. Advanced German Conversation and Composition. 3 Credits.**

Continues development of fluency through intensive practice and study of the spoken and written language. Stresses accurate use of grammatical structures and sensitivity to differences in style, tone and levels of language from colloquial to formal.

P: GERMAN 320

Spring.

**GERMAN 329. Representative German Authors. 3 Credits.**

Important novels, plays, poems, and essays representative of major eras and movements of German society foster appreciation of the language and understanding of the literature and culture. Includes different styles of writing and differing treatment of recurring themes. Offered in the language.

Course is repeatable for credit if topics differ.

P: GERMAN 320

Fall Only.

**GERMAN 333. Literary Themes. 3 Credits.**

Explores a single theme such as fantasy, war, revolution, love, alienation, through the literature of one or many nations. May be repeated for credit when a different theme is studied.

P: GERMAN 320

Spring Even.

**GERMAN 335. Literary Eras. 3 Credits.**

Studies the works of a number of writers in relation to their time; includes poetry, prose and drama. May be repeated for credit when a different era is studied.

P: GERMAN 320

Spring Even.

**GERMAN 345. Advanced German Grammar. 3 Credits.**

This course will assist students in improving their overall language proficiency by focusing on more challenging aspects of German syntax and semantics.

P: GERMAN 320

Fall Odd.

**GERMAN 350. Major German Drama. 3 Credits.**

Study of German drama either by period or by theme. May be repeated for credit when content is different.

P: GERMAN 320

Spring Odd.

**GERMAN 351. Major German Prose Fiction. 3 Credits.**

Study of German short story and/or novels either by period or by theme.

P: GERMAN 320

Fall Even.

**GERMAN 355. Deutsche Kultur und Landeskunde. 3 Credits.**

Expands students' linguistic and cultural proficiency in German through discussion of German history, politics and the arts.

P: GERMAN 320

Spring Even.

**GERMAN 357. German Cinema. 3 Credits.**

Historical and critical introduction to the work of prominent German filmmakers and to cinematic representations of German culture.

P: None. REC: GERMAN 320

Fall Even.

**GERMAN 358. German Politics and Society. 3 Credits.**

Students will gain insight into and knowledge of the political and cultural issues confronting Germany, Europe's most populous country and its largest economy. This course will examine political structures and institutions as well as contemporary issues that influence German and European politics.

REC: junior or senior standing

Spring Odd.

**GERMAN 420. Business German. 3 Credits.**

Examines business culture and practices in the German speaking world. Practical exercises, including specialized vocabulary for telephoning, writing business correspondence and a German CV, are combined with an analysis of German corporate structures, industry, labor, management, banking, marketing and advertising.

P: GERMAN 320

Spring Even.

**GERMAN 425. German Translation Studies. 3 Credits.**

This course will introduce students to the theory and practice of translating both into and from modern German. Through readings in translation theory and comparative linguistics as well as through group work, students will become aware of the structures and nuances of both languages.

P: GERMAN 320. 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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

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. Course is repeatable for credit.  
Fall and Spring.

**GERMAN 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**GERMAN 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Health Information Mgmt & Tech (HIMT)

### Courses

**HIMT 300. Survey of Contemporary Computing. 3 Credits.**

This course provides a basic overview of contemporary information technology and computers. Topics include computer concepts (e.g., hardware, system architectures, operating systems, etc.), communication technologies, Internet technologies, and data organization/structures. Special emphasis placed on database management systems and data warehousing.

P: HIMT major, Junior standing

Fall and Spring.

**HIMT 301. Digital Literacy in Healthcare. 3 Credits.**

This course provides an overview of medical clinical workflow, with emphasis on inter-professional electronic documentation and functionalities of the electronic health record (EHR). Through hands-on experience, this course advances the students' understanding of the electronic health record, Health IT policies, data and database management systems in support of the EHR.

Fall Only.

**HIMT 310. Healthcare Systems and Organizations. 3 Credits.**

This course provides an overview of how healthcare and public health are organized and how their services are delivered in the United States (US).

Topics to be covered include: public policy (including US health reform initiatives), organization of healthcare systems, components and operation of healthcare organizations including e-health delivery, professional roles and accreditation, legal and regulatory issues including licensure requirements.

P: HIMT major, Junior standing

Spring.

**HIMT 320. Survey of Information Technology in Healthcare. 3 Credits.**

Essential healthcare information technologies (HIT) that are used for healthcare information systems (HISs) are examined. Popular HISs include electronic medical record systems (EMRS), the computerized provider order entry systems, telemedicine, telehealth and e-prescribing.

P: HIMT Major; Junior standing

Fall Only.

**HIMT 330. Healthcare I: Terminology & Body Systems. 3 Credits.**

Specific terminology and vocabulary used by workers in healthcare and public health will be examined. Topics include medical terminology that broadly relates to human anatomy and physiology, body systems and diagnosis, including prefixes, suffixes, roots and combined forms. Topics will also include healthcare taxonomies and nomenclatures (e.g. ICD-9-CM, ICD-10, etc.).

P: Biology 201/202 with a C or better or Hum Biol 102 with a C or better; HIMT Major and Junior standing

Fall and Spring.

**HIMT 340. Ethical issues, Security Management and Compliance. 3 Credits.**

This course introduces three broad subjects: 1) evidence-based medical ethics pertaining to healthcare information management, 2) framework of healthcare information security management including security principles, policies and procedures, security management models, risk assessment, and protection mechanisms, 3) healthcare regulations and compliance with focuses on the legislative systems, policies, and legal environment in the U.S. and the existing health information laws, regulations and standards. Also addressed are the elements and development of compliance programs.

P: HIMT Major; Junior standing

Fall and Spring.

**HIMT 345. Programming and Software Development. 3 Credits.**

Fundamental concepts of programming using a contemporary data analysis language. Topics include variables, conditional execution, functions and methods, iteration, strings, files, and data structures. Applications will be taken from the Healthcare Information Systems.

P: HIMT 301 or conc enr; HIMT major; Junior standing

Fall Only.

**HIMT 350. Statistics for Healthcare. 3 Credits.**

This is an introductory course in statistical methods for the health sciences. The course will emphasize the principles of statistical reasoning, underlying assumptions, hypothesis testing, and careful interpretation of results. Some topics covered; major study designs, descriptive statistics, graphical displays of data, probability, confidence intervals and tests for means, differences of means, sample size and power, differences of proportions, chi-square tests for categorical variables, regression, multiple regression, and non-parametric statistics.

P: MATH 101, HIMT major, Junior standing

Spring.

**HIMT 355. Principles of Management for HIMT Professionals. 3 Credits.**

This course provides an overview of basic principles involved in management and communication. Topics include basic management principles, communication skills, interpersonal communication competence, negotiation technique, team/consensus building, professional development, and problem solving/decision-making processes.

P: HIMT Major, Junior standing

Fall Only.

**HIMT 360. Healthcare II: Survey of Disease & Treatments. 3 Credits.**

This course further investigates the topics covered in HIMT 330 Health Care I. Based on each body system the course will further expand into the topics of human disease, human health issues and classification of disease/health issues. Diagnostics, Treatment and Clinical procedures that are currently in practice. In addition, the course will incorporate Pharmacotherapeutic concepts (drugs and therapies to treat/prevent/control human disease/health issues), investigating the variety of drugs used for disease treatment for each body system, this will include the current biologicals that are used for treatment. Topics will include how the drugs and biologicals work, their limitations, and the current diversity of available drugs and biologicals.

P: HIMT 330, HIMT major, Junior standing

Fall Only.

**HIMT 365. Healthcare Economics. 3 Credits.**

Applications of microeconomic theory to analyze the behavior of health and health care markets. Topics will include: supply and demand of health care services, private health insurance markets, government provision of health care services and health insurance, and health care policy.

P: HIMT Major, Junior standing

Spring.

**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 301, HIMT major, Junior standing

Fall and Spring.

**HIMT 375. Database Structures and Management Systems. 3 Credits.**

Analyze and design databases to support computer-based information systems. Develop and implement relational database management systems using SQL. Topics include: data modeling techniques such as entity-relationship modeling, extended entity-relationship modeling, database constraints, database normalization techniques, and basic and advanced features of database query language SQL, etc.

P: HIMT 345, HIMT major, Junior standing

Spring.

**HIMT 380. Healthcare Billing, Coding and Reimbursement. 3 Credits.**

This course examines the coding and reimbursement connection; topics include managed care plans, prospective payment systems, Medicare-Medicaid reimbursement, resource-based Relative Value Scale, case mix management, and revenue cycle management.

P: HIMT 330 & HIMT 360, HIMT major, Junior standing

Fall and Spring.

**HIMT 400. Healthcare Information and Technology - Data. 3 Credits.**

This course explores the sources and data contents of health-care information as well as the proper presentation of it for different usage levels. 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; Junior standing

Fall and Spring.

**HIMT 410. Healthcare Systems: Implementation and Integration. 3 Credits.**

Covers the back-end stages of healthcare systems development lifecycle through the procurement route: development of technical design specifications, procurement procedures (RFP, RFQ, vendor evaluation and selection, and contracting), systems configuration and integration, installation, conversion, operation, and maintenance. Pre-installation testing and post-conversion auditing and monitoring will be emphasized to address the upcoming requirements of federal certification of EHR systems.

P: HIMT 301, HIMT 370, HIMT major, Junior standing  
Spring.

**HIMT 415. Human Resource Management in Healthcare. 3 Credits.**

This course examines the role of HIM staff in managing human resources to facilitate staff recruitment, retention and supervision.

P: HIMT Major, Junior standing  
Spring.

**HIMT 420. Healthcare Systems: Project Management. 3 Credits.**

This course addresses the phenomenal impact information system (IS) projects have had on healthcare delivery. Students learn how healthcare IS projects affect organizations, doctors, patients, and chronic-illness treatments, as well as individuals interested in managing their own healthcare. Concepts and tools for effective healthcare IS project management, process re-engineering and work redesign are introduced. The purpose of this course is to expose students to IS project management activities in healthcare settings. Topics covered include recent healthcare IS project trends, budgeting, scheduling, resource management, scope, risk analysis, and deployment controls. The genesis of healthcare project management is covered using specific cases and examples.

P: HIMT Major, Junior standing  
Fall and Spring.

**HIMT 425. Data Warehousing and Mining. 3 Credits.**

Examine the concept of data warehouse and its effectiveness in supporting strategic decision making. Address the process of creating data warehouse/ data-mart solutions from the identification of the enterprise informational and analytical needs to producing business intelligence by extracting information from the data warehouse by using data mining methods and models.

P: HIMT 375; HIMT major; Junior standing  
Fall Only.

**HIMT 430. Quality Assessment and Improvement. 3 Credits.**

This course examines the Quality Assessment and Quality Improvement cycle (Plan, Do, Act, Check) and the role of the HIT/HIM in the process. Tools used in quality and risk management processes will be examined.

P: HIMT 350, HIMT major, Junior standing  
Fall and 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 301, HIMT major, Junior standing  
Spring.

**HIMT 440. Group Processes, Team Building and Leadership. 3 Credits.**

This course introduces students to the necessary group/team processes that are at the root of building, developing, and maintaining medical/healthcare work teams and the effective functioning of such teams. The course also provides an overview of leadership development techniques. Also included is a focus on the uses of various communication technologies in the team building and functioning processes.

P: HIMT Major; Junior standing  
Spring.

**HIMT 445. Application of Leadership & Management in Healthcare Technology. 3 Credits.**

This course assimilates and integrates concepts and applications of management and leadership in the healthcare advancing on the topics covered in HIMT 355, 365 and 415. Topics will include strategic leadership concepts, exploring key factors that impact management and planning, change management, critical organizational behaviors for leadership and management focusing on best practices and organizational accountability and assessment models.

P: HIMT 355, HIMT 365 & HIMT 415; HIMT major; Junior standing  
Fall Only.

**HIMT 450. Healthcare Information and Technology - Standards. 3 Credits.**

This course will be an introduction to healthcare information technology standards including standards and regulations for documentation, and will cover health information standards. The course will also investigate soft-ware applications and enterprise architecture in health-care and public health organizations.

P: HIMT major; Junior standing  
Fall 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: HIMT Major; Junior standing. REC: Course must be taken in semester just prior to taking HIMT 490

Fall and Spring.

**HIMT 490. Capstone. 3 Credits.**

This course is capstone course for both tracks of the degree program. Students are required to find an internship site that is related to healthcare and set up a semester long project from which they can gain hands-on experience in the areas of their concentration. Project set-up will be jointly done by the student, site sponsor, and the faculty of this course, whereas internship supervision will be performed by the project supervisor and the course instructor.

P: HIMT 420, HIMT 489; Last semester of program; HIMT Major

Fall and Spring.

**HIMT 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: HIMT major, Junior standing

Fall and Spring.

## 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.**

This course helps students examine themes in the ancient and medieval world such as the rise of global religions, environmental change, and the fall and rise of states. Core regions examined are East Asia, Eurasia, the Americas, and Africa.

FSS.

**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 110. Debating European History. 3 Credits.**

This course explores the development of culture and values in Europe, focusing on the struggles among diverse groups to define, create, and claim social and political systems. Students will learn to think historically and to identify and evaluate human values and ethical perspectives in their contemporary and historical contexts. Topics may vary from semester to semester.

Fall and Spring.

**HISTORY 111. Debating American Democracy. 3 Credits.**

This course explores the development of and debates surrounding democratic culture and values in the United States, including the deeper roots of democratic principles, focusing on the struggles among diverse groups to define, create, and claim democratic social and political systems.

Fall and Spring.

**HISTORY 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.



**HISTORY 205. American History to 1865. 3 Credits.**

This course explores early American and United States history through 1865, with attention to politics, society, economy, culture, and gender. Following an overview of Turtle Island (a Native designation for North America) before European contact, likely topics to be considered include the European colonization process; the creation and expansion of the United States; the evolution of quasi-democratic institutions; Native resistance, accommodation, and resilience; 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. The course also explores ethical, historical, social, and scientific perspectives on environmental sustainability.

Spring.

**HISTORY 256. Why History Matters. 3 Credits.**

This course explores significant present-day problems and trends within a historical context. Students will learn to think historically, locate and critically evaluate a wide variety of sources, and apply historical knowledge to understand contemporary issues. Topics may vary from semester to semester.

Fall and 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 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.

REC: HISTORY 205 and HISTORY 206.

Spring.

**HISTORY 310. American Colonial History. 3 Credits.**

History of pre-European contact Turtle Island and 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, gender, and culture.

REC: HISTORY 205

Spring Even.

**HISTORY 312. The Early American Republic. 3 Credits.**

This course focuses on the political, economic, social, and religious development of the early United States, from the American Revolution to the eve of the American Civil War. Likely topics include the creation of new governments during and after the American Revolution, federal policy for First Nations and First Nations' responses, the antislavery movement, and the early women's rights movement.

REC: HISTORY 205

Spring Odd.

**HISTORY 325. History of Modern Germany. 3 Credits.**

Political, social, economic and cultural development of modern Germany from the early 19th century to the early 21st century.

Fall Odd.

**HISTORY 326. Global Environmental History. 3 Credits.**

This course uses historical and global perspectives to explore the relationship between humans and the living planet, with a focus on 1945 to the present, a period that has been called "the Great Acceleration." Key topics include the rise of the fossil fuel-based, industrial growth economy, globalization, industrial agriculture, population growth and urbanization, the environmental and sustainability movements, and human-caused climate disruption.

REC: HISTORY 220

Fall Only.

**HISTORY 332. Europe in the 19th Century. 3 Credits.**

Europe in the 19th-century surveys of European history during the 19th century. We will consider the political, economic, social, and cultural developments that occurred in Europe during this time and discuss such topics as revolution, Napoleon Bonaparte, industrialization, liberalism, socialism, nationalism, Romanticism, political and social reform, 1848, Realism, national unification, imperialism, urbanization, modernism, and the road to World War I.

P: None; REC: jr. st.

Fall Odd.

**HISTORY 333. Europe in the 20th Century. 3 Credits.**

Europe in the 20th-century surveys European history from 1900 until 1999. We will consider the political, economic, social, and cultural developments that occurred in Europe during this time and discuss such topics as World War I, the Russian Revolution, modernism, fascism, communism, world War II, the Holocaust, the Cold War, decolonization, the welfare state, 1968, 1989, and the European Union.

REC: HISTORY 102 or HISTORY 104

Spring Even.

**HISTORY 334. Contemporary Europe. 3 Credits.**

Contemporary Europe explores the significance of European historical events and political, social, and cultural trends during the late 20th and 21st centuries. Topics for consideration may include the Cold War, 1989, ethnic nationalism and "ethnic cleansing", the European Union, globalization, terrorism, the Great Recession, Turkey, Vladimir Putin, immigration, populism, the Ukrainian Revolution, Brexit, the Atlantic Partnership, and the nature of Europe itself.

REC: HISTORY 102 or HISTORY 104

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.

REC: HISTORY 205, HISTORY 206, OR HISTORY 207

Fall Only.

**HISTORY 353. The U.S. and the World. 3 Credits.**

This course will explore the United States' interactions with the larger world, including its experiments with imperialism, interventionism, and multilateralism, from 1898 to the present. Through our study of both United States foreign policy and the engagement of Americans with global and transnational issues such as the spread of democracy, free trade, peace, human rights, and environmentalism, we will critical gain insights into the democratic ideals of the United States and their implications for the larger global community.

Spring Even.

**HISTORY 356. History of Modern Africa. 3 Credits.**

This course explores the history of modern Africa from 1850 to the present, concentrating on the major political issues faced by the various peoples of Africa from European colonialism onward. We will discuss the development of European colonization, the gradual integration of Africa into the global community, the struggle for liberation, the Cold War in Africa, and modern challenges of post-colonial Africa including civil war, genocide, HIV/AIDS, poverty, and the consequences of colonization.

P: none; REC: jr st.

Spring Even.

**HISTORY 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.

REC: HISTORY 205 or HISTORY 206

Fall Even.

**HISTORY 380. U.S. Women's History. 3 Credits.**

This course will examine the history of American women from the colonial period to the present. Drawing on historical documents from the period - such as letters, essays, laws, memoir, and images - as well as historical scholarship, we will explore the private lives, work, and activism of women of diverse races, ethnicities, and classes. Throughout the course, we will pay particular attention to the themes of work (paid and unpaid), marriage and family life, political activism, and sexuality.

P: none; REC: jr st and one cse in U.S. history, U.S. lit or Women's Studies.

Fall Odd.

**HISTORY 399. Public History Methods. 3 Credits.**

This course focuses on the theory and practice of public history through written application and field work. Students will examine history in public spaces--such as museums, archives, libraries, historic sites, and national parks, among others--as well as history that is developed for and with public audiences. We will introduce and grapple with difficult questions, such as: Whose history do we collect, document and preserve? How do we resolve the tensions between history and memory? How do we talk about difficult or controversial topics in history? And how do we make history learning exciting and memorable?

P: 6 credits in History. REC: HISTORY 290

Spring.

**HISTORY 400. Voyageur Magazine Practicum. 3 Credits.**

Hands-on experience in the production of Voyageur: Northeast Wisconsin's Historical Review. Responsibilities include editing manuscripts, content creation, and the development of the magazine's public and digital history projects. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: None. REC: Junior Standing, HISTORY 290

Fall and Spring.

**HISTORY 415. Living History and Reenactment for Public Historians. 3 Credits.**

This course examines the several approaches of "Living History" that many public historians engage in as part of their responsibilities in museums, schools, and community-facing events. We will read several approaches by museum practitioners, Civil War re-enactors, and Viking enthusiasts and learn firsthand how these approaches are applied at Heritage Hill and the Midwest Viking Festival. In addition to learning living history practices, we will also discuss the ethical responsibilities public historians might consider when they seek ways to engage the public.

P: None. REC: HISTORY 399

Fall Only.

**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. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 credits.

P: HISTORY 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. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 earned credits.

P: Junior standing. REC: HISTORY 101 or HISTORY 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. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 credits.

REC: Junior standing; and HISTORY 102 or HISTORY 104.

**HISTORY 424. Nazi Germany. 3 Credits.**

This course examines the politics, society, and culture of Germany's Third Reich. Topics include the Weimar Republic, Adolf Hitler, the rise of the Nazi party, Nazi ideology, the "seizure of power," the Nazi state, women and the family, youth, culture and the arts, racism, terror and propaganda, the Second World War, the Holocaust, and the legacy of Nazism.

P: none; REC: Junior Standing, History 102 or History 104

Spring Odd.

**HISTORY 425. Topics in U.S. History. 3 Credits.**

The course will explore topics and themes in United States history from the pre-contact era through to the present. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 earned credits.

Fall Only.

**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.

REC: Junior standing; and completion of a 100- or 200-level History course.

**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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**HISTORY 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**HISTORY 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Healthcare Management (HLTH MGT)

### Courses

**HLTH MGT 150. Certified Nursing Assistant (CNA). 3 Credits.**

Certified nursing assistants play an important role as members of the comprehensive healthcare team in a variety of medical settings. CNAs are employed in hospitals, long-term care facilities, nursing homes, hospices, community care facilities and as home health aides in patient's homes. In addition to receiving technical skills, students will learn additional concepts necessary to provide excellent person-centered care. The CNA program includes a combination of lectures, laboratory practices and supervised clinical work at a medical care facility. This program is recognized and approved by the Wisconsin Department of Health Services. Upon successful completion of the program, the student is eligible to take the Wisconsin Nursing Assistant Competency Examination.

P: Pass a Caregiver Background Check, documentation of influenza vaccine and negative Tuberculosis test.

**HLTH MGT 301. Health Care Systems. 3 Credits.**

This course focuses on the organization, delivery, and financing of healthcare in the U.S. It examines both private and public health sectors and effects of government health care policy on the quality of healthcare delivery.

Fall Only.

**HLTH MGT 302. Healthcare Management. 3 Credits.**

This course provides an introduction to healthcare management including important issues such as management thinking, cost management, strategic planning, and quality improvement. Case studies will be used to enhance student learning.

Fall Only.

**HLTH MGT 401. Healthcare Economics & Policy. 3 Credits.**

Overview of the economics that drive healthcare in the United States. Topics include a review of major healthcare systems, basic economic principles, payers of healthcare, relationship of healthcare policy to economics, and healthcare reform.

Spring.

**HLTH MGT 402. Population Healthcare Management. 3 Credits.**

This course examines new requirements for population-oriented health delivery initiatives, and the challenges and opportunities to improve health within and across populations. Topics include determinants of health, sources of population health data, measuring health outcomes, and disease management.

Spring.

**HLTH MGT 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

## Hmong (HMONG)

### Courses

**HMONG 101. Introduction to the Hmong Language I. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Hmong.

Fall Only.

**HMONG 102. Introduction to Hmong Language II. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Hmong.

P: Hmong 101

Spring.

**HMONG 200. Introduction to Hmong Culture. 3 Credits.**

Introduction to Hmong culture, including history, traditions, and religion. The course is structured around presentations by individuals from the Hmong community, field experiences in the local community, and presentations of student papers.

P: None REC: Sociol 101 or Anthro 100 or Ur Re St 100

Fall Only.

**HMONG 250. Hmong Community Research. 3 Credits.**

Individual and group research projects focusing on the Hmong community. Review of early research in Hmong Studies, development of research skills in qualitative and quantitative methods, writing and presentation of research results. Course is repeatable for credit; may be taken 4 times for a total of 12 credits.

P: None REC: SOCIO 101 or ANTHRO 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. Course is repeatable for credit.

**HMONG 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

# Human Resource Management (HRM)

## Courses

### **HRM 262. 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.

Fall and Spring.

### **HRM 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.

### **HRM 460. Employee Development and Training. 3 Credits.**

This course provides a detailed look at employee training and development in addition to career management. The goal of training is to improve knowledge, skills, attitudes, and/or behaviors as they relate to employees' current position so that they can perform at a higher level. Employee development is the process of building the skillsets employees need to take on additional responsibilities in their current job and/or receive future promotions. Both processes involve careful consideration of internal and external environmental forces and the mission and vision of the company. The course is designed to demonstrate how training, and development are integrated to support the organization's strategic HRM practices as well as how they relate to other human resource management functions. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: HRM 262 and overall GPA of 2.5 or above.

Fall Only.

### **HRM 465. Recruitment and Selection. 3 Credits.**

This course provides a detailed look at staffing in organizations, including how organizations plan for their staffing needs, use job analysis to develop job descriptions and specifications, choose whether to recruit internally or externally, choose among job candidates, and use statistical analysis to validate selection criteria. The course examines and analyzes various recruitment methods and selection tools, as well as the theoretical and empirical support for each.

P: HRM 262 and an overall minimum GPA of 2.5

Spring.

### **HRM 466. Employment Law. 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: HRM 262 and an overall minimum GPA of 2.5

Fall Only.

### **HRM 467. Compensation and Benefits Planning. 3 Credits.**

Theories of compensation and work motivation and their impact on various reward systems and the rationale for decisions affecting the selection of benefits. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: HRM 262 and an overall minimum GPA of 2.5

Spring.

### **HRM 468. Employee Relations. 3 Credits.**

This course examines the employer-employee relationship including such topics as organizational policies, employee handbooks, handling complaints, resolving conflicts, managing change, managing diversity, interpersonal mistreatment in the workplace, and the impact of globalization on employee relations. Also covered are various aspects of labor relations, or the relationship between management, employees, and labor unions. In addition, this course explores the social sustainability and ethical implications of human resource management including the effects of high-performance work practices on employee well-being.

P: HRM 362

Fall Only.



**HRM 469. Performance Management and Analytics. 3 Credits.**

This course provides an in-depth examination of performance management, including defining, measuring and evaluating performance and improving performance management systems. Other areas of focus are role of performance appraisal in performance management and methods to improve accuracy and reduce bias in performance appraisal. Students will also learn the methods and process of job analysis as well as how job analysis informs other key HRM functions. Legal, business case, and ethical implications of performance management are discussed.

P: HRM 362

Fall Only.

**HRM 470. SHRM-CP Prep I. 3 Credits.**

This course is the first of two seven-week accelerated courses that prepare you to write the Society for Human Resource Management Certified Professional (SHRM-CP) exam. You will engage in intensive study of the SHRM Body of Applied Skills and Knowledge (BASK) upon which the SHRM-CP exam is based and includes competencies and knowledge pertaining to all HRM functions. You will also learn how those functions are strategically deployed to support employee and organizational success and wellness. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: HRM 262, HRM 465, HRM 466, HRM 468, and an overall minimum GPA of 2.5

Spring.

**HRM 471. SHRM-CP Prep II. 3 Credits.**

This course is the second of two seven-week accelerated courses that prepare you to write the Society for Human Resource Management Certified Professional (SHRM-CP) exam. You will engage in intensive study of the SHRM Body of Applied Skills and Knowledge (BASK) upon which the SHRM-CP exam is based and includes competencies and knowledge pertaining to all HRM functions. You will also learn how those functions are strategically deployed to support employee and organizational success and wellness. At the end of this course, you will write the SHRM-CP exam.

P: HRM 470, or concurrent enrollment, and an overall minimum GPA of 2.5

Spring.

**HRM 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.

**HRM 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**HRM 496. Project/Research Assistantship. 1-6 Credits.**

The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**HRM 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. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**HRM 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript. Course is repeatable for credit.

P: Bus Adm major or minor or Acctg major or minor and an overall minimum GPA of 2.5

Fall and Spring.

# 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.**

Students will gain knowledge and skills to recognize and respond to emergencies needing CPR and first aid. Basic Life Support (BLS) certification for the healthcare provider can be earned at the successful completion of the course. A course fee is required.

Fall and Spring.

### **HUM BIOL 198. First Year Seminar. 3 Credits.**

topics vary

Reserved for New Incoming Freshman.

### **HUM BIOL 200. Professions in Human Biology. 1 Credit.**

The overarching goal of the course is to empower students to achieve career goals. Students will learn how to pursue careers effectively in human biology from student mentors, professional advisors, faculty and alumni.

P: Declared Human Biology Major with freshman or sophomore status

Fall Only.

### **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 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.

### **HUM BIOL 206. Biology of Human Sexuality. 3 Credits.**

This course explores the biological processes that influence human sexuality. Students will learn about the structures and functions of the reproductive systems, how hormones regulate sexual development and behavior, and the influence of genetics, epigenetics, and evolution on sexuality. The course will cover topics including human development, reproductive health, and biological factors that influence sexual orientation and gender identity. This course aims to provide a solid scientific foundation for students from all backgrounds, encouraging informed and respectful conversations about human sexuality.

Fall and Spring.

### **HUM BIOL 210. Prevention and Treatment of Athletic Injuries. 3 Credits.**

This is an introductory course focusing on the basic principles of athletic training (sports medicine). Emphasis will be placed on the role of the athletic trainer in regards to injury prevention, health/injury assessment, and management/rehabilitation of sports related injuries. Content includes history of athletic training, athletic training room procedures, physiology of healing, acute emergency management, and medical referral process. Students learn techniques related to taping, wrapping, splinting, ambulatory aides, and modalities applied to the healing process.

P: Hum Biol 102 with a grade of C or better OR Biology 201/202 with a grade of C or better.

Fall and Spring.

### **HUM BIOL 215. Personal Health and Wellness. 3 Credits.**

Personal Health and Wellness will explore theoretical and practical knowledge to enhance the seven dimensions of health and wellness. Experiential assignments are designed to apply course concepts to heighten awareness of one's own values and actions toward healthful living.

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 221. Anatomy and Physiology I. 4 Credits.**

Anatomy and physiology of the human body including cell, tissues, skeletal, muscular, and nervous systems. This is the first semester of a two-semester sequence.

P: BIOLOGY 201/202 with at least a C grade; CHEM 207 or concurrent enrollment

Fall and Spring.



**HUM BIOL 222. Anatomy and Physiology II. 4 Credits.**

Anatomy and physiology of the human body including cardiovascular, respiratory, digestive, excretory, endocrine, and reproductive systems. This is the second semester of a two-semester sequence.

P: HUM BIOL 221.

**HUM BIOL 240. Anatomy and Physiology. 4 Credits.**

This 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 HUM BIOL 241 or concurrent enrollment

FSS.

**HUM BIOL 241. Anatomy and Physiology Lab. 1 Credit.**

Laboratory Course that accompanies HUM BIOL 240.

P: HUM BIOL 240 or concurrent enrollment AND CHEM 207 or concurrent enrollment

FSS.

**HUM BIOL 250. Fitness for Life. 3 Credits.**

An introductory course pertaining to health related fitness, including its impact on society and the individual. Students will develop and implement a personal fitness program based on current research in the area. The role and value of fitness will be discussed in terms of physical and emotional health, heart disease, longevity, and quality of life.

**HUM BIOL 270. Essentials of Personal Training. 3 Credits.**

Essentials of Personal Training course bridges the gap between exercise science related course work and practical skills of personal training. This course addresses four performance domains of a certified personal trainer (CPT): client consultation and assessment; exercise programming and implementation; client education; and professional responsibilities. Upon successful completion of the course, students will be prepared to register for the CPT accreditation exam.

Fall Only.

**HUM BIOL 297. Internship. 1-3 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.

**HUM BIOL 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**HUM BIOL 310. Human Genetics. 3 Credits.**

The goal of this course is to provide students with an understanding of the basic principles of transmission, molecular, and evolutionary genetics as it relates to humans, and to examine their relevance to our society and human genetic diseases. Topics covered include the molecular basis of heredity, gene regulation, genetic technologies including cloning, genetic testing and gene therapy, and the genetics of cancer.

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 315. Foundations of Neuroscience. 3 Credits.**

Foundational survey of neuroscience. The course will span topics such as structure and function of the nervous system, behavior (e.g. stress, motivation), sensory and motor systems, physiology, neurotransmission, and research techniques.

P: BIOLOGY 201 or PSYCH 203

Fall Only.

**HUM BIOL 318. Reproductive Biology. 3 Credits.**

Course explains basic reproductive processes with emphasis on the factors, both hormonal and environmental, that affect reproductive functions in mammals; how these processes can be modified to control reproduction.

P: HUM BIOL 240 or BIOLOGY 307 with a grade of C or better

Fall Only.

**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: BIOLOGY 201 with a grade of C or higher AND BIOLOGY 202 with a grade of C or higher; OR HUM BIOL 202 with a grade of C or higher

Spring.

**HUM BIOL 323. Medical Microbiology. 3 Credits.**

This course will explore the clinical impact of microbes on human health to prepare students for programs and careers as healthcare professionals (e.g., Physicians, Nurses, Pharmacists, Physical therapists, Dentists, Veterinarians, Athletic Trainers) and programs in biomedical science. Evaluating the biological mechanisms by which microbe-human interaction leads to disease will be a focus, along with an understanding of vaccine platforms and therapeutics. Scientific literacy will be emphasized as it relates to vaccines and therapeutics, along with an understanding of their mode of action and application in clinical settings.

P: BIOLOGY 201 with at least a C grade

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 326. Medical Microbiology Lab. 1 Credit.**

Medical Microbiology laboratory provides students interested in healthcare professions and biomedical science with opportunities to learn and apply laboratory concepts and techniques to identify microbes of clinical concern according to American Society of Microbiology safety guidelines. Bacteria, fungi and parasites of clinical concern will be emphasized.

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.

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 240 & Hum Biol 241 or Hum Biol 221 & Hum Bio 222 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 240 & HUM BIOL 241 or HUM BIOL 221 & HUM BIOL 222 AND approval by instructor. REC: HUM BIOL 351, BIOLOGY 340  
Fall Only.

**HUM BIOL 343. Exercise Prescription and Evaluation. 3 Credits.**

This course is designed to enable students to assess, design, implement, and evaluate exercise prescriptions for adult populations with various morbidities.

P: HUM BIOL 240 and 241 or HUM BIOL 221 and 222 with at least a C grade  
Spring.

**HUM BIOL 344. Motor Learning and Performance. 3 Credits.**

This course introduces processes and relevant theories that underlie acquisition and performance of motor skills. Students gain an understanding of psychomotor and neuromuscular function in the control of human movement. Tactile, proprioceptive, and visual sensory systems are also examined in terms of their anatomical and physiological basis, how they influence the control of movement, and the limits they place on human motor skill performance.

P: HUM BIOL 240 & HUM BIOL 241 or HUM BIOL 221 & HUM BIOL 222 with a grade of C or higher  
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 240 & HUM BIOL 241 or HUM BIOL 221 & HUM BIOL 222 with a grade of C or higher AND CHEM 207 or concurrent enrollment  
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 BIOL 240 or HUM BIOL 221 & HUM BIOL 222 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 involves detailed study of the mechanisms of human physiology. General principles of physics, chemistry, biology, and regulation and feedback within physiological processes are used to understand human physiology from the cellular to the organismal level. Processes and mechanisms underlying the function of the nervous, muscular, endocrine, cardiovascular, digestive, respiratory, renal, reproductive, and immune systems are studied. Examples of normal and disease-state physiology are used to practice application of material, develop a thorough understanding of each process, and improve critical-thinking skills.

P: HUM BIOL 240 & HUM BIOL 241 or HUM BIOL 221 & HUM BIOL 222 with a grade of C or higher

Fall and Spring.

**HUM BIOL 403. Human Physiology Laboratory. 1 Credit.**

This course examines a number of physiological principles in a laboratory setting. Students will develop skills in laboratory techniques, experimental design, science writing and presentation, and critical analysis of scientific literature. Students will also develop skills in data literacy including skills for statistical testing, and analysis, interpretation, graphical representation, and presentation of data. This course includes writing emphasis (WE) and capstone designations.

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

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: PSYCH 308 or consent of instructor

Spring.

**HUM BIOL 415. Virology. 3 Credits.**

An in-depth study of medically important viruses. Designed for students with career interests in biomedical research, the health professions and public health. Course is repeatable for credit; may be taken 2 times for a total of 6 earned credits.

P: BIOLOGY 307

Spring.

**HUM BIOL 422. Immunology. 3 Credits.**

This course examines the mechanisms of vertebrate, particularly human defense against microbial invasion and cancer.

P: BIOLOGY 323 with at least a C grade or HUM BIOL 323 with at least a C grade; CHEM 212 with at least a C grade; and MATH 260 with at least a C grade

Spring.

**HUM BIOL 423. Immunology Lab. 1 Credit.**

This laboratory course examines the mechanisms of innate and acquired immunity.

P: HUM BIOL 422 or conc enr and CHEM 207 or conc enr

Spring Odd.

**HUM BIOL 426. Cancer Biology. 3 Credits.**

This course examines the genetic changes and molecular events that lead to abnormal cell growth and cancer. Topics covered include oncogenes, tumor suppressor genes, angiogenesis, invasion and metastasis, cancer stem cells, therapeutic approaches for cancer treatment, and cancer prevention.

P: Biology 307 or Hum Biol 310 or Biology 410 with at least a C grade

Spring.

**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 240 or HUM BIOL 221 & HUM BIOL 222 with a grade of C or better AND (either) HUM BIOL 402 or BIOLOGY 307  
Spring.

**HUM BIOL 451. Biomechanics. 3 Credits.**

This course introduces students to musculoskeletal biomechanics and the quantitative analysis of human movement. Topics covered will include rigid-body kinematics, dynamics, motion capture, external force measurement, electromyography, and mechanical properties of muscles, tendons, and bones.

P: HUM BIOL 351  
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. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**HUM BIOL 496. Project/Research Assistantship. 1-6 Credits.**

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

P: Chem 207 and approval by faculty mentor.

**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. Course is repeatable for credit.

P: jr st.  
Fall and Spring.

**HUM BIOL 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.  
Fall and Spring.

**HUM BIOL 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Humanistic Studies (HUM STUD)

### Courses

**HUM STUD 100. Global Challenges and the Human Experience. 3 Credits.**

In an increasingly interconnected world, understanding the complexities of global challenges is essential. This course explores the multifaceted issues that shape our world today and encourages students to explore how these challenges impact diverse communities and individuals. Through an interdisciplinary approach that places an emphasis on human stories, the course will highlight the resilience and adaptability of people facing these global issues in their historical, philosophical, literary, and artistic contexts. The course aims to foster critical thinking, empathy, and a sense of global citizenship. Topics vary and may include climate change and environmental sustainability, global democracy and democratic movements, gender and sexuality in global perspective, and the promise and challenge of technology, among others. Course is not repeatable for credit.

Fall and Spring.

**HUM STUD 110. Introduction to Film. 3 Credits.**

This course examines cinema as an audiovisual product and as a medium that reflects and influences social trends, values, and attitudes. It includes watching a variety of films from different regions of the world, in which human values and ethical perspectives are identified and evaluated in their social, cultural, and historical contexts.

Fall Only.

**HUM STUD 120. Latinx Experiences and Voices in our Community. 3 Credits.**

Introductory course that exposes students to the realities of the local Hispanic/Latinx communities. The course addresses historical, social, political, and cultural dynamics affecting Hispanic/Latinx in both rural and urban settings of Wisconsin and the local community.

Spring.

**HUM STUD 160. Introduction to Language. 3 Credits.**

Study of language and linguistics, including basic principles and methods in structural linguistics, social and regional variation in language, historical change and introductory study of meaning.

Spring.

**HUM STUD 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman

Fall and Spring.

**HUM STUD 200. Finding Humanity in the Digital World. 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.

Fall Only.

**HUM STUD 201. Introduction to the Humanities. 3 Credits.**

This interdisciplinary course introduces the major methods and ideas of the Humanities by examining selected works of literature, philosophy, and history produced by a variety of cultures in different chronological periods. It offers a fundamental understanding of the humanities' unique roles in identifying and evaluating human values and ethical perspectives in their historical and contemporary contexts. Understanding the various ways cultural products both reflect and shape the larger political, socioeconomic and religious belief systems and, to some extent, even physical and natural environments, will hone students' ability to identify, analyze and articulate individual, social and cultural values and the implications of decisions made on the basis of those values.

FSS.

**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 in America Past and Present. 3 Credits.**

This course is intended to highlight the diverse cultures and experiences that have shaped the American landscape. We will focus our attention on the experiences of African Americans, First Nations people, and Latinx and Latin Americans, Hmong refugees and Hmong Americans. By the end of the course, we will have a greater understanding and awareness of the diversity of the American population; and the process of identity formation for these individuals/groups, particularly in opposition to stereotypes and discrimination.

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 225. Professional Pathways. 3 Credits.**

This course provides students with the essential skills and insights needed to excel in the professional world. From effective communication and ethical decision-making to networking and personal branding, we will cover the key elements of professional success. Students will learn how to present their perspectives confidently and cooperatively, build meaningful professional relationships, and navigate workplace challenges with integrity and competence. As a collaborative cohort, we will examine the demands and opportunities you'll encounter and discuss methods for managing multiple projects and working with clients as part of an organization or as an independent contractor.

Spring.

**HUM STUD 227. Cultivating Creativity. 3 Credits.**

From the arts to the sciences, creativity is foundational to the human experience. And though it arises from the mechanisms of mind and body, it is not fixed by biology. Rather, creativity is a way of seeing and being in the world that is seeded in experience, cultivated through practice, and nurtured in reflection. Examining practitioner-based reports from your favorite creative giants through psychological, sociological, and practical models of creativity, this course dissects the myth of genius to develop individualized creative practices grounded in experience, framed through theory, and backed by science. After a semester of exploration, play, and invention, you will find yourself a more inspired, imaginative, and joyful practitioner of art and life alike.

Fall Only.

**HUM STUD 230. Comics, Society, and Culture. 3 Credits.**

This course examines comic books in American and global culture and society. Comics appeal to many Americans because they speak to our hopes and dreams, to our fears and desires, they investigate our politics and our social conflicts and examine important philosophical issues. This course will introduce students to this medium and to its interactions with other media, and in doing so, it will ask students to confront issues concerning history, media, society, gender, ethnicity, class, creativity, and other issues in our culture.

Fall and Spring.

**HUM STUD 240. Film and the Community. 1 Credit.**

This 1cr course is designed to bridge the gap between study of film and the film as a community art. Students are able to fulfill the requirements of this course in a number of ways: attend all of the free screenings of the Green Bay Film Society's International Film Series offered at the Neville Public Museum; volunteer with the Green Bay Film Festival or become involved with another film and community arts type program. This course will be a required HIP for the Film Studies minor.

P: HUM STUD 110

Fall Only.

**HUM STUD 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**HUM STUD 300. Intermediate Digital and Public Humanities. 3 Credits.**

Students explore methods and approaches of the digital and public humanities in-depth, perform research, and complete work on a collaborative project.

P: Hum Stud 200

Fall Only.

**HUM STUD 309. Introduction to Film History and Theory. 3 Credits.**

Art criticism is concerned with the ways in which perception influences artistic judgment. This course will be a survey of significant works, traditions, and movements of film and media history from cinema's beginnings to the present. Examines questions of what distinguishes cinema from other visual arts, considering theories of film aesthetics, meaning, and spectatorship from the classical to the contemporary era. Investigations may include issues of commerce, technology, authorship, genre, affect, transnationalism, race and ethnicity, gender, and cinema's intersection with theories of other arts.

REC: HUM STUD 110

Spring Even.

**HUM STUD 318. Topics in Linguistics/TESL. 3 Credits.**

Analysis and discussion of topics of central importance in applied linguistics and Teaching English as a Second Language (TESL). Possible topics include: Teaching Grammar to ELLs; Second Language Pragmatics; Second Language Writing; and others.

**HUM STUD 319. Second Language Acquisition & Assessment. 3 Credits.**

Overview of issues in second-language acquisition and assessment, including linguistic, cognitive, social, and affective factors. Students will examine and think about learner language, read research on learner language, and consider implications for second-language teaching.

Rec: Hum Stud 160.

Fall Only.

**HUM STUD 321. Sociolinguistics. 3 Credits.**

The study of language in relation to society, including social and regional dialects, bilingualism and language contact, speech communities, the ethnography of language, and applications such as language policy and planning.

P: None. REC: Hum Stud 160.

Spring.

**HUM STUD 326. Non-Western Religions. 3 Credits.**

The two major religions of the East, Hinduism and Buddhism: the richness, variety and flexibility of the faith and practice of Hinduism, with its belief in a multiplicity of gods and goddesses; and the various sects and schools of Buddhism--Theravadic, Mahayana, Zen and Tantric.

P: none; REC: jr st.

Spring Even.

**HUM STUD 330. Ancient and Medieval Cultures and Values. 3 Credits.**

Repeatable if topics differ. May be taken 3 times for a total of 9 earned credits.

Spring.



**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 343. International Cinema. 3 Credits.**

This course explores international cinema and the filmic arts with particular attention to their diverse cultural, social and political contexts as a means of expanding students' knowledge of the human condition and human cultures throughout the world. Students will engage in critical analysis of filmmaking, film aesthetics and narrative structure, while developing a deepened appreciation for cross-cultural experiences and the ways cinema creates meaning.

Spring Odd.

**HUM STUD 351. Interdisciplinary Themes in Humanities. 3 Credits.**

Interdisciplinary examination of a single important theme in the Humanities. Variable content. Course is repeatable for credit if topics differ.

P: jr st.

Spring.

**HUM STUD 352. Literatures in Translation. 3 Credits.**

A study of selected works of literatures in translation. A variable content course.

P: jr st.

**HUM STUD 353. Latinx Culture. 3 Credits.**

This course is an introduction to US Hispanic/ Latinx history, civilization, literature, and culture. The course is designed to provide an opportunity to understand cultural commonalities and differences of the people generally grouped in the United States under the single ethnic category of "Latinx/ Hispanic" and who have become the largest minority group. The course will focus on understanding sociological, historical and artistic productions and how they affect the construction of an ethnic identity and will address key issues regarding Latinx/Hispanic experiences in the US such as the constitution of ethnicity, language issues, immigration debates, the border/wall as a reality and as a symbol, the influence of media, visual and pop culture on the formation and marketing of an ethnic consciousness as well as other topics.

Spring.

**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 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 economic, cultural, political, and social history of globalization and deglobalization and consider how people have responded to such issues as mass migration, the globalization of the economy, commodity production and consumption, the globalization of culture, and relationships between globalization and politics.

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. This course will include a digital and public humanities project.

P: Junior Standing REC: HISTORY 220, PHILOS 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. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: HISTORY 102. REC: jr st

Spring.

**HUM STUD 384. Topics in World Cultures. 3 Credits.**

Study of cultures and worldviews outside of Western Europe and the United States. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: none; REC: jr st.

Fall Only.

**HUM STUD 400. Humanities Practicum. 3 Credits.**

In this course students gain in-depth, hands-on experience by collaboratively creating humanities projects. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: None. REC: HUM STUD 200

Fall and Spring.

**HUM STUD 420. Global Cultures & Trade Laws. 3 Credits.**

This course introduces the nuances and larger impacts of cultural differences across the world on business, focusing on differences in trade laws and legal systems.

Fall Odd.

**HUM STUD 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**HUM STUD 480. Humanities Seminar. 3 Credits.**

A capstone seminar for humanities majors, examining basic questions and issues in the humanities. Course will emphasize student participation and a substantial term paper. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: Junior Standing. REC: One or more courses in the Humanities, English, First Nations Studies, History, Modern Languages, or Philosophy.

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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**HUM STUD 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**HUM STUD 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Information Sciences (INFO SCI)

### Courses

**INFO SCI 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**INFO SCI 201. Information, Computers and Society. 3 Credits.**

A survey of the social, legal and ethical impacts of computers on individuals and society.

Fall Only.

**INFO SCI 210. Information Problems. 3 Credits.**

An introduction to understanding and solving information problems, including: a survey of the field of information science; practice in algorithmic thinking; techniques for finding, assessing, organizing, and presenting information; and confrontation with ethical and value issues.

Spring.



**INFO SCI 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**INFO SCI 302. Introduction to Data Science. 3 Credits.**

This course provides an introduction to data science and provides an overview of useful data science tools. Topics covered will include tools, database management, retrieval and management of data, best practices for effectiveness and mitigating risk.

P: At least 18 credits in COMP SCI, INFO SCI or COMM

Fall and Spring.

**INFO SCI 332. Mobile Platforms and Apps. 3 Credits.**

This course has a cross-disciplinary emphasis and is suitable for INFO SCI, COMP SCI and COMM students. This course will incorporate a complete study and practice of the mobile applications world. Students will explore business models of application development and deployment. As cross-disciplinary teams, the students will design, develop and fully produce one real and unique app. While CS students will focus on the technical aspects of the product, other students in this course will focus on original content creation (such as art, news stories, social media, video games, videos, etc.).

P: At least 18 credits in COMP SCI, INFO SCI or COMM

Fall Only.

**INFO SCI 341. Survey of Gaming and Interactive Media. 3 Credits.**

This course provides students with a thorough understanding of the history, study, of the modern video game industry and video games as a creative and communicative medium. Subjects covered in this course include the history of the industry in terms of its technological and economic development. Students will also analyze how video games have evolved and used more powerful multimedia capabilities to craft narratives and virtual worlds, and critically engage with game content to analyze games and break them down into component elements to understand what makes for good design. The course will also analyze the cultural and political impact of games from psychological effects to the debate over governmental regulation. The course will also provide students with the tools they need to succeed in a variety of professions in the video game industry, from journalism to development to public relations and beyond.

P: sophomore standing

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: sophomore standing

Spring.

**INFO SCI 390. Technical Writing. 3 Credits.**

Scientific and technical writing for professional and lay audiences, including news articles and features, laboratory reports, training and procedure manuals, grant and contract proposals and technical reports.

P: Eng Comp 100 or 164 or ACT English score of 25 or higher; and completion of nat sci gen educ req.

**INFO SCI 410. Analytics and Information Problems. 3 Credits.**

Practice in solving information problems and documenting skills for external audiences.

P: senior status

Spring.

**INFO SCI 411. Statistical Techniques and Decision Modeling. 3 Credits.**

This course develops an understanding of core and advanced statistical concepts used in data science. It builds on core statistical concepts covered in other foundational statistics courses. Topics include hypothesis testing, classical and Bayesian statistical inference, multiple regression, logistic regression, analysis of variance, and non-parametric methods. The course also introduces students to decision modeling techniques including Monte Carlo simulation, linear and non-linear optimization, decision trees, and risk analysis. The course includes hands-on exercises.

P: 15 credits of COMP SCI, INFO SCI, or COMM

Spring.

**INFO SCI 412. Data Mining and Predictive Analytics. 3 Credits.**

The course discusses data mining and introduces students to machine learning concepts used in analytics. It provides the basics of building predictive models using structured and unstructured data and clustering, association, and classification techniques. It covers predictive modeling using regression, survival analysis, artificial neural networks, support vector machines, decision trees, and genetic algorithms. The courses involves hands-on exercises with WEKA, Python, and R.

P: MATH 260 or INFO SCI 302

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 443. Game Development. 3 Credits.**

In this course, students will learn how to use a modern 3D game engine (e.g. Unreal Engine 4). They will learn about the art pipeline, the design pipeline, and the backend programming to make it all work. Game engine concepts such as scripting, AI, animations, sound, story, and gameplay behaviors will be covered in the lecture and labs. This is a hands-on capstone style course which is well suited to artists, designers, and programmers. During the course students will work together in game teams to demonstrate their learning through creating their own games.

P: 30 credits (sophomore standing) and COMP SCI 256 or DESIGN 231 or INFO SCI 342 or MUSIC 122 or ENGLISH 212

Fall Only.

**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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**INFO SCI 496. Project/Research Assistantship. 1-6 Credits.**

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

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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**INFO SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**INFO SCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Italian (ITALIAN)

### Courses

**ITALIAN 101. Introduction to the Italian Language I. 4 Credits.**

Development in basic ability in understanding, reading, speaking and writing Italian.

Fall Only.

**ITALIAN 102. Introduction to the Italian Language II. 4 Credits.**

Development in basic ability in understanding, reading, speaking and writing Italian.

REC: 1 yr. h.s. or 1 semester of college Italian.

Spring.

# Japanese (JAPANESE)

## Courses

**JAPANESE 100. SNC Consortium. 4 Credits.**

St. Norbert College course, extended to UWGB students through a consortium agreement.

**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.

P: JAPANESE 101.

Spring.

**JAPANESE 200. SNC Consortium. 4 Credits.**

St. Norbert College course, extended to UWGB students through a consortium agreement.

**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 300. SNC Consortium. 4 Credits.**

St. Norbert College course, extended to UWGB students through a consortium agreement.

**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 97. Mathematics Study Skills. 1 Credit.**

MATH 97 is a one credit course intended for students concurrently enrolled in MATH 99. This course will provide students with mathematics and problem-solving instruction and cover study skills strategies for succeeding in mathematics courses. Students will gain insights into how they learn mathematics through various activities and reflections. They will also receive any extra support needed so that they are successful in their MATH 99 course.

P: Concurrent enrollment in MATH 99

Fall and Spring.

**MATH 99. Intermediate Algebra. 2 Credits.**

Intended as a preparation for Math 101. Topics include: functions, linear equations, quadratic equations, set operations, Venn diagrams, polynomials, rational functions, rational exponents, radicals. Offered on a pass/no credit, non-degree credit basis only.

P: MATH 94 with a P grade 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 with a P grade or WPT-MFND test score > 465

Fall and Spring.

**MATH 102. Quantitative Reasoning. 3 Credits.**

This course is intended to develop analytic reasoning and the ability to solve quantitative problems. Topics to be covered include construction and interpretation of graphs, functional relationships, descriptive statistics, geometry and spatial visualization, math of finance, exponential growth, and basic probability. Appropriate use of units and dimensions, estimates, mathematical notation and available technology will be emphasized throughout the course.

P: MATH 94 with a P grade or WPT-MFND test score > 415

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 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**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 descriptive statistics, probability, the normal distribution, estimation, hypothesis testing, confidence intervals, chi-square tests for categorical data, correlation, and simple linear regression.

P: MATH 101 or higher with at least a C, or WPT-MFND score > 465 and WPT-AALG score > 525

Fall and Spring.

**MATH 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**MATH 305. Ordinary Differential Equations. 4 Credits.**

First-order differential equations, equilibrium solutions and stability, linear equations of higher order, Fourier series and periodic solutions, Laplace transform methods, first-order linear systems of differential equations with constant coefficients, eigenvalues and boundary value problems.

P: Math 203 with at least a C grade.

Fall and Spring.

**MATH 306. Statistical Programming. 3 Credits.**

This course is intended to teach critical concepts and develop skills in statistical programming, in conjunction with hands-on analysis of real-world datasets. Topics include data manipulation, handling different data types and data structures, data cleaning, exploratory data analysis and visualization, simulations, control structures, generating analytical reports, and tools for implementing reproducible research. R and SAS statistical software packages are introduced and used.

P: MATH 260 with at least a C grade

Spring.

**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, orthogonality and least squares, symmetric matrices and quadratic forms, spectral decompositions.

P: MATH 202 with at least a C grade. REC: MATH 314

Spring.

**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. Abstract Algebra. 3 Credits.**

Groups, rings, and fields as organizing ideas. Basic structure theorems. Applications.

P: MATH 314 with at least a C grade and MATH 320 with at least a C grade

Fall Only.

**MATH 329. Applied Regression Analysis. 4 Credits.**

Techniques for fitting regression models are developed and applied to data using statistical software. Topics include simple linear regression, multiple regression, inference, regression diagnostics, remedial measures, model selection, logistic regression, and an introduction to nonlinear regression models.

P: MATH 260 with at least a C, MATH 306 with at least a C, and MATH 320 with at least a C

Fall Even.

**MATH 355. Applied Mathematical Optimization. 3 Credits.**

Introduction to mathematical optimization: mathematical modeling of optimization problems, analytical and numerical optimization techniques, applications. Linear programming: simplex method, duality, integer programming; nonlinear programming: Lagrange multipliers, Karush-Kuhn-Tucker optimality conditions, convexity; approximation techniques: line search methods, gradient methods, conjugate gradient methods; variational problems; dynamic programming; optimal control.

P: MATH 209 with at least a C grade AND MATH 320 with at least a C grade or concurrent enrollment

Spring.

**MATH 360. Theory of Probability. 3 Credits.**

Probability concepts and counting techniques; expected value; discrete, continuous, and multivariate probability distributions; moments and moment-generating functions; transformations and functions of random variables; and the Central Limit Theorem.

P: Math 209 with at least a C grade.

Fall Even.

**MATH 361. Mathematical Statistics. 3 Credits.**

Properties of point estimators (bias, consistency, sufficiency), methods of estimation (method of moments, maximum likelihood estimation), hypothesis testing and interval estimation, power, likelihood ratio tests, chi-square tests, 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 406. Partial Differential Equations. 3 Credits.**

Classification of partial differential equations; solution of standard partial differential equations - transport equation, Laplace's equation, Poisson's equation, heat equation, wave equation; method of characteristics, initial and boundary value problems, separation of variables, Sturm-Liouville theory, integral transform methods, d'Alembert formula, Green's functions, numerical solutions, applications in science and engineering.

P: MATH 209 with at least a C grade and MATH 305 with at least a C grade.

Spring Odd.

**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 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, MATH 260 with at least a C, and MATH 306 with at least a C.

Spring Even.

**MATH 431. Multivariate Statistical Analysis. 4 Credits.**

Principles and practice in the analysis of multivariate data. Correlation, partial correlation, principle components, factor analysis, discriminant functions, canonical correlation, cluster analysis, multidimensional scaling. Emphasis on computer analysis of actual data.

P: MATH 260 with at least a C, MATH 306 with at least a C, MATH 320 with at least a C, and MATH 329 with at least a C

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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**MATH 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa  $\geq 2.50$ ; or jr or sr st with cum gpa  $\geq 2.00$ .

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.

# Management (MGMT)

## Courses

### **MGMT 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.  
Reserved for New Incoming Freshman.

### **MGMT 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.

### **MGMT 380. International Business Management. 3 Credits.**

The course takes both micro and macro-level perspectives of organizations and delves into the field of international business. It gives a student a fundamental understanding of the international operating context and looks at strategies, and structures for dealing with the challenges and opportunities arising in global markets.

P: 15 credits completed and an overall minimum GPA of 2.5

Spring.

### **MGMT 389. Organizational Behavior. 3 Credits.**

A micro organizational behavior course examining motivation, leadership, job satisfaction, learning, group dynamics, and stress in the organizational setting.

Fall and Spring.

### **MGMT 452. Teams. 3 Credits.**

The course explores the design and management of organizational teams and work groups. It examines the components of effective teams and enhances teamwork skills and expertise. Topics include group composition, goals, processes, team behaviors, team leadership, team performance and technological tools. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: MGMT 389 and an overall minimum GPA of 2.5

Spring.

### **MGMT 460. Leading Innovation and Change. 3 Credits.**

The course helps students develop skills to lead teams and organizations to achieve innovative outcomes. Students will develop an understanding of the factors that lead to successful management of innovation including overcoming barriers to innovation, leading innovation and developing and nurturing an innovative culture. Students learn how organizations respond to change and how to manage change throughout different organizational levels. They will understand the role of change agents and all aspects of change management including planning and performance, communication structures, and politics, among others.

P: MGMT 389 and an overall minimum GPA of 2.5

Fall and Spring.

### **MGMT 461. Diversity in Organizations. 3 Credits.**

The course introduces students to an overview of diversity in business and the issues, challenges, and opportunities presented by this diversity. It focuses on understanding, sensitivity, and appreciation for cultural differences. Students will learn about diversity in all forms including race, ethnicity, gender, religion, sexual orientation, appearance, age, ability and class. Additionally students will learn about the specific behaviors and skills needed to shape an inclusive climate and how to manage diversity as a leader.

P: MGMT 389 and an overall minimum GPA of 2.5

Fall Only.

### **MGMT 472. Leadership Development. 3 Credits.**

This course provides a framework for lifelong leadership development to ensure students can make an impact on both personal and organizational success. Students will build their leadership potential by developing critical leadership competencies needed to think strategically, coach and develop organizational talent, lead people through change, and influence people toward mutually beneficial outcomes. An emphasis will be placed on understanding that leadership development is an ongoing process throughout one's career. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: MGMT 389 and an overall minimum GPA of 2.5

Fall and Spring.



**MGMT 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.

**MGMT 479. Organizational Culture & Design. 3 Credits.**

A macro-organizational course examining the use of organizational design as a tool for organizing business processes and developing organizational capabilities. The course focuses on organizational environments, structure, power and politics, conflict, innovation, technology, and culture.

P: MGMT 389 and an overall minimum GPA of 2.5

Fall and Spring.

**MGMT 482. Capstone in Business Strategy. 3 Credits.**

The course focuses on the formulation, selection and implementation of business strategies through assessment of organizational performance; competitive, market and industry analysis; development of strategic positions and identification of strategic opportunities. Students practice strategic thinking for a cross section of business types from small, closely held to corporate, publicly-held, multiple business enterprises. The concepts and ideas of the course are explored through the analysis of case studies. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: 95 credits; and ACCTG 202; ECON 202, ECON 203, or ECON 208; MKTG 322 or ECON 303; FIN 343 or ECON 330; MGMT 389 or ECON 485; and Accounting, Business Administration, Finance, HR Management, Management, Marketing, Economics major; and a min GPA of 2.5

Fall and Spring.

**MGMT 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course.

HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**MGMT 496. Project/Research Assistantship. 1-6 Credits.**

The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course.

HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**MGMT 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. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**MGMT 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: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

## Mechanical Engineering (ME)

### Courses

**ME 104. Engineering Graphics. 1 Credit.**

This course introduces students to the creation of 2D engineering drawings using AutoCAD software. Topics covered include line types, drawing sheet layouts, sketching, orthographic projections, section views, isometric drawing, dimensioning, tolerances, and threads and fasteners.

Fall and Spring.



**ME 150. Engineering the Future-Values and Society. 3 Credits.**

This course explores the intricate relationship between human cultures, values, and engineering practices. It delves into how cultural backgrounds, ethical frameworks, and societal values influence engineering decisions, designs, and implementations. Through case studies, discussions, and projects, students will gain an understanding of the social context in which engineers operate and develop the skills to incorporate diverse perspectives in their professional work.

FSS.

**ME 160. Ethics in Engineering and Science. 3 Credits.**

This course presents a philosophical examination of the nature of engineering and scientific practices, as well as applied technology. We will consider such questions as: How do the societal functions of engineers/scientists and the practical application of technologies relate to basic moral and intellectual values? What moral obligations are implied by the uses and creation of technology? What are the ethical duties of engineers and scientists in the practice of their careers?

FSS.

**ME 170. Engineering in Global Context. 3 Credits.**

This course examines how engineering is intertwined with larger economic, social, cultural, and technological dynamics in an era of intensified globalization. Its major goals are to help you understand and appreciate what engineering is, how engineers are trained, what engineers do, and how engineering and society interact. The course approaches these themes through discussion of: the relation and interaction of engineering, science, technology, and society; the historical origins and development of engineering as a profession; diversity issues in engineering and other STEM fields; professional practice in cross-national/cultural contexts; and contemporary challenges related to globalization, ethics, and sustainability. In summary, the course is designed to help students understand what it means to identify as, and/or work with, engineers.

FSS.

**ME 198. First Year Seminar. 3 Credits.**

First Year Seminar. Introduction to Mechanical Engineering. Basic Mechanical Engineering concepts will be covered.

Reserved for New Incoming Freshman

Spring.

**ME 201. Engineering Materials. 3 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: ME 206 with a C or higher, OR CHEM 211 and CHEM 212 and CHEM 213 and CHEM 214 all with a C or higher, AND declared Mechanical Engineering or Mechanical Engineering Technology major.

Fall and Spring.

**ME 204. Introduction to MATLAB Programming. 3 Credits.**

This course introduces students to the fundamental principles of programming for solving scientific problems and familiarizes students with the process of computational thinking and translation of real-life computational problems. This course teaches computer programming to those with little to no previous experience. It uses the programming system and language called MATLAB to do so because it is easy to learn, versatile, and very useful for professionals in a wide variety of domains. Nevertheless, this course is not a MATLAB tutorial. It is an introductory programming course that uses MATLAB to illustrate general concepts in programming.

P: MATH 104 or equivalent with a minimum grade of C

FSS.

**ME 206. Chemistry for Engineers. 4 Credits.**

This course will provide engineering students with a background in important concepts and principles of chemistry. Emphasis will be on areas 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

Fall and Spring.

**ME 213. Mechanics I. 3 Credits.**

Elementary vector operations, resultant of two- and three-dimensional force systems, centroid, hydrostatic forces, equilibrium of trusses and frames, laws of friction and impending motion, moments of inertia, virtual work, stability.

P: MATH 202 with a C or higher, AND declared Mechanical Engineering, or Mechanical Engineering Technology major

Fall and Spring.

**ME 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: ME 213 with a C or higher

Fall and Spring.

**ME 216. Basic and Green Manufacturing Processes. 3 Credits.**

This course introduces basic and green manufacturing processes. It covers basic machine and hands-on processes to shape materials to desired specifications. This course also introduces sustainability in manufacturing by looking at the efficient use of energy and raw materials to minimize pollution and waste during the process. The concept of industrial sustainability is explored, and the effects of manufacturing on the environment are examined.

P: None. REC: ME 201

FSS.

**ME 220. Mechanics of Materials. 3 Credits.**

This course teaches how to design and analyze simple structures for predetermined strength and deformation requirements. Topics include theory of stress-strain; Hooke's law; analysis of stresses and deformations in bodies loaded by axial, torsional, bending, and combined loads; and analysis of statically indeterminate systems.

P: ME 213 with a C or higher; Major in Mechanical Engineering Technology or Mechanical Engineering

Spring.

**ME 221. Mechanics of Materials Lab. 1 Credit.**

This lab teaches students an applied analysis of the distribution of forces in static structures; analysis of axial, torsional, and bending stresses; and loading analysis of systems.

P: ME 220 or concurrent enrollment

Spring.

**ME 308. Electrical and Electronic Circuits. 3 Credits.**

This course provides an introduction to DC and AC electrical circuit analysis, electronic devices and circuits, transducers, electric machines, and power transmission. This course includes both lecture and lab.

P: PHYSICS 202 with a C or higher OR Concurrent enrollment, AND declared Mechanical Engineering Technology major OR declared Mechanical Engineering major.

Fall Only.

**ME 312. Engineering Measurements. 2 Credits.**

This course teaches students instrumentation and techniques for measurement of mechanical phenomena. It includes generalized measurement systems, characteristics of dynamic signals, calibration, recording systems, error and statistical analysis.

P: ME 308 with a C or higher OR concurrent enrollment, and ME 326 with a C or higher

Spring.

**ME 313. Engineering Measurements Lab. 1 Credit.**

This course introduces students to the laboratory analysis of Engineering Measurements including instrumentation and measurement systems, calibration, error and statistical methods applied to engineering processes.

P: ME 312 with at least a C or concurrent enrollment

Spring.

**ME 324. Engineering Thermodynamics. 3 Credits.**

This course teaches student engineering applications of thermodynamics including the first and second laws, behavior of condensable and non-condensable substances, analysis of open and closed systems, equations of state, and power and refrigeration cycles.

P: PHYSICS 202 with a C or higher, ME 206 or CHEM 211, CHEM 212, CHEM 213, and CHEM 214 with a C or higher; declared major in Mechanical Engineering or Mechanical Engineering Technology

Spring.

**ME 326. Numerical Methods. 3 Credits.**

This course teaches students applied numerical analysis for linear and non-linear engineering problems; systems of linear equations, non-linear equations, eigen value problems, and optimization techniques; approximate numerical integration and differentiation; developing numerical methods; and solving for initial and boundary value problems. The course includes both a lecture and a lab.

P: MATH 305 with a C or higher OR concurrent enrollment, MATH 209 with a C or higher, and ME 204 with a C or higher

Fall Only.

**ME 334. Industrial Decision Processes. 3 Credits.**

Industrial decision processes, or operations research, is an applied science that deals with quantitative decision making, usually involving the allocation and control of limited resources. Its focus is using advanced analytical methods for industrial decision making via mathematical optimization and statistical analysis. This course will provide students with the tools and concepts to analyze real world problems in terms of economics and risk.

P: MATH 104 with a C or better or higher level math placement and junior standing. REC: MATH 260 or other introductory statistics course.

**ME 336. Fluids. 3 Credits.**

This course provides an introduction to fluid properties, fluid statics, and fluid dynamics; potential flow; dimensional analysis; closed conduits and external flow; boundary-layer theory; compressible flows; and turbomachinery.

P: ME 214 with a C or higher, MATH 209 with a C or higher, and MATH 305 with a C or higher OR concurrent enrollment

Fall Only.

**ME 337. Fluids Lab. 1 Credit.**

This laboratory course introduces students to the experimental analysis of Fluid Dynamics concepts including measurement of fluid properties, applications of Bernoulli's equation, and fluid power systems.

P: ME 336 with a C or higher or concurrent enrollment

Fall Only.

**ME 340. Analysis of Dynamic Systems. 3 Credits.**

This course introduces students to mathematical modeling and analysis of dynamic systems with mechanical, thermal, and fluid elements. Topics include time and frequency domain solutions, linearization techniques, state space modeling and solutions.

P: ME 204 with a C or higher, ENGR 214 with a C or higher, MATH 209 with a C or higher, and MATH 305 with a C or higher

Spring.

**ME 344. Mechanical Vibration. 3 Credits.**

Mechanical structures and systems are susceptible to vibrations, i.e. periodic changes in the physical state. Vibrations can both be a hindrance and a benefit to machines. This course studies about modeling and analyzing single and multiple degrees of freedom systems. Vibrations of machine elements. Design vibration isolation systems. Balance rotating machinery. Random excitation and response of mechanical structures. Students will utilize basic MATLAB skills to solve problems related to vibrations. Students who completes this course should have a clear understanding of vibrations and modeling of mechanical systems. They will analyze free and forced vibrations and will develop mathematical techniques to model and design mechanical systems.

P: MATH 305 with a C or higher or concurrent enrollment, MATH 209 with a C or higher, and ME 214 with a C or higher.

**ME 408. Finite Element Analysis. 3 Credits.**

Applying introductory concepts of finite element methods like direct stiffness, energy and/or weighted residual methods in analytically solving linear and nonlinear structural and thermal problems. Introduces common finite element programs used in academia and industry. Formulate 1D, 2D and 3D elements models. Comparison of exact solutions with approximate finite element predictions

P: MET 207 with a C or higher, ME 204 with a C or higher, and ME 220 with a C or higher

Fall Only.

**ME 420. Machine Component Design I. 3 Credits.**

Detailed design and selection of machine components such as shafts, fasteners, springs, and gears. Analysis of stresses and deformation of the machine components under combined static and dynamic loads, stress concentrations, and fatigue.

P: ME 220 with a C or higher

Fall Only.

**ME 422. Machine Component Design II. 3 Credits.**

Design of advanced machine elements such as bearings, gears, brakes, clutches, flywheels, and flexible mechanical elements. Application of mechanics, materials and machine components principles and methods to design mechanical devices and assemblies.

P: ME 420 with a C or higher

Spring.

**ME 430. Heat Transfer. 3 Credits.**

This course teaches students fundamental concepts of steady-state and transient conduction, convection, and radiation. It also includes an introduction to heat exchanger principles and applications.

P: ME 324 with a C or higher, MATH 209 with a C or higher, and MATH 305 with a C or higher

Spring.

**ME 431. Thermal Lab. 1 Credit.**

This laboratory course includes thermodynamic experiments such as gas laws and internal combustion engines, and heat transfer experiments on conduction, convection and radiation.

P: ME 430 with a C or higher or concurrent enrollment

Spring.

**ME 432. Automatic Controls. 3 Credits.**

This combined lecture and lab course gives students an introduction to feedback control system concepts; mathematical modeling of mechanical, hydraulic, electro-mechanical, and servo systems; feedback system characteristics and performance; stability; design; and compensation of control systems.

P: ME 340 with a C or higher

Fall Only.

**ME 460. Senior Design. 3 Credits.**

Senior design is the mechanical engineering synthesis course in which students complete a senior design process that includes project proposal, design definition, design analysis, design completion, oral presentation, and a written report.

P: Senior standing in Mechanical Engineering major or Mechanical Engineering Technology major

Spring.

**ME 494. Co-op. 1-2 Credits.**

Participation in a full-time position at a host organization providing direct, on-the-job experience with professionals already successful in the selected field. The co-op will be in a position closely related to a professional career associated with the major. Students must complete at least two (2) co-op credits during the fall or spring semester and one (1) credit in the summer to be considered full-time status. Course is repeatable for credit. No more than 6 credits may be used to meet requirements for a major and no more than 3 credits may be used to meet requirements for a minor; may vary by academic department.

P: Junior standing and minimum 2.0 GPA in major emphasis (Dept. will monitor GPA req.).

**ME 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.

## Mechanical Engineering Technology (MET)

### Courses

**MET 105. Fundamentals of Drawing. 3 Credits.**

This course equips students with the computer aided design software tools such as AutoCAD to generate 2D engineering graphics, including engineering drawings, that meet industry standards.

P: MATH 101 with at least a C grade or WPT-MFND score >465 and WPT-AALG score >525, AND in Mechanical, Electrical, or Environmental Engineering Technology major or Electrical Engineering major or Electrical Engineering Principles Certificate

Fall and Spring.

**MET 207. Computer Aided Design. 3 Credits.**

This course introduces students to the creation of 2D sketching and engineering drawings using the AutoCAD software. In addition, this course provides skills and knowledge to enhance computer-aided design and solid modeling concepts with the help of the SOLIDWORKS software. Also Introduces kinematics motion and finite element simulation concepts to design and analyze parts.

FSS.

**MET 218. Fluid Mechanics. 3 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: PHYSICS 103 with a C or higher OR PHYSICS 201 with a C or higher OR ME 213 with a C or higher, and declared major in Environmental Engineering Technology or Mechanical Engineering Technology

Spring.

**MET 318. Fluid Power Systems. 3 Credits.**

This course covers the concept of fluid power and introduces common hydraulic and pneumatic systems used in engineering applications. Design, analysis, operation, maintenance, and application of these fluid power systems are discussed. Topics also include fluid directional, flow and pressure control.

P: MET 218 with a C or higher

Fall Only.

**MET 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: ME 308 with a C or higher, and declared major in Mechanical Engineering Technology

Spring.

**MET 380. Industrial Automation Control. 3 Credits.**

This course provides exposure to the technology of automation and control for both discrete and continuous manufacturing industries; architecture of industrial automation systems; introduction to automatic control; fundamentals and programming principles of programmable logic controllers (PLC) and relay logic controllers (RLL).

P: ME 216 with a C or higher, and ME 308 with a C or higher

Fall Only.

**MET 385. Robotics. 3 Credits.**

This course introduces the fundamentals of robotics, transformation of coordinate frame, kinematics, dynamic modeling, trajectory generation and control of robots. Will involve robot simulations using MATLAB/Simulink.

P: ME 204 with a C or higher, and ME 214 with a C or higher

Fall Only.

**MET 390. Mechatronics. 3 Credits.**

This course provides the knowledge and skills for the design and development of mechanical systems that utilize microcontrollers (dedicated control computers) in order to achieve performance that is not possible with purely mechanical systems, for example: feedback control, automatic acquisition of performance data, adaptive behavior, and interacting with operators (user interface). Students will gain lab-based, hands-on exposure to the design of mechatronic systems including: real-time programming of a microcontroller; selecting sensors and actuators and interfacing them to a microcontroller; and the development and testing of an actual mechatronic system. In addition, students will gain an appreciation for key aspects of mechatronic systems including: sampling rates, noise, interrupts, open and closed-loop control, system integration, and the importance of good documentation.

P: ME 204 with a C or higher, and ME 308 with a C or higher

Spring.

**MET 405. Applied Thermodynamics. 3 Credits.**

This course provides senior level students with an overview of applied thermodynamics. Students will apply basic thermodynamics laws to analyze different cycles and systems, including: Vapor power cycles; Gas power cycles; Internal combustion engines; Refrigeration cycles and air conditioning systems; Combined heat and power (CHP) systems; Waste heat recovery technologies, especially organic Rankine cycles.

P: ME 324 with a C or higher

Spring.

## Military Science (MIL SCI)

### Courses

**MIL SCI 101. Leadership and Military Science I. 2 Credits.**

This is an introductory course designed to focus on the fundamental components of service as an officer in the United States Army. Students are familiarized with individual values, leadership traits and the fundamentals of officer ship. Students also learn "life skills" of physical fitness, communication applications, both oral and written, as well as interpersonal relationships. The lab provides basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance, and squad battle drills. Additionally, students learn basic map reading, first aid, physical fitness, and military formations to include basic marching techniques.

Fall Only.

**MIL SCI 102. Leadership and Military Science II. 2 Credits.**

This course is an orientation to leadership theory and the fundamentals of decision-making process by learning how to solve problems and develop critical thinking skills. Students develop followership skills and the ability to learn goal-setting techniques while working in a group interaction setting. The lab continues to provide basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance and squad battle drills. Students are introduced to the operations order format.

Spring.

**MIL SCI 103. Introduction to Military Science I. 1 Credit.**

An introductory course designed to focus on the fundamental components of service as an officer in the United States Army. Students are familiarized with individual values, leadership traits and the fundamentals of officer ship. Students also learn "life skills" of physical fitness, communication applications, both oral and written, as well as interpersonal relationships. The course provides basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance, and squad battle drills. Additionally students learn basic map reading, first aid, physical fitness, and military formations to include basic marching techniques. Students are eligible to attend Fox Valley Battalion events to include; Ranger Challenge, Commanders Cup competition and the Military Dining In.

Fall Only.

**MIL SCI 104. Introduction to Military Science II. 1 Credit.**

Further development of leadership skills and the orientation of the ROTC program designed to focus on the fundamental components of service as an officer in the United States Army. Students are familiarized with individual values, leadership traits and the fundamentals of officer ship. Students also learn "life skills" of physical fitness, communication applications, both oral and written, as well as interpersonal relationships. the course provides basic instruction on squad movement techniques and the six-squad tactical missions of patrolling, attack, defense, ambush, reconnaissance, and squad battle drills. Additionally students learn basic map reading, first aid, physical fitness, and military formations to include basic marching techniques. Students are eligible to attend Fox Valley Battalion events to include: Ranger Buddy, Northern Warfare Challenge, Norwegian Foot March, German Armed Forces Badge Competition and the Military Ball.

Spring.

**MIL SCI 183. Military Conditioning. 1 Credit.**

Students participate in the United States Army's military conditioning and fitness program designed to develop both individual fitness and the leadership skills and knowledge essential to the management of an effective organizational physical fitness program. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

Fall and Spring.

**MIL SCI 201. Basic Leadership and Management I. 3 Credits.**

Students learn how to resolve ethical problems by applying leadership theory and principles. Students learn self-development techniques such as the importance of stress management, time management and the ability to solve problems. Lastly, students apply communication theory and skills in a leadership study focusing on problem solving. The lab applies basic leadership theory and decision making during practical exercises in a field environment. Students continue to develop basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101 and Mil Sci 102

Fall Only.

**MIL SCI 202. Basic Leadership and Management II. 3 Credits.**

Students focus primarily on leadership with an extensive examination of the unique purpose, roles and obligations of commissioned officers. Students also focus, in detail, on the origin of our institutional values and their practical application in the decision-making process and leadership theory. Students use case studies to learn the Army's ethical decision-making process. The lab continues to apply basic leadership theory and decision making during practical exercises in a field environment. Students continue to develop basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101 and Mil Sci 102

Spring.

**MIL SCI 301. Advanced Leadership and Management I. 4 Credits.**

Students are introduced to the Leader Development Program that will be used to evaluate their leadership performance and provide developmental feedback for the remainder of their cadet years. Cadets are taught how to plan and conduct individual and small unit training, as well as basic tactical principles. Cadets will also learn reasoning skills and the military specific application of these skills in the form of the Army's troop. The lab reinforces small unit tactical training while employing the troop leading procedure to accomplish planning and decision-making. Students continue to learn basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101, 102, 201, and 202

Fall Only.

**MIL SCI 302. Advanced Leadership and Management II. 4 Credits.**

The course focus is doctrinal leadership and tactical operations at the small unit level. Students are provided opportunities to plan and conduct individual and collective training for Army operations. Synthesizing training, leadership and team building is the primary focus. Upon completion, students possess the fundamental confidence and competence of leadership in a small unit setting. The lab continues reinforcing small unit tactical training while employing the troop leading procedures to accomplish planning and decision-making. Students also continue basic map reading, first aid, physical fitness and military formations to include basic march techniques.

P: Mil Sci 101, 102, 201 and 202

Spring.

**MIL SCI 401. Applied Leadership and Management I. 4 Credits.**

This course concentrates on leadership, management and ethics to begin the final transition from cadet to lieutenant. Students focus on attaining the knowledge and proficiency in several critical areas they need to operate effectively as Army Officers. These areas include coordinating activities with staff, counseling theory and practice within the "Army Context," training management and ethics. Students develop and possess the fundamental skills, attributes and abilities to operate as competent leaders in a cadet battalion. They must confidently communicate to subordinate cadets their preparedness to shoulder the responsibilities entrusted to them.

P: Mil Sci 301 and Mil Sci 302

Fall Only.

**MIL SCI 402. Applied Leadership and Management II. 4 Credits.**

Students learn the legal aspects of decision-making and leadership. Instruction introduces the student to the organization of the Army from the tactical to the strategic level. Students learn administrative and logistical management focusing on the fundamentals of soldier and unit level support. Practical exercises require the student, both individually and collectively, to apply their knowledge to solve problems and confront situations commonly faced by junior officers. The lab continues to sharpen the students' leadership skills. Students normally change leadership positions to hone their skills, attributes and abilities as leaders. Again, they must confidently communicate to subordinate cadets their preparedness to shoulder the responsibilities entrusted to them.

P: Mil Sci 301 and Mil Sci 302

Spring.

**MIL SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.



# Marketing (MKTG)

## Courses

### **MKTG 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.  
Reserved for New Incoming Freshman  
Fall Only.

### **MKTG 297. Internship. 1-6 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit; may be taken 3 times for a total of 6 credits. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.  
FSS.

### **MKTG 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.

### **MKTG 322. Principles of Marketing. 3 Credits.**

The marketing system and the managerial techniques used to market goods, services and organizations. Relationships between marketing activities and economic, political and social institutions; understanding consumer behavior; product, price, promotion and distribution decisions.

P: Sophomore status

Fall and Spring.

### **MKTG 325. Negotiation and Conflict Resolution. 3 Credits.**

This course explores the theory and practice of negotiation and conflict resolution in professional and organizational contexts. Students will develop essential skills for identifying, analyzing, and resolving conflicts through effective negotiation strategies. Topics include understanding the dynamics of conflict, negotiation styles, communication techniques, and cultural considerations. Students will learn to apply practical frameworks for achieving mutually beneficial outcomes, managing difficult conversations, and fostering collaboration. This course is designed for professionals in management, human resources, and other fields where negotiation and conflict resolution are critical.

P: MKTG 322

Spring.

### **MKTG 327. Selling and Sales Management. 3 Credits.**

Principles and techniques of successful selling that lead to a mutually profitable relationship between salesperson and customer. The nature and scope of sales management: selecting and training sales personnel, importance of customer satisfaction, relationship of company philosophy to the sales force, fundamentals of communication processes.

P: MKTG 322 and an overall minimum GPA of 2.5

Fall Only.

### **MKTG 345. Digital Marketing. 3 Credits.**

The course examines marketing from a digital marketing perspective. It helps students to get a detailed understanding of all digital marketing strategies like online advertising, digital display, video, mobile, and search engine management. Students will learn to develop, evaluate, and execute a comprehensive digital marketing strategy and plan. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Sophomore status and an overall minimum GPA of 2.5

Fall and Spring.

### **MKTG 421. International Marketing. 3 Credits.**

The course is designed to help students explore the global market via the disciplines of economics, cultural studies, geography, history, languages, jurisprudence, demographics, politics, and many others. The opportunities and the threats that emanate from the global marketplace are highlighted, and the need for an international marketing approach on the part of individuals and institutions is emphasized.

P: MKTG 322 and an overall minimum GPA of 2.5

Fall and Spring.

**MKTG 423. Advertising. 3 Credits.**

Developing and executing advertising campaigns; how these campaigns fit into the total marketing mix; social, legal, and economic considerations and constraints involved in the advertising campaign planning process. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: MKTG 322 and an overall minimum GPA of 2.5

Fall and Spring.

**MKTG 424. Research Methods. 3 Credits.**

This marketing course focuses on different techniques of obtaining and analyzing information about marketing problems; obtaining and interpreting data from primary and secondary sources for business decisions that deal with different aspects of marketing.

P: BUSAN 220 or MATH 260; MKTG 322 or consent of the instructor; and an overall minimum GPA of 2.5

Spring.

**MKTG 426. Marketing Strategy. 3 Credits.**

Advanced level course in marketing. Strategic interrelationships, development of analytical techniques and abilities and decision making in marketing.

P: MKTG 322 and an overall minimum GPA of 2.5

Spring.

**MKTG 428. Consumer Behavior. 3 Credits.**

Theories of buyer behavior, including ultimate and industrial customers, and their implications for marketing management.

P: MKTG 322 and an overall minimum GPA of 2.5

Fall and Spring.

**MKTG 447. Social Media Marketing and Analytics. 3 Credits.**

The course introduces fundamentals of social media marketing. The course examines the basics of social media marketing, highlights the importance, and introduces contemporary resources to students. Topic covered include social media platforms (e.g., Facebook, Twitter, Instagram, YouTube), advertising on social media platforms, content analyses, content development, influencer marketing, and social media marketing plans. The course adopts a hands-on approach combining lectures with experiential learning and industry certifications

P: Sophomore standing and an overall minimum GPA of 2.5

Fall Only.

**MKTG 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.

**MKTG 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Overall minimum GPA of 2.5

Fall and Spring.

**MKTG 496. Project/Research Assistantship. 1-6 Credits.**

The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**MKTG 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. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.



**MKTG 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: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

## Music Applied (MUS APP)

### Courses

**MUS APP 11. Keyboard Musicianship I. 1 Credit.**

Instruction in basic keyboard skills to include scales, chords, simple accompaniments, and beginning to intermediate solo literature.

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: None. REC: MUS APP 11

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: None. REC: MUS APP 21

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: None. REC: MUS APP 31

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. Basic instruction on the Ukulele will also be included.

P: MUSIC 253 and must provide guitar.

Spring.

**MUS APP 101. Keyboard Lessons 1. 1-2 Credits.**

Students study the solo literature of keyboard instruments through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 151 or 152; Conc Enr in MUS ENS 241 or 261 or 262

Fall and Spring.

**MUS APP 102. Keyboard Lessons 2. 1-2 Credits.**

Students study the solo keyboard literature through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 151 or MUSIC 152; Conc Enr in MUS ENS 241 or MUS ENS 261 or MUS ENS 262; Minimum grade of C in MUS APP 101

Fall and Spring.

**MUS APP 105. Voice Lessons 1. 1-2 Credits.**

Students study the solo literature of their voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply. Course is repeatable for credit; may be taken for a total of 2 credits.

P: Conc enr in or completion of MUSIC 151 or 152; Conc Enr in MUS ENS 261 or 262 (TERM SPECIFIC)

Fall and Spring.

**MUS APP 106. Voice Lessons 2. 1-2 Credits.**

Students study the solo literature of their voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 151 or MUSIC 152; Conc Enr in MUS ENS 261 or MUS ENS 262; Minimum grade of C in MUS APP 105. Fall and Spring.

**MUS APP 127. Instrumental Lessons 1. 1-2 Credits.**

Students study the solo literature through private instruction. The development of technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 151; Conc enr in MUS ENS 241 REC: Conc enr in MUSIC 115 Fall and Spring.

**MUS APP 128. Instrumental Lessons 2. 1-2 Credits.**

Students study the solo literature through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 152; Conc enr in MUS ENS 241; Minimum grade of C in MUS APP 127. REC: Conc enr in MUSIC 116. Fall and Spring.

**MUS APP 201. Keyboard Lessons 3. 1-2 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 253 or MUSIC 254; Conc Enr in MUS ENS 241 or MUS ENS 261 or MUS ENS 262 or MUS ENS 441 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 102 Fall and Spring.

**MUS APP 202. Keyboard Lessons 4. 1-2 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 253 or MUSIC 254; Conc Enr in MUS ENS 241 or MUS ENS 261 or MUS ENS 262 or MUS ENS 441 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 201 Fall and Spring.

**MUS APP 205. Voice Lessons 3. 1-2 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 253 or MUSIC 254; Conc Enr in MUS ENS 261 or MUS ENS 262; Minimum grade of C in MUS APP 106. Fall and Spring.

**MUS APP 206. Voice Lessons 4. 1-2 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 253 or MUSIC 254; Conc Enr in MUS ENS 261 or MUS ENS 262 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 205. Fall and Spring.

**MUS APP 227. Instrumental Lessons 3. 1-2 Credits.**

Students study the solo literature through private instruction. The development of proper technique, historically accurate interpretations, and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 253; Conc Enr in MUS ENS 241 or 441; Minimum grade of C in MUS APP 128. Fall and Spring.

**MUS APP 228. Instrumental Lessons 4. 1-2 Credits.**

Students study the solo literature of percussion through private instruction. The development of proper technique, stylistically appropriate interpretations, and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 254; Conc Enr in MUS ENS 241 or 441; Minimum grade of C in MUS APP 227. REC: Conc enr in MUSIC 354. Fall and Spring.

**MUS APP 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**MUS APP 301. Keyboard Lessons 5. 1-3 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353 or MUSIC 354; Conc enr in MUS ENS 441 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 202 Fall and Spring.

**MUS APP 302. Keyboard Lessons 6. 1-3 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353 or MUSIC 354; Conc Enr in MUS ENS 241 or MUS ENS 261 or MUS ENS 262 or MUS ENS 441 or MUS ENS 461 or MUS ENS 462; Minimum Grade of C in MUS APP 301

Fall and Spring.

**MUS APP 305. Voice Lessons 5. 1-3 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353 or MUSIC 354; Conc Enr in MUS ENS 261 or MUS ENS 262 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 206.

Fall and Spring.

**MUS APP 306. Voice Lessons 6. 1-3 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353 or MUSIC 354; Conc Enr in MUS ENS 261 or MUS ENS 262 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 305.

Fall and Spring.

**MUS APP 327. Instrumental Lessons 5. 1-3 Credits.**

Students study the solo literature of percussion through private instruction. The development of proper technique, stylistically appropriate interpretations, and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353; Conc enr in MUS ENS 441; Minimum grade of C in MUS APP 228.

Fall and Spring.

**MUS APP 328. Instrumental Lessons 6. 1-3 Credits.**

Students study the solo literature through private instruction. The development of proper technique, stylistically appropriate interpretations, and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 354; Conc enr in MUS ENS 441; Minimum grade of C in MUS APP 327.

Fall and Spring.

**MUS APP 396. Junior Recital. 0 Credits.**

Required of students pursuing the B.M. degree. An elective course for any other student who qualifies.

P: Music major and concurrent enrollment in Mus App 302, 306, or 328.

Fall and Spring.

**MUS APP 401. Keyboard Lessons 7. 1-3 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353 & MUSIC 354; Conc Enr in MUS ENS 441 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 302

Fall and Spring.

**MUS APP 402. Keyboard Lessons 8. 1-3 Credits.**

Students study the solo literature of the piano through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353 or MUSIC 354; Conc Enr in MUS ENS 441 or MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 401

Fall and Spring.

**MUS APP 405. Voice Lessons 7. 1-3 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: MUSIC 353 & MUSIC 354; Conc Enr in MUS ENS 461 or MUS ENS 462; grade of C or better in MUS APP 306.

Fall and Spring.

**MUS APP 406. Voice Lessons 8. 1-3 Credits.**

Students study the solo literature of voice through private instruction. The development of proper technique and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: MUSIC 353 & MUSIC 354; Conc Enr in MUS ENS 461 or MUS ENS 462; Minimum grade of C in MUS APP 405.

Fall and Spring.

**MUS APP 427. Instrumental Lessons 7. 1-3 Credits.**

Students study the solo literature through private instruction. The development of proper technique, stylistically appropriate interpretations, and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 353; Conc enr in MUS ENS 441; Minimum grade of C in MUS APP 328.

Fall and Spring.

**MUS APP 428. Instrumental Lessons 8. 1-3 Credits.**

Students study the solo literature through private instruction. The development of proper technique, stylistically appropriate interpretations and a mature tone are significant components. Placement is by audition. Special enrollment restrictions apply.

P: Conc enr in or completion of MUSIC 354; Conc enr in MUS ENS 441; Minimum grade of C in MUS APP 427.

Fall and Spring.

**MUS APP 496. Senior Recital. 1 Credit.**

Students will research historical, social, cultural, and/or musically significant aspects of the literature they perform. The research will be presented in performance, writing, and/or other media. Students will be responsible for developing and carrying out a promotional plan for their recital. Required of students pursuing the B.M. degree with an emphasis in performance.

P: Music major and concurrent enrollment in Mus App 402, 406, or 428.

Fall and Spring.

**MUS APP 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**MUS APP 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

## Music Ensemble (MUS ENS)

### Courses

**MUS ENS 142. Jazz Combo. 1 Credit.**

Combos are open to all students by audition. Groups consist of rhythm section plus three or four horns. Students are required to arrange standard tunes or compose original tunes for the ensemble. Combos perform both on and off campus.

P: audition.

Fall and Spring.

**MUS ENS 143. Jazz Ensemble. 1 Credit.**

Jazz ensembles are open to all students by audition. The literature performed includes traditional swing and many other contemporary styles. The ensembles rehearse regularly and perform on and off campus.

P: audition.

Fall and Spring.

**MUS ENS 144. Woodwind Ensemble. 1 Credit.**

This ensemble performs a variety of literature from the Baroque to the present, specializing in works for small ensembles including: saxophone quartet, woodwind quintet, clarinet trios, flute trios, choirs of instruments, and mixed ensembles. This ensemble is open to all students by audition.

P: audition.

Fall and Spring.

**MUS ENS 145. Brass Ensemble. 1 Credit.**

Brass ensemble is open to students of all majors who have proficiency on a brass instrument. The instrumentation is flexible, performing music that ranges from brass choirs and large fanfares to chamber music such as quintets, duets, and trios.

P: Audition

Fall Only.

**MUS ENS 146. Contemporary Percussion Ensemble. 1 Credit.**

The Contemporary Percussion Ensemble performs the most serious literature written for this genre. Its repertory centers around music by American composers. University-owned equipment is provided. Open to all university students by audition.

P: audition.

Fall and Spring.

**MUS ENS 147. World Pop Ensemble. 1 Credit.**

World Pop Ensemble is open to any instrumentalist or vocalist by audition. The course focuses on study and performance of popular music styles built around medium-sized (6-12 players) groups using mostly traditional European instruments. Repertoire will be chosen from many styles, including but not limited to: Balkan brass, New Orleans funk, Afropop, Polka, Klezmer, Blues, and Tango. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

Fall Only.

**MUS ENS 150. New Music Ensemble. 1 Credit.**

This chamber ensemble is open to all university students by audition. It performs music composed since 1945. A variety of styles are explored which include avant garde, graphic, serial, neoclassic, minimalist, and new-romantic.

P: Audition

Spring.

**MUS ENS 151. Chamber Strings. 1 Credit.**

The Chamber Strings course aims to expose students to a diverse range of String Chamber music literature while fostering their musical abilities. It caters to both individuals without existing groups and those seeking to enhance their existing musical collaborations. The curriculum features a wide selection of works ranging from classical to contemporary pieces. Moreover, the course also emphasizes the development of technical skills, score reading, and music history knowledge. May be repeatable for credit.

P: Audition

Fall and Spring.

**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 MUS APP 105 or THEATRE 190

Spring.

**MUS ENS 188. Hand Drumming Ensemble. 1 Credit.**

The Hand Drumming Ensemble is a 15-member ensemble which performs music based on the traditional music of West Africa, Cuba, and South America. University-owned equipment is provided. This course is open to all university students by audition.

P: audition.

Fall and Spring.

**MUS ENS 241. Concert Bands and Orchestra. 1 Credit.**

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. 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. The String Ensemble is comprised of strings students (violin, viola, cello, and string bass). Open to music majors, minors, and non-music majors, the ensemble provides an inclusive environment for students to develop their skills, collaborate, and explore a diverse repertoire of string music. Auditions are optional. The University Orchestra combines musicians from the Wind and String Ensembles to perform a diverse repertoire, including classical and contemporary works. Open to students from all disciplines, the ensemble emphasizes collaboration, musicianship, and artistic excellence in its performances.

P: The UW Green Bay Wind Ensemble: qualified students from all majors are encouraged to audition; The Symphonic Band: auditions are optional; The String Ensemble: auditions are optional

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 347. World Pop Ensemble. 1 Credit.**

World Pop Ensemble is open to any instrumentalist or vocalist by audition. The course focuses on study and performance of popular music styles built around medium-sized (6-12 players) groups using mostly traditional European instruments. Repertoire will be chosen from many styles, including but not limited to: Balkan brass, New Orleans funk, Afropop, Polka, Klezmer, Blues, and Tango. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

Fall Only.

**MUS ENS 350. New Music Ensemble. 1 Credit.**

This chamber ensemble is open to all university students by audition. It performs music composed since 1945. A variety of styles are explored which include avant garde, graphic, serial, neoclassic, minimalist, and new-romantic.

P: Junior status and audition

Spring.

**MUS ENS 363. Chamber Singers. 1 Credit.**

Chamber Singers is an auditioned select choral ensemble open to all students. Its repertory consists of music suitable for small chamber choirs, including Renaissance Madrigals, Chansons and Lieder, Romantic Partsongs, and selected music from other style periods.

P: jr st and audition.

Fall and Spring.

**MUS ENS 365. Vocal Jazz Ensemble. 1 Credit.**

Vocal jazz is open to all students by audition. The ensemble is limited to 20 voices plus rhythm section. Students perform standard jazz literature in a group and solo setting, improvise using scat singing and study contemporary singing styles. The ensemble performs on and off campus.

P: jr st and audition.

Fall and Spring.

**MUS ENS 366. Opera 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 MUS APP 45 or THEATRE 190

Spring.

**MUS ENS 388. Hand Drumming Ensemble. 1 Credit.**

The Hand Drumming Ensemble is a 15-member ensemble which performs music based on the traditional music of West Africa, Cuba, and South America. University-owned equipment is provided. This course is open to all university students by audition.

P: audition.

Fall and Spring.

**MUS ENS 441. Concert Bands and Orchestra. 1 Credit.**

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. 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. The String Ensemble is comprised of strings students (violin, viola, cello, and string bass). Open to music majors, minors, and non-music majors, the ensemble provides an inclusive environment for students to develop their skills, collaborate, and explore a diverse repertoire of string music. Auditions are optional. The University Orchestra combines musicians from the Wind and String Ensembles to perform a diverse repertoire, including classical and contemporary works. Open to students from all disciplines, the ensemble emphasizes collaboration, musicianship, and artistic excellence in its performances.

P: Wind Ensemble: qualified students from all majors are encouraged to audition; Symphonic Band: audition is optional; String Ensemble: auditions is optional

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 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.

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

Spring.

**MUSIC 120. Video Game Music. 3 Credits.**

This course will equip students to understand the interdisciplinary role, historical progression, musical methodology, technological application, and unique artistry of music in video games. Students will contribute to the class learning environment by researching and presenting a game music composer from an interdisciplinary perspective. Through guided instruction, students will also compose their own basic game music. (No musical background required!)

Fall and 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.

FSS.

**MUSIC 122. Electronic Music Production. 3 Credits.**

This project-based course will teach the basic principles of modern music production using the Ableton Live software platform. Topics covered include audio and MIDI tracking, clip editing, software instruments, effects, synthesis, sampling, and elementary editing and mixing.

Fall and Spring.

**MUSIC 123. Introduction to DJ Techniques. 3 Credits.**

This course covers the skills needed to start DJ'ing on the Serato software platform, including basic equipment setup and signal flow, using hardware turntable controllers, identifying song attributes such as meter and BPM, counting bars, handling song transitions, scratching, and how to build a DJ set.

Fall and Spring.

**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.

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 165. Fundamentals of Recording Technology. 1 Credit.**

Survey of fundamental audio topics, including wave propagation, basic electrical concepts, microphone construction and use, audio interconnections, and gain structure. This course also includes formal technical familiarization with UW-Green Bay's audio production facilities and related performance venues.

P: Instructor permission required for students not pursuing the BA Music emphasis in Audio Production

Fall Only.

**MUSIC 166. Basic Studio Practices. 3 Credits.**

Introduction to the basic operations of a small recording studio, including signal flow, basic mic techniques, tracking session procedures, basic mixing, and studio care and maintenance.

REC: MUSIC 165

Spring.

**MUSIC 170. Fundamentals of Music. 3 Credits.**

This course is designed to acquaint the student with the fundamentals of music through experiences with the keyboard, rhythm instruments, singing, listening, and note reading.

Spring.

**MUSIC 198. First Year Seminar. 3 Credits.**

First Year Seminar

Reserved for New Incoming Freshman.

**MUSIC 209. Applied Composition. 1 Credit.**

An individualized approach to the study of music composition, with an emphasis on small-scale forms and small ensemble works. Course is repeatable for credit; may be taken 4 times for a total of 4 credits.

P: Completion of MUSIC 152 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

Fall Only.

**MUSIC 220. Introduction to Jazz Theory and Improvisation. 2 Credits.**

An introduction to jazz theory and improvisation through lecture and classroom performance on instrument and voice. Emphasis will be placed on scales, modes and harmonic progressions which are common to the jazz repertoire.

P: Music 151 or conc enr. Rec: ability to read music.

Spring Even.

**MUSIC 224. Popular Music Since 1955. 3 Credits.**

Evolution of popular music since 1955 and its relationship to society; an exploration of the cultural, commercial, and technological forces that have shaped music and the ways in which we consume it.

FSS.



**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: MUSIC 116 and MUSIC 152 with a grade of C or better, and completion of MUS APP 102, MUS APP 106 or MUS APP 128

Fall Only.

**MUSIC 254. Music Theory IV. 3 Credits.**

Advanced study of chromatic tonality in music: methods of modulation, reductionism, advanced chromatic functions, enharmonicism, and materials of impressionism and 20th century technique.

P: Successful completion of MUSIC 215 and 253. REC: conc enr MUSIC 354.

Spring.

**MUSIC 265. Audio Engineering I. 3 Credits.**

Project-based course addressing intermediate skills in the recording studio, as well as basic analog audio concepts, including elementary circuit construction, resistive and reactive components, amplification, analog filters, and transformers.

P: MUSIC 165. REC: MUSIC 166

Fall Only.

**MUSIC 266. Audio Engineering II. 3 Credits.**

Project-based course addressing intermediate skills in the recording studio, as well as basic digital audio concepts, including basic audio encoding, quantization, sampling, error correction, anti-aliasing and smoothing filters, dither, Fourier transforms, and audio analysis in time and frequency domains..

P: MUSIC 166. REC: MUSIC 265

Spring.

**MUSIC 272. Women in the Performing Arts. 3 Credits.**

This interdisciplinary course examines the contributions of women in the performing arts and looks closely at the factors which constrain and further women's creativity in a variety of performing genres: dance, theater, opera, musical theater, conducting, composition, etc.

Spring Even.

**MUSIC 283L. Integrated Materials in Music. 2 Credits.**

A study of the basic materials of music theory with an integrated approach to the visual or aural recognition of those materials.

**MUSIC 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**MUSIC 301. Audio Synthesis. 3 Credits.**

Addresses the fundamentals of audio synthesis in software and hardware environments, focusing on modular and semi-modular approaches, along with related topics such as Fourier synthesis and MIDI.

P: MUSIC 151 or conc enr

Fall Only.

**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. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.

P: MUSIC 253 and MUS APP 11; 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 and one of the following; MUS APP 102, MUS APP 104, MUS APP 106 or MUS APP 128  
Fall Only.

**MUSIC 341. Woodwind Techniques. 2 Credits.**

Experience in the performance, pedagogy and critical evaluation of woodwind instruments, including flute, oboe, bassoon, clarinet, and saxophone. Experience arranging and adapting music for woodwind players in school ensembles.

P: Music 152 or 153 and one of the following; Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 or 138.  
Fall Even.

**MUSIC 342. Brass Techniques. 2 Credits.**

Experience in the performance, pedagogy and critical evaluation of brass instruments, including trumpet, French horn, trombone, baritone, and tuba. Experience arranging and adapting music for brass instruments in student ensembles.

P: MUSIC 152 or 153 and one of the following; Mus App 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 or 138.  
Fall Odd.

**MUSIC 343. String Techniques. 2 Credits.**

Experience in the performance, pedagogy and critical evaluation of string instruments, including violin, viola, violoncello and string bass. Experience arranging and adapting music for string players in school ensembles.

P: MUSIC 152 and one of the following; MUS APP 102, MUS APP 106 or MUS APP 128  
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 365. Audio Engineering III. 3 Credits.**

Project-based course addressing advanced skills in the recording studio, as well as intermediate analog audio concepts, including amplifier design, semiconductors, transistors, integrated circuits, and operational amplifiers.

P: MUSIC 265. REC: MUSIC 266

Fall Only.

**MUSIC 366. Audio Engineering IV. 3 Credits.**

Project-based course addressing advanced skills in the recording studio as well as intermediate concepts in digital audio and acoustics.

P: MUSIC 266. REC: MUSIC 365

Spring.

**MUSIC 370. Immersive Audio. 3 Credits.**

Addresses theoretical concepts in multichannel and immersive audio formats and practical applications in the Dolby Atmos environment.

P: MUSIC 265

Spring.

**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 455. Orchestration. 3 Credits.**

This course introduces the basic principles of orchestration and arranging for choral, wind, string, and jazz/pop ensembles. Emphasis is upon the development of practical and technical skills, including score and part preparation and idiomatic writing for ensembles of varying levels. Several hands-on orchestration and arranging projects will promote interactive student learning.

P: MUSIC 103, MUSIC 151, and MUSIC 152

Fall Even.

**MUSIC 465. Senior Audio Practicum. 3 Credits.**

Practical work in 1) the preproduction and tracking phases of large-scale student-directed audio production projects, such as full-length albums or full seasons of audio narrative programming, and 2) recording studio facility management and maintenance.

P: MUSIC 365. REC: MUSIC 366

Fall Only.

**MUSIC 466. Professional Aspects in Audio Production. 3 Credits.**

Development of pragmatic skills for entry into audio production careers, including expectations of engineers as employees or freelancers, taxes and finances, equipment and facilities, client relations, and related topics.

P: MUSIC 366

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 481. Audio Production Capstone. 3 Credits.**

This course is the expected capstone for the BA Music emphasis in Audio Production, including practical work in 1) the mixing, mastering, and post-production phases of large-scale student-directed audio production projects, such as full-length albums or full seasons of audio narrative programming, and 2) recording studio facility management and maintenance.

P: MUSIC 365 and MUSIC 366. REC: MUSIC 465, concurrent enrollment in MUSIC 466

Spring.

**MUSIC 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**MUSIC 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**MUSIC 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Nursing (NURSING)

### Courses

**NURSING 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary

P: Reserved for New Incoming Freshmen

Fall Only.

**NURSING 200. Fundamentals of Healthcare Terminology. 3 Credits.**

Healthcare professionals have their own language and terminology. If you are interested in pursuing a career in healthcare, health science, or human service, this course will give you a foundation to communicate with physicians, nurses, and other health professionals. The course will focus on the concept of health, clinical terminology and body systems, medical diagnoses and conditions, and trends in several areas of healthcare. Students will be exposed to healthcare-related information and literature sources.

Fall Only.

**NURSING 240. Introduction to Professional Nursing Concepts. 2 Credits.**

This course introduces students to professional nursing concepts for delivery of person-centered, quality nursing care across health settings. Active learning is emphasized as students learn the nursing process and develop clinical judgment skills. Students are introduced to the role of the nurse as a member of the interprofessional healthcare team.

P: Admission to the Traditional Nursing Major

Spring.

**NURSING 250. Communicating and Managing Healthcare Information. 2 Credits.**

This course introduces students to interpersonal communication and use of information technologies in healthcare. These skills and technologies are critical to the development of therapeutic relationships with patients and the interprofessional healthcare team. Legal and ethical issues related to health information technology and health information exchanges will be examined.

P: Admission to the Traditional Nursing Major  
Spring.

**NURSING 255. Health Assessment for Nursing Practice. 3 Credits.**

This course focuses on the development of interviewing and health history taking skills, as well as, physical examination and psychosocial assessment skills for nursing practice. Students will practice and refine their assessment and psychomotor skills in a laboratory setting. Emphasis on effective communication and documentation skills critical for the provision of safe, effective nursing care are included.

P: Admission to the Traditional Nursing major  
Spring.

**NURSING 270. Basic & Intermediate Nursing Skills and Simulation. 2 Credits.**

This course introduces students to basic and intermediate nursing skills through demonstration and simulations. Student will learn and demonstrate competence in basic skills to provide high-quality patient-centered care.

P: Admission to the Traditional Nursing Major  
Spring.

**NURSING 280. Pathophysiology Concepts for Nursing Practice. 3 Credits.**

An introduction to the basic concepts of pathophysiology. Students examine the phenomena that produce alterations in human physiologic function and the resulting human response highlighting their importance to nursing practice.

P: Admission to the Traditional Nursing major  
Spring.

**NURSING 290. Foundations of Nursing Practice: Practicum/Experiential Learning. 2 Credits.**

In this clinical course, students demonstrate developing nursing knowledge and skills in the provision of safe person-centered, evidence-based care. Students will develop confidence with the application of skills and clinical judgment in a variety of settings.

P: Admission to the Traditional Nursing Major  
Spring.

**NURSING 300. Pharmacology for Nursing Practice. 3 Credits.**

An introduction to the basic concepts of pharmacology. Students will focus on the principles of pharmacology and administration, mechanisms of drug actions, contraindications, adverse and toxic effects, and lifespan considerations.

P: Admission to the Traditional Nursing Major; NURSING 240, NURSING 250, NURSING 255, NURSING 270, NURSING 280, NURSING 290  
Fall Only.

**NURSING 305. Healthy Aging and Chronic Care Management. 3 Credits.**

This course introduces students to nursing concepts for delivery of evidence-based nursing care of the older adult population. Nursing interventions designed to assist persons with chronic conditions to prevent or reduce common risk factors that contribute to decline in physical and mental function, impair quality of life, and contribute to excess disability are addressed. Students will identify population-focused opportunities to promote wellness for older adults, caregivers/families, and communities.

P: Admission to the Traditional Nursing Major; NURSING 240, NURSING 250, NURSING 255, NURSING 270, NURSING 280, NURSING 290  
Fall Only.

**NURSING 320. Health & Illness Concepts I. 3 Credits.**

This course focuses on health and illness concepts emphasizing delivery of evidence-based, person-centered nursing care across the health/illness continuum. Students apply the nursing process to plan care for individuals across care settings. Exemplars illustrate common health processes and/or alterations of homeostasis and protection, elimination, urinary, and regulatory systems.

P: Admission to the Traditional Nursing Major; NURSING 240, NURSING 250, NURSING 255, NURSING 270, NURSING 280, NURSING 290  
Fall Only.

**NURSING 331. Health & Illness Concepts I: Advanced Nursing Skills/Simulation. 1 Credit.**

This course introduces students to advanced nursing skills through demonstration and simulations. Evidence-based clinical reasoning is applied in the simulated setting. Students will demonstrate evolving nursing knowledge and competence in advanced skills to provide safe, high-quality patient-centered care.

P: Admission to the Traditional Nursing Major; NURSING 240, NURSING 250, NURSING 255, NURSING 270, NURSING 280, NURSING 290  
Fall Only.

**NURSING 332. Health & Illness Concepts I: Practicum. 2 Credits.**

In this clinical course, students demonstrate evolving nursing knowledge and skills in the provision of safe person-centered, evidence-based care. Students will apply the nursing process while demonstrating application of nursing concepts, skills and clinical judgment in a variety of settings.

P: Admission to the Traditional Nursing Major; NURSING 240, NURSING 250, NURSING 255, NURSING 270, NURSING 280, NURSING 290  
Fall Only.

**NURSING 340. Quality Improvement. 2 Credits.**

Students are introduced to quality improvement as a foundation for quality care and safety. Data to monitor the processes and outcomes of care are discussed. Methods to design and test changes to continuously improve the quality and safety of healthcare systems are explored.

P: Admission to the Traditional Nursing Major OR Community Health Education major; PSYCH 205 or equivalent introductory statistics course  
Fall Only.

**NURSING 350. Professional Development I: Nursing Theory, Image and Ethics. 3 Credits.**

This course examines the history of the nursing profession and nursing theories that contribute to the evolution of nursing's role as a member of the interprofessional healthcare team. The principles that form the cornerstone of biomedical ethical decision making will be applied to the care of persons in diverse settings. Team building and group process skills are further examined.

Spring.

**NURSING 360. Health & Illness Concepts II. 3 Credits.**

This course focuses on health and illness concepts emphasizing delivery of evidence-based, person-centered nursing care across the health/illness continuum. Students apply the nursing process to plan care for individuals across care settings. Exemplars illustrate common health processes and/or alterations of Oxygenation (Ventilation, Transport, Perfusion) and Movement and Coordination (Neurological system).

P: Admission to the Traditional Nursing Major; NURSING 300, NURSING 305, NURSING 320, NURSING 331, NURSING 332, NURSING 340  
Spring.

**NURSING 370. Evidence-Based Practice: Translating Research to Practice. 2 Credits.**

This course will expose students to research methods and designs and evidence-based practice concepts. Students will learn to critically appraise qualitative and quantitative research methods/designs and nursing literature to inform safe, quality, patient-centered care.

P: Admission to the Traditional Nursing Major; NURSING 300, NURSING 305, NURSING 320, NURSING 331, NURSING 332, NURSING 340; PSYCH 205 or equivalent introductory statistics course  
Spring.

**NURSING 380. Alterations in Health & Illness II: Practicum/Simulation. 2 Credits.**

In this clinical course, students will demonstrate advanced nursing knowledge and skills in the provision of safe person-centered, evidence-based care. Students will apply the nursing process while demonstrating confidence with the application of skills and clinical judgment in a variety of settings.

P: Admission to the Traditional Nursing Major; NURSING 300, NURSING 305, NURSING 320, NURSING 331, NURSING 332, NURSING 340  
Spring.

**NURSING 390. Leadership for Sustainable Healthcare: Health Disparities, Health Equity, & the Nursing Profession. 3 Credits.**

This course will explore issues of health equity and health disparities from several perspectives. Health disparities are one way we can measure our progress toward achieving health equity. Health equity can be defined as a focus on ensuring opportunities for everyone to attain their highest level of health. Students will examine the role that systems (i.e., health, education, public health, civil, etc.) play in contributing to and addressing these disparities. The Social Determinants of Health (e.g., socioeconomic status, race/ethnicity, gender, education, geography) will provide a framework on which to explore these vulnerabilities.

P: Admission to the Traditional Nursing Major; NURSING 240, NURSING 250, NURSING 280, NURSING 290  
Spring.

**NURSING 400. Nursing Care of the Childbearing Family. 3 Credits.**

This course prepares students to provide nursing care for the childbearing family. Students will recognize the needs of the childbearing family and demonstrate understanding of the nurse's role in providing efficient and cost-effective care. Additional topics include effective communication skills, basic bio/psycho/social/spiritual assessment of the childbearing family, pharmacology and commonly administered medications, principles of comfort and safety, resources and services, and the roles of healthcare team members as they relate to the childbearing family.

P: Admission to the Traditional Nursing Major; NURSING 360, NURSING 370, NURSING 380  
Fall Only.

**NURSING 407. Foundations of Professional Nursing Practice. 3 Credits.**

Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing/health care delivery are analyzed. Professional communication skills are enhanced.

P: Nursing Major and RN License  
Fall and Spring.

**NURSING 410. Behavioral Health Care Management. 3 Credits.**

Apply theories and implement evidence-based care for clients with psychiatric/mental health issues, including psychosocial concepts; cultural, ethical, and legal influences; and wellness of individuals and family groups. Development of professional role in psychiatric/mental health nursing.

P: Admission to the Traditional Nursing Major; NURSING 360, NURSING 370, NURSING 380  
Fall Only.

**NURSING 420. Nursing with Diverse Populations Practicum. 2 Credits.**

This clinical course complements the theory, models, and concepts learned in Nursing Care of the Childbearing Family (400) and Behavioral Health Nursing (410). Students will demonstrate advanced nursing knowledge and skills in the provision of safe person-centered, evidence-based care for individuals and families across the lifespan. Students will apply the nursing process while demonstrating confidence with the application of skills and clinical judgment in a variety of settings while working as a member of a multidisciplinary team.

P: Admission to the Traditional Nursing Major; NURSING 360, NURSING 370, NURSING 380

Fall Only.

**NURSING 430. Population/Community Health Nursing Theory. 3 Credits.**

This course introduces students to nursing concepts for delivery of evidence-based nursing care of individuals, families, populations, and communities to facilitate optimal health outcomes. Nursing interventions are designed at the individual, community, and system levels to prevent or reduce common risk factors.

P: Admission to the Traditional Nursing Major; NURSING 360, NURSING 370, NURSING 380

Fall Only.

**NURSING 440. Population/Community Health Nursing Practicum. 1 Credit.**

This clinical course complements the theory, models, and concepts learned in Community Health Nursing 430. The focus is on disease prevention and health promotion for individuals, families, and communities applying primary, secondary, and tertiary levels of prevention. Students are exposed to the population-based public health nursing interventions and to the nursing process as it relates to the practice of community health nursing, while working within a multidisciplinary team.

P: Admission to the Traditional Nursing Major; NURSING 360, NURSING 370, NURSING 380

Fall Only.

**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, PSYCH 205 or BUS ADM 220 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 450. Health & Illness Concepts III: Complex Care. 3 Credits.**

This course focuses on the care of patients experiencing complex, high acuity health conditions. Students synthesize previously acquired knowledge gained in the Health & Illness I and II courses as they examine high acuity patient to plan and provide care. Exemplars illustrating high acuity conditions in all body systems will be applied.

P: Admission to the Traditional Nursing Major; NURSING 400, NURSING 410, NURSING 420, NURSING 430, NURSING 440

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 461. Care Transitions Practicum Immersion. 4 Credits.**

This course is a clinical immersion experience designed to provide comprehensive learning opportunities that promote integration of baccalaureate learning outcomes to prepare the graduate for professional nursing practice. Students will demonstrate advanced nursing knowledge and skills under the direction of a nurse mentor in the provision of safe person-centered, evidence-based care. Students will apply concepts, knowledge, and skills necessary to bridge the gap between education and practice. The attributes of immersion education include demonstrating increasing levels of competency and independence, learner accountability, and self-assessment.

P: Admission to the Traditional Nursing Major; NURSING 400, NURSING 410, NURSING 420, NURSING 430, NURSING 440  
Spring.

**NURSING 470. Professional Development: Navigating the Nursing Profession. 2 Credits.**

This course examines the focuses on professional role socialization and integrates the Nurse of the Future Competency Model. Students will build their skills in resume writing, job interviewing, and career development. Faculty will assist students to develop individualized NCLEX-RN preparation strategies based on a review of the HESI Comprehensive Predictor Examination.

P: Admission to the Traditional Nursing Major; NURSING 400, NURSING 410, NURSING 420, NURSING 430, NURSING 440  
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 480. Leadership: Nursing in an Evolving Healthcare System. 3 Credits.**

This course introduces students to leadership skills for safe effective practice as a new graduate nurse; issues affecting nursing practice; leadership attributes, e.g., creating effective teams, confident interaction with others, resolving conflict, managing resources, leadership for assuring patient safety and quality care.

P: Admission to the Traditional Nursing Major; NURSING 400, NURSING 410, NURSING 420, NURSING 430, NURSING 440  
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. 3 Credits.**

Course topics vary. Typical topics include Nursing Care of Older Adults, Pharmacology, Pathophysiology, Women's Health Care, Informatics, School Health. Repeatable for credit if topics vary; may be taken 4 times for a total of 12 earned credits.

P: major in Nursing.  
Fall and Spring.

**NURSING 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.  
Fall and Spring.

**NURSING 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Nutritional Sciences (NUT SCI)

### Courses

**NUT SCI 32TUL. UPPER LVL TRNSFR SUSP HUM ETP. 1 Credit.**

**NUT SCI 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.  
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 and Spring.



**NUT SCI 202. Ethnic Influences on Nutrition. 3 Credits.**

This course examines the ways in which ethnicity influences food habits and can affect nutrition and health status.

Fall and Spring.

**NUT SCI 208. Art and Science of Healthy Food Preparation. 3 Credits.**

Students will learn principles, practices and techniques of healthy food preparation. Emphasis will be on learning to combine textures, spices, and ingredients to optimize flavor, aesthetic appeal, and nutritional value of prepared foods. Additionally, students will learn to prepare foods appropriate to health maintenance and disease prevention. The course, taught in the food lab, will incorporate both lecture and hands-on (lab) components.

Fall Only.

**NUT SCI 212. Science of Food Preparation. 4 Credits.**

Studies the chemical, physical and microbiological characteristics of food and the manipulation of these factors to meet quality standards. Laboratory activities demonstrate principles of food science as applied to food preparation, sanitation and safety.

P: Chem 108 with at least a C grade or Chem 211 with at least a C grade.

Fall Only.

**NUT SCI 242. Food and Nutritional Health. 3 Credits.**

Food and Nutritional Health emphasizes and evaluates the practical personal application of nutritional concepts in promoting 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 270. Sport and Performance Nutrition. 3 Credits.**

Nutrition is essential to sustain and enhance fitness, performance, and health. This course will analyze nutritional and metabolic factors that optimize peak performance. Scientific methods will be put into practice to develop individualized plans to manage nutrition needs. Nutrition periodization practices will be explored in relation to exercise, sport, and human performance to promote energy, recovery, and health.

Fall Only.

**NUT SCI 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**NUT SCI 300. Human Nutrition. 3 Credits.**

Examines the physiologic and metabolic roles of nutrients and their food sources. Analysis of the nutrient content of diets and requirements for maintenance of health and prevention of chronic diseases.

P: Biology 201/202 with at least a C grade; and Chem 108 with at least a C grade or Chem 212 with at least a C grade.

Fall and Spring.

**NUT SCI 312. Quantity Food Production and Service. 4 Credits.**

Principles of quantity food preparation, service, and budgeting in food service systems. Projects and laboratories afford pertinent practical experiences.

P: Nut Sci 212 with at least a C grade.

Spring.

**NUT SCI 327. Nutritional Biochemistry. 4 Credits.**

A lecture/laboratory course of applied organic chemistry and biochemistry with an emphasis on human nutrition and disease. Examines structure/function relationships and reactions of molecules, metabolic regulation and the roles of nutrients in normal and abnormal metabolism.

P: Biology 201/202 with at least a C grade; and both Chem 300 and 301 with at least a C grade or both Chem 303 and 305 with at least a C grade.

Fall Only.

**NUT SCI 350. Life Cycle Nutrition. 3 Credits.**

Covers nutrient needs and physiologic changes relevant to stages of the life cycle. Also examines psychosocial and environmental conditions that impact on nutrition status in each stage.

P: Nut Sci 300 with at least a C grade.

Spring.

**NUT SCI 402. Management in Dietetic Practice. 3 Credits.**

Examines management roles and functions in dietetic practice with an emphasis on a system's approach to management. Focuses on leadership skills and tools needed for operational change and quality improvement.

P: Nut Sci 312 or conc enroll.

Spring.

**NUT SCI 421. Community and Public Health Nutrition. 3 Credits.**

Application and integration of the principles of nutrition concepts and their delivery in the context of social, economic, and cultural environments in various scales of community settings. At the graduate level, emphasis will be placed on agency needs assessment, management and coordination of public health or nutrition programming, and project outcome assessment. At the undergraduate level, a major focus will be on the development and implementation of a nutrition intervention program for a selected target group with measurable goals and objectives.

P: Junior standing, Declared major in Human Biology with a Nutritional Science emphasis or an Applied Public Health emphasis, and NUT SCI 300 with at least a C grade; Concurrent enrollment in Nut Sci 423

Fall Only.

**NUT SCI 423. Community and Public Health Nutrition - Lab. 1 Credit.**

Application and integration of the principles of nutrition concepts and their delivery in the context of social, economic, and cultural environments in various scales of community settings. At the undergraduate level, a major focus will be on the development and implementation of a nutrition intervention program for a selected target group with measurable goals and objectives. In the lab component of this course, students will engage in hands-on experiences that serve as a bridge between theoretical knowledge and practical application, fostering the development of essential professional competencies for effective nutrition program management.

Fall Only.

**NUT SCI 427. Nutrigenomics and Advanced Nutrient Metabolism. 3 Credits.**

This course examines several biochemical pathways associated with diet and lifestyle related diseases, with emphasis on the role of nutrition in modulating these pathways and disease risk. Nutrigenomics, oxidation/antioxidants, eicosanoid and inflammation mechanisms, and diet and cancer are covered.

P: NUT SCI 300 with at least a C grade; REC: NUT SCI 327.

Spring.

**NUT SCI 470. Advanced Nutrition for Sport and Fitness. 3 Credits.**

This course will address the role of nutrition in enhancing exercise performance. Topics include the principles of energy metabolism during aerobic and anaerobic exercise; biochemical roles of macronutrients, vitamins, and minerals; endocrine and immunological alterations with exercise and diet; fluid balance; sports supplements; and planning diets for athletes.

P: NUT SCI 300 with a grade of C or better; and HUM BIOL 240/241 with a grade of C or better, or HUM BIOL 221/222 with a grade of C or better.

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: An Integrative and Functional Approach. 3 Credits.**

Theory, principles and application of communication and counseling as applied to behavior changes; application of nutrition assessment and the nutrition care plan process. Health care systems, managed care, and reimbursement.

P: PSYCH 102 or PSYCH 203 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: An Integrative and Functional Approach. 3 Credits.**

Principles and applications of nutrition therapy in the prevention and treatment of common and complex diseases.

P: NUT SCI 485 with a least a C grade

Spring.

**NUT SCI 487. Nutritional Science Seminar. 1 Credit.**

Exploration of the role of the nutrition professional in food and nutrition-related public policy; application of the code of ethics for the dietetics profession.

P: Senior status and enrollment in Nut Sci/Dietetics emphasis

Fall Only.

**NUT SCI 488. Medical Nutrition Therapy II: An Integrative and Functional Approach - Discussion. 1 Credit.**

Practicum learning opportunities to apply counseling and assessment skills in integrative medical nutrition therapy.

P: NUT SCI 485 with a least a C grade, concurrent enrollment in NUT SCI 486.

Spring.

**NUT SCI 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**NUT SCI 496. Project/Research Assistantship. 1-6 Credits.**

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

P: Chem 207 and approval by faculty mentor.

**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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**NUT SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**NUT SCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Organizational Leadership (ORG LEAD)

### Courses

**ORG LEAD 198. Introduction to Leadership. 3 Credits.**

This course is designed to guide learners in exploring their perceptions of leadership, reflecting on their beliefs about leadership, applying the basics of effective written communication, articulating the value of critical, creative, and interdisciplinary thinking, and demonstrating skill in interdisciplinary problem solving.

**ORG LEAD 301. Rising Leadership. 3 Credits.**

This course is designed to help learners recognize, assess, and address policies, procedures, and practices related to gender in the workplace, and to guide leaders, and aspiring leaders, in creating organizations in which all employees are encouraged to reach their full potential.

**ORG LEAD 302. Gender & Equity in Organizational Leadership. 3 Credits.**

This course prepares students to think critically about the ways gender and leadership intertwine in organizations in the form of systems of power, privilege, and oppression. Through exploration of important questions and relevant issues of gender and equity, this course prepares the student to develop an understanding of potential gender barriers in organizations while gaining critical self-awareness around one's own identity and leadership practices. Students will assess the role of effective leadership styles that promote inclusivity in organizations.

**ORG LEAD 346. Organizational Research and Statistics. 3 Credits.**

The focus of this course is on workplace research. Students will learn to identify problems and questions in need of solutions, to collect data that may be relevant to the solution, to use the tools of statistics to analyze and interpret data and to draw conclusions warranted by data analysis.

**ORG LEAD 347. Budgeting and Financial Management. 3 Credits.**

This course will examine and address the intersection of budgeting and financial management across all three organizational sectors - public, private, and nonprofit, highlighting similarities and differences. It will delve into techniques, strategies, theories, and applications of budgeting and financial management, with an emphasis on real-world applications in organizations of all sizes and types.

**ORG LEAD 348. Organizational Behavior Across Sectors. 3 Credits.**

The course is designed to develop student's skills in managing individuals and groups in business, government, and nonprofit settings. It focuses on the knowledge, self-awareness, and skills appropriate for leaders in organizations such as communication, collective decision-making, conflict negotiation and resolution, motivation, and politics through the lens of the individual.

Fall and Spring.

**ORG LEAD 400. Organizational Leadership Capstone. 3 Credits.**

This capstone course helps students synthesize learning in their major, their area(s) of emphasis and/or minor(s), and their general education courses, and provides a platform for discussion and reflection on the meaning and practice of leadership and engaged citizenship.

P: ORG LEAD major and senior status.

**ORG LEAD 420. Mindful Leadership. 3 Credits.**

In this course, students will explore what it means to be a mindful leader and how leaders are most effective when they are fully aware of their thoughts and actions, and their impact on people and organizations.

Spring.

**ORG LEAD 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 with the approval of the Chair/Coordinator of the Organizational Leadership program.

**ORG LEAD 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**ORG LEAD 497. Internship. 1-6 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. Must obtain the approval of the Organizational Leadership program chair/coordinator or department chairperson. Course is repeatable for credit; may be taken 3 times or for a total of 6 credits.

**ORG LEAD 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.

# 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.

Fall and Spring.

**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 Only.

**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 112. Scientific Reasoning, Risk, and Probability. 3 Credits.**

Science is a battery of special methods and procedures that has proven to be extraordinarily successful in producing knowledge and understanding of the natural world. Scientific reasoning is the ability to gain this knowledge on the basis of systematic observation, evidence, and hypotheses. This course introduces the student to some of the basic components of scientific methodology, procedures, and reasoning. Students will explore a range of topics: truth, facts, objectivity of observation, the nature of science and its differences from non-science and pseudo-science, the structure of scientific theories, the nature of scientific explanation, principles of scientific inference, limitations of science, hypothesis confirmation and rejection, Mill's methods of experimental inquiry, and probability.

Spring.

**PHILOS 113. AI, Algorithms, and Truth. 3 Credits.**

This course examines how we know what we know in an age of information overload, exploring both ancient philosophical questions and contemporary challenges. Students will learn how social media, algorithms, and artificial intelligence have transformed our relationship with truth, while developing practical skills for evaluating information and conducting research. Through studying philosophical ideas about knowledge alongside modern theories of information literacy, students will learn systematic approaches to finding, evaluating, and using information effectively. The course features a scaffolded annotated bibliography project that guides students through researching contemporary information challenges such as: How do we evaluate the accuracy of artificial intelligence? What impact do algorithms have on our ability to acquire truth? How has social media transformed how we collectively determine what is true? From developing search strategies to proper citation, students will combine philosophical frameworks with hands-on research skills to develop both the theoretical understanding and practical tools needed to navigate today's complex information landscape and contribute thoughtfully to academic discourse.

Fall Only.

**PHILOS 198. First Year Seminar. 3 Credits.**

First Year Seminar

Reserved for New Incoming Freshman

Fall Only.

**PHILOS 208. Biomedical Ethics. 3 Credits.**

This course introduces students to some of the major issues of biomedical ethics. Biomedical ethics refers to the study of ethical issues that arise within the fields of medicine, biology, and healthcare, particularly regarding the application of new technologies in research, treatments, and prevention, and the possible impact of such practices on societal norms. Among the issues of biomedical ethics are the morality of: genetic engineering, organ donation, medical resource allocation, cloning, stem cell research, privacy and data security, the environmental impact of technologies and procedures, and whistleblowing on defective medications, incompetent healthcare professionals, and dereliction of duty. Students will become acquainted with the different moral frameworks which guide decision-making processes, and examine major biomedical problems in today's society. Ultimately, students will develop and defend their own views on controversial topics through discussion and writing.

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.

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 218. Power of Philosophy: Ancient Greece to Renaissance. 3 Credits.**

The primary objective of this course is to introduce the student to the writings and arguments of major philosophers from Ancient Greece through the Renaissance. Accordingly, the course is both philosophical and historical. Students will examine the major components of the philosophical theories of many of the most important and influential thinkers of Western civilization. Particular emphasis will be placed on the reasoning by which they arrived at their theories. We will read, interpret, and criticize their arguments, both in discussions and in writing. Special attention will be paid to their views about the meaning of life, justice, law, pleasure, happiness, virtue, knowledge, and God. Students will examine the historical development and growth of philosophical thought from Ancient Greece through the Renaissance and situate important philosophical ideas in their historical contexts.

Fall Only.

**PHILOS 220. Environmental Ethics. 3 Credits.**

This course explores the philosophical foundations of environmental sustainability, focusing on the ethical principles that guide our relationship with the natural world. Students will engage with diverse perspectives, including Traditional Ecological Knowledge, scientific principles, and Western philosophical traditions, to further their understanding of environmental ethics. This course will examine the ethical principles underlying environmental sustainability, encouraging students to identify, articulate, and defend their own ethical positions on environmental issues. By integrating scientific principles of environmental sustainability with Traditional Ecological Knowledge, the course fosters an interdisciplinary approach to understanding the natural world and our place within it.

Fall Even.

**PHILOS 227. Business Ethics. 3 Credits.**

Business ethics is the descriptive and normative study of human conduct and organizational decision-making in business practices. It examines descriptive and normative ethical principles that govern and should govern the behaviors and decision-making of individuals and organizations in business. Students will a) explore the ethical challenges and responsibilities that individuals and organizations face in the complex world of business in making business decisions, b) study normative ethical principles that should govern human behaviors and decision-making in business, c) gain a deeper understanding of how business decisions impact not just corporate stakeholders, but also local, national, and global communities, and d) develop the capacity for ethical and responsible business decision-making through reflecting on the importance of ethical leadership, empathetic communication, and social responsibility in modern business practices.

Fall and Spring.

**PHILOS 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**PHILOS 301. Ethical Theory. 3 Credits.**

This course aims at acquainting students with a number of major ethical theories in the Western philosophical tradition. Students will read classical and contemporary writings on a number of major ethical topics such as pleasure, egoism, relativism, happiness, moral responsibility, utilitarianism, deontological ethics, and virtue ethics. In addition to the reading, students will focus on reconstructing and critically reflecting the arguments on the issues on these topics in class discussions and writings.

P: none; REC: jr st and one philos cse.

Spring Even.

**PHILOS 308. Philosophy and the Sciences. 3 Credits.**

Science is often thought to be the ultimate form of objectivity and rational inquiry. But what is 'science'? Is there one scientific method? What reasons do we have to regard it as more truth-conducive than other routes to knowledge? Is there such a thing as a truly unbiased experiment? Do we mean to say that our scientific theories are true? What kind of justification would be required for such claims? And what about the many strange entities of science? Do electrons exist, or are they just useful fictions to fill holes in scientific theories? Are laws of nature real entities?

P: none; REC: Philos 214.

Fall Even.

**PHILOS 309. Religion and Medieval Philosophy. 3 Credits.**

This course examines main themes in medieval philosophy. After examining the relationship between faith and reason, students will explore the nature of the soul, knowledge, the afterlife, God's existence, the ontology of universals and other important philosophical topics. Readings will include selections from the work of Christian, Islamic and Jewish thinkers like Anselm, Thomas Aquinas, Bonaventure, Duns Scotus, William of Ockham, Maimonides, Averroes and Avicenna.

P: none; REC: Philos 213 and 214.

Spring Odd.

**PHILOS 323. Modern Philosophy. 3 Credits.**

Course topics vary. In one iteration, this course will work its way through seminal thinkers in nineteenth century philosophy including (though not limited to) Hegel, Marx and Nietzsche. Our aim will be to both connect these thinkers to earlier ideas and trends in Philosophy and to see how they extend such ideas in radically different ways. In another iteration, this course will delve into a somewhat later historical movement in Philosophy - the existentialists. We will begin with the early influence of Russian authors before moving through later thinkers such as Heidegger, Camus and Sartre. The course will include literary and philosophical readings. Course is repeatable for credit if topics differ; may be taken 2 times for a total of 6 credits.

P: none; REC: Philos 213 and 214.

Fall Odd.



**PHILOS 324. Contemporary Philosophy. 3 Credits.**

Course topics vary, but may include Philosophy of Mind and/or Emotion, Experimental Philosophy, Phenomenology, Contemporary French Philosophy or other recent movements afoot in Europe and America, representing both Analytic and Continental traditions in Philosophy. Course is repeatable if topics differ; may be taken 2 times for a total of 6 credits.

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. Course is repeatable for credit if topics differ; may be taken 5 times for a total of 15 credits.

P: upper level cse in Philos.

Fall Even.

**PHILOS 420. Metaphysics. 3 Credits.**

Metaphysics is the study of Being and the various forms it takes in this world and possibly beyond. It comprises some of the oldest and most difficult questions in Philosophy. In this class we will investigate some of its major historical and contemporary topics, which may include the status of Platonic Forms, the reality and identity of ordinary particulars, what kind of thing causality is, what makes states of affairs possible or necessary, what are space and time, and whether any progress can be made in such endeavors (the question of anti-realism). In a special iteration of this course we look specifically and in great depth at the question of Free Will. We rely entirely on primary-source readings to explore the challenge of free will, the plausibility of compatibilism, and tenability of hard determinism. Along the way, we will discuss how the free will debate informs our thinking about God's foreknowledge, criminal punishment, love and friendship, possible worlds, and even time-travel. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**PHILOS 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa  $\geq$  2.50; or jr or sr st with cum gpa  $\geq$  2.00.

Fall and Spring.

**PHILOS 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Physical Education (PHY ED)

### Courses

**PHY ED 101. Swimming I. 1 Credit.**

Fundamental swimming, basic water survival skills, and safety for students with minimum to no swimming ability.  
Spring.

**PHY ED 117. Cardiopulmonary Resuscitation. 1 Credit.**

Causes and effects of respiratory, cardiac and circulatory insufficiency and arrests are explored as well as appropriate emergency care responses. Students develop resuscitation skills on adult, child and infant mannequins. American Red Cross or American Heart Association certification available.  
Fall Only.

**PHY ED 118. Relaxation Thru Yoga. 1 Credit.**

This course is designed to allow students to participate in yoga. Various yoga routines are developed to emphasize strength, flexibility, balance, coordination, and relaxation.  
Fall Only.

**PHY ED 121. Personal Conditioning. 1 Credit.**

Principles of exercise physiology as they relate to participation in calisthenics and exercise with light apparatus. Develops conditioning programs appropriate for life-long fitness.  
Spring.

## Physics (PHYSICS)

### Courses

**PHYSICS 103. Fundamentals of Physics I. 4 Credits.**

A non-calculus physics sequence covering fundamentals of mechanics, Newton's laws, momentum, energy, power, fluid statics and dynamics, vibrations, waves, sound, heat transfer, and the kinetic theory of gases. Applications to the areas of biology, chemistry, earth science, and technology.  
P: MATH 104 with at least a C grade or WPT-MFND score  $\geq$  465 and WPT-AALG score  $\geq$  525 and WPT-TAG score  $\geq$  525 or ACT Math score  $\geq$  26 or SAT Math score  $\geq$  630, PHYSICS 203 or concurrent enrollment.  
Fall and Spring.

**PHYSICS 104. Fundamentals of Physics II. 4 Credits.**

A non-calculus physics sequence covering fundamentals of thermodynamics, electric forces and fields, DC and AC circuits, magnetism, electromagnetic waves, optics, and radioactivity. Applications to the areas of biology, chemistry, earth science, and technology.  
P: PHYSICS 103 with at least a C grade or PHYSICS 201 with at least a C grade, PHYSICS 203 with at least a C grade, PHYSICS 204 or concurrent enrollment.  
Fall and Spring.

**PHYSICS 141. Astronomy. 3 Credits.**

A study of the solar system, stars, galaxies and universe. High school algebra and geometry competency is highly recommended. Full credit will not be granted for both PHYSICS 141, PHYSICS 143, or both PHYSICS 141 and PHYSICS 144.  
Fall and Spring.

**PHYSICS 142. Observational Astronomy. 1 Credit.**

Observation of solar system, galactic and extra-galactic objects, and introduction to basic observational techniques in astronomy. Includes telescopic and unaided eye observation, positional astronomy, astro-photography, optic spectroscopy, interpretation of astronomical data, and astronomy laboratory exercises. High school algebra and geometry competency is highly recommended.  
Fall and Spring.



**PHYSICS 143. The Solar System. 3 Credits.**

Contemporary understanding of the Solar System; the sky and celestial motions; ancient astronomy; the Copernican revolution; light, gravity, orbits, and astronomical instruments; formation of the solar system; sun, planets and moons; asteroids, comets, meteors and meteorites; and the origin of life. High school algebra and geometry competency is highly recommended. Full credit will not be granted for both PHYSICS 141 and PHYSICS 143.  
Fall and Spring.

**PHYSICS 144. Stars, Galaxies, and the Universe. 3 Credits.**

Contemporary understanding of stellar systems: historical development; light, gravity, atoms and nuclei; astronomical instruments; properties and life cycles of the Sun and stars; black holes; the Milky Way and other galaxies; cosmology. High school algebra and geometry competency is highly recommended.  
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.**

First Year Seminar, topics vary.  
Reserved for New Incoming Freshman.

**PHYSICS 201. Principles of Physics I. 4 Credits.**

A calculus physics sequence for students of science and engineering covering fundamentals of mechanics, Newton's laws, momentum, energy, power, fluid statics and dynamics, vibrations, waves, sound, heat transfer, and the kinetic theory of gases.  
P: MATH 202 with at least a C grade, or concurrent enrollment in MATH 202 with instructor consent, PHYSICS 203 or concurrent enrollment.  
Fall and Spring.

**PHYSICS 202. Principles of Physics II. 4 Credits.**

A calculus physics sequence for students of science and engineering covering fundamentals of thermodynamics, electric forces and fields, DC and AC circuits, magnetism, electromagnetic waves, optics, and radioactivity.  
P: Either PHYSICS 201 and PHYSICS 203 with at least a C grade in both or ENGR 214 with at least a C grade, PHYSICS 204 or concurrent enrollment

Fall and Spring.

**PHYSICS 203. Introductory Physics Lab I. 1 Credit.**

Laboratory course to accompany PHYSICS 103 or PHYSICS 201.  
Fall and Spring.

**PHYSICS 204. Introductory Physics Lab II. 1 Credit.**

Laboratory course to accompany PHYSICS 104 or PHYSICS 202.  
Fall and 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 quantum mechanics) then applies them to the large scale field of cosmology.  
P: MATH 202  
Spring Even.

**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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.  
Fall and Spring.

**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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**PHYSICS 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

## Political Science (POL SCI)

### Courses

**POL SCI 100. Global Politics and Society. 3 Credits.**

The course explores political power and human connections on a global scale. The course covers concepts and ideas on the interaction of governments, organizations, and peoples across regions, cultures, and communities. The course helps students develop a global outlook on their future prospects as citizens and professionals in a globalized world.

Fall and Spring.

**POL SCI 101. American Government and Politics. 3 Credits.**

The institutions and political processes of American National government and the nature of political analysis; the Constitution, ideological and cultural bases of American politics; the role of political parties, elections and interest groups; policy-making processes in the Congress, the presidency and courts.

Fall and Spring.

**POL SCI 102. Introduction to Politics. 3 Credits.**

What is the ideal form of government and society? A survey and analysis of ideas related to citizenship in the community, nation and world, with emphasis on competing political values/ideologies and civic engagement.

**POL SCI 198. First Year Seminar. 3 Credits.**

Reserved for New Incoming Freshman.

**POL SCI 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**POL SCI 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: POL SCI 101 or PUB ADM 202 or SOCIOL 100

Fall Only.

**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 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.

Spring.

**POL SCI 322. Politics of Crime and Punishment. 3 Credits.**

Focuses on the competing goals of public policy in criminal justice, from public order, due process, efficiency, rights and liberties. Analyzes the interplay of key actors including police, courts and prisons in policy-making and implementation. Includes the role of media and myth.

**POL SCI 333. Political Science Research Lab. 3 Credits.**

Students will work with a small group of their peers to develop a research project on a contemporary topic related to politics. Over the course of the semester, students will develop a research question, conduct a literature review, gather and analyze data, and write a research paper. Along the way, students will read journal articles, books, and book chapters that will help them refresh their memories on research methods and statistics. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: POL SCI 101 and PSYCH 205. REC: COMM SCI 301 and POL SCI 318

Fall Odd.

**POL SCI 340. Political Theory. 3 Credits.**

The foundations of Western political theory from the Greek polis to the 20th century. Discusses and analyzes leading political theorists in their historical contexts and in terms of their basic ideas and concepts. Attaches the study of politics to the history of Western political thought and practice.

P: Pol Sci 100 or 101.

Fall Only.

**POL SCI 349. American Political Thought. 3 Credits.**

The history and development of American political thought, with attention to the thinkers and themes influential to controversies, ideologies, and institutions in American politics.

P: POL SCI 101 OR HISTORY 205 OR HISTORY 206 OR DJS 101

Spring.

**POL SCI 351. Comparative Politics. 3 Credits.**

The course examines fundamental concepts in the study of the processes and outcomes of politics in a variety of country settings. It illustrates the rich diversity of political life, shows available institutional alternatives, explains differences in political regimes and outcomes, and communicates the importance of global political and economic changes.

P: POL SCI 100 or POL SCI 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 a variety of actors in international politics, and explores changes in the international system, including issues of global conflict, human rights, international organizations, and environmental security.

P: POL SCI 100 or POL SCI 101.

**POL SCI 361. Immigration and Immigration Policy. 3 Credits.**

The course explores the dynamics and evolution of U.S. immigration policies with attention to issues of restriction, integration, citizenship, and belonging. Social and cultural dimensions of immigration, divisions of power in immigration policy making and enforcement, and policies towards refugees and asylum-seekers are included.

P: jr st.

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 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 PUB ADM 202 or PUB ADM 215

Fall Odd.

**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 Even.

**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 PUB ADM 215

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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

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. Course is repeatable for credit.

Fall and Spring.

**POL SCI 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**POL SCI 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Psychology (PSYCH)

### Courses

**PSYCH 97. Math Preparation for Social Science Statistics. 1 Credit.**

This course will cover the math preparation you will need to be successful in PSYCH 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 PSYCH 205

Fall and Spring.

**PSYCH 102. Introduction to Psychology. 3 Credits.**

Understanding of behavior from psychophysiological, cognitive, social and clinical perspectives; important issues, methods and findings in the study of psychological processes.

Fall and Spring.

**PSYCH 103. Applied Learning. 3 Credits.**

This course is all about empowering students to take control of their own learning journey. This course teaches the strategies and techniques needed to learn new things effectively, efficiently, and independently. Students will explore different learning theories, cognitive techniques, and the role of curiosity in driving continuous growth. The course culminates in a self-directed learning project, where students will apply what they've learned to master a new skill or area of knowledge on their own.

Fall Only.

**PSYCH 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman

Fall Only.

**PSYCH 203. Introduction to Lifespan Development. 3 Credits.**

Human development from conception through death: physical development, social and emotional development, and psychological development. Topics may also include personality development, the development of language, intellectual development and creativity, and the process of human learning.

Fall and Spring.

**PSYCH 204. Great Myths of the Mind. 3 Credits.**

This course develops students' information literacy skills by teaching them to debunk common psychology myths. Students will learn to conduct thorough searches, assess source credibility, and synthesize large amounts of information while engaging with both peer-reviewed research and popular media. Emphasis will be placed on critical thinking, academic integrity, and recognizing bias in various forms of information.

Fall Only.

**PSYCH 205. Social Science Statistics. 4 Credits.**

An introduction to descriptive and inferential statistics using social science examples. Data analysis and interpretation including computerized statistical software in a lab setting.

P: PSYCH 97; or Concurrent or prior enrollment in PSYCH 97; or MATH 102; or MATH 094; or WPT:MFND test score  $\geq 416$ ; or Post-baccalaureate status

Fall and Spring.

**PSYCH 225. Career Planning. 1 Credit.**

Provides students with the knowledge and resources necessary for effective career decision-making in college. The class sessions and assignments focus on self-assessment, learning and applying career development theories, exploring major and career options, and establishing goals for career/life planning.

Fall and Spring.

**PSYCH 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**PSYCH 300. Research Methods in Psychology. 4 Credits.**

Critical understandings of empirical research including research ethics, design, data collection, analysis, and communication. Completion of individual and group laboratory projects.

P: PSYCH 102; Previous completion and/or concurrent enrollment of PSYCH 205 or MATH 260 or BUSAN 220

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.

P: PSYCH 102 AND HUM BIOL 102 or HUM BIOL 240 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 HUM BIOL 240 or BIOLOGY 201 & BIOLOGY 202

Fall and Spring.

**PSYCH 315. Social Cognitive Affective Neuroscience. 3 Credits.**

This course illustrates the biological bases of behavior with emphasis placed on the basics of neurobiology and the application of neuroscience to our understanding of social, cognitive, and affective processes such as self-control, decision-making, memory, language, and attention. Neuroscience seeks to understand the design and operating principles of the mind, as instantiated in the brain and body.

P: PSYCH 102

Fall and Spring.

**PSYCH 321. Sport and Performance Psychology. 3 Credits.**

This course is intended to provide a general overview of sport and performance psychology with lectures, discussions, and interactive activities. Students will learn basic sport and performance psychology terms, concepts, models, and theories, as well as understand how they affect sport and other (e.g., music) performances.

P: PSYCH 102.

**PSYCH 325. Forensic Psychology. 3 Credits.**

An overview of scientific theory and research in the intersection of psychology with law and criminal justice. The course will examine the psychological and behavioral issues that impact both the criminal and civil justice systems, and conversely, how law and justice affect human behavior. Topics to be covered include police psychology, eyewitness testimony, competency/insanity, jury selection and decision-making, corrections and re-entry, victimology and victim services, child custody, and juvenile delinquency.

P: PSYCH 102

Fall and 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

Fall and Spring.

**PSYCH 331. Infancy and Early Childhood Development. 3 Credits.**

Current theories, methods of study and research in the study of human development from conception through the early childhood years, and the interrelationships among biological, social, and psychological aspects of development.

P: PSYCH 203

Fall and Spring.

**PSYCH 332. Middle Childhood and Adolescent Development. 3 Credits.**

This course examines salient issues concerning adolescent development. Socio-cultural, psychological and physical growth factors in the developmental process of the adolescent are examined.

P: PSYCH 203

Fall and Spring.

**PSYCH 343. Adult Development and Aging. 3 Credits.**

Theory and empirical research concerning developmental processes across the adult life span; psychological, cultural and biological factors which influence development in young adulthood, middle adulthood and old age.

P: PSYCH 203

Fall and Spring.

**PSYCH 344. Dying, Death, and Loss. 3 Credits.**

Death, dying, and loss from a multidisciplinary diversity perspective; the development of death concepts across the life span, end of life issues, different approaches to understanding grief, and cross-cultural death practices and their relation to the American death system.

P: PSYCH 203; REC: PSYCH 300 or PSYCH 302.

**PSYCH 350. Cultural Psychology. 3 Credits.**

A cross-cultural examination of core psychological processes and areas of study, such as cognition, emotion, development, and personality.

P: PSYCH 102

Fall and Spring.

**PSYCH 380. Conservation Psychology. 3 Credits.**

The psychology behind understanding and motivating humans to practice sustainable behaviors.

**PSYCH 401. Psychology of Women and Gender. 3 Credits.**

The psychology of women examines traditional and feminist approaches to women in psychological theory and research as frameworks for understanding women's development and experience in family, academic, work, and relationship roles. The interacting influences of biology, socialization, and cultural context are considered. Identity development for males and females throughout the life span, as well as the development and variation of sexual orientation will be discussed.

P: PSYCH 102 or PSYCH 203. REC: PSYCH 203 and PSYCH 300 or PSYCH 302

Fall and Spring.

**PSYCH 415. Industrial and Organizational Psychology. 3 Credits.**

Examines the human side of organizations from a scientific framework. Topics include job analysis, performance appraisal, employee selection, training, motivation, job satisfaction, work teams, leadership, and organization development.

P: PSYCH 102.

**PSYCH 417. Psychology of Cognitive Processes. 3 Credits.**

Contemporary theory and research on thinking processes; how people understand and interpret events around them; attention, recognition, thinking, memory, language, imagery and problem-solving.

P: PSYCH 102

Fall and Spring.

**PSYCH 424. Psychology of Emotion. 3 Credits.**

This is an advanced undergraduate psychology course designed to expose students to the science of emotion. Students will study the many ways in which biological, cultural, cognitive, and other factors can contribute to our emotional experiences.

P: PSYCH 102 and PSYCH 300 or PSYCH 302.

**PSYCH 429. Theories of Personality. 3 Credits.**

Theories and research in psychology of personality and how biological, emotional, behavioral, social, and cognitive factors affect and are affected by personality.

P: Psych 102 AND Psych 203

Fall and Spring.

**PSYCH 432. Wrongful Convictions. 3 Credits.**

Students will examine how human psychology can contribute to the conviction of innocent suspects. Topics such as junk science, misconduct, eyewitness memory, false confessions, and jail house snitches will be discussed. Students investigate various elements of psychology, with an emphasis on cognitive, social, and developmental psychology as they apply to the law. Students learn to read and analyze empirical research, specifically journal articles, to support the concepts discussed in class.

Spring.

**PSYCH 435. Psychopathology. 3 Credits.**

This is an advanced undergraduate psychology course designed to describe and critique the primary models for defining and evaluating normal and abnormal human behavior in American society. Students will learn about the many ways in which biological, emotional, behavioral, cultural, and cognitive factors can contribute to distress, impairment, and treatment, both to individuals and those around them.

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

Fall and Spring.

**PSYCH 440. Multicultural Counseling and Mental Health. 3 Credits.**

This course involves an exploration of cultural groups, beliefs, and practices within the U.S. and focuses on ways that culture, race, ethnicity, and associated concepts, such as oppression and privilege, influence definitions and treatments of mental illness.

P: Psych 102 and sophomore status.

**PSYCH 443. Spirituality and Development. 3 Credits.**

This course explores how spirituality, religion, and faith reflect and represent important aspects of development across the lifespan. Important questions to address include the following: How may 'spirituality' be defined? How does religion influence character development? Discussion of theoretical, research, and practice applications.

P: Psych 203.

**PSYCH 450. Health Psychology. 3 Credits.**

This course examines how health and illness are studied from a psychological perspective. Topics include coping with stress, leading a healthy lifestyle, factors influencing smoking, alcohol use, and exercise, the patient-practitioner interaction, and chronic and terminal illness.

P: PSYCH 102.

**PSYCH 471. Field Experience I. 2 Credits.**

The course will focus on preparation to work with grieving children/adolescents. Students will learn about grief camps for children and help plan activities for Camp Lloyd. Students will prepare for working with the children and each other during Camp Lloyd week.

P: None; REC: PSYCH 344

Spring.

**PSYCH 472. Field Experience II. 1 Credit.**

Students will gain hands-on experience working with grieving children at Camp Lloyd. Students will prepare for Camp, serve as a Camp Lloyd Buddy, and reflect on their experiences after camp. Course is repeatable for credit; may be taken 4 times for a total of 4 earned credits.

P: PSYCH 344; PSYCH 471.

**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 490. Capstone in Psychology. 3 Credits.**

An in-depth, integrative, interdisciplinary exploration of a topic that varies by section or semester. Course is not repeatable for credit.

P: PSYCH 300; Declared major in psychology; REC: Senior Status

Fall and Spring.

**PSYCH 492. Applied Research Lab. 3 Credits.**

Students are accepted into an applied research lab to acquire in-depth applied research skills working on projects within a group lab setting. Hands-on data application, collection, and interpretation lead to presentations and potential publications. Course may be repeated 4 times for a total of 12 earned credits. Students should use the applications available from the Psychology Department to apply.

Fall and Spring.

**PSYCH 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

P: Psych 102 or Psych 203; 3.0 GPA in Psych and consent of instructor

Fall and Spring.

**PSYCH 496. Research Assistantship. 1-12 Credits.**

Students will assist faculty in conducting research. Responsibilities may include literature reviews, library investigations, questionnaire development, recruitment and interviewing of research participants, data collection, management of research studies, data entry, and some statistical analysis. Course is repeatable for credit; may be taken 12 times for a total of 12 credits.

P: PSYCH 102 OR PSYCH 203 and consent of instructor. REC: PSYCH 300

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. Course is repeatable for credit.

P: jr st and gpa > or = 2.75

Fall and Spring.

**PSYCH 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**PSYCH 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Public Administration (PUB ADM)

### Courses

**PUB ADM 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

**PUB ADM 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 and citizen engagement are also considered.

FSS.

**PUB ADM 215. Introduction to Public and Nonprofit Service. 3 Credits.**

This course explores the principal tools and methods for conducting public service, the external and internal elements affecting public and nonprofit agencies, and the role of these elements and the human dimension in creating and implementing public policies and programs.

Fall and Spring.



**PUB ADM 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**PUB ADM 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**PUB ADM 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 PUB ADM 202

Fall Only.

**PUB ADM 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 PUB ADM 202 or PUB ADM 215

Fall Even.

**PUB ADM 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 PUB ADM 202 or PUB ADM 215

Fall Only.

**PUB ADM 315. Public and Non-Profit Management. 3 Credits.**

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.

Fall Only.

**PUB ADM 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.

P: none. REC: EPP 102 or ENV SCI 102

Spring.

**PUB ADM 326. Philanthropy: Civic Engagement through Giving. 3 Credits.**

A hands-on, student-led course where students give away an actual grant to a local organization. After studying community needs, interviewing experts, gathering local data, working with nonprofits and learning from area philanthropists, students choose how to allocate actual funds (provided by community partners) to one or more to organizations in the community. Appropriate for all majors.

Spring.

**PUB ADM 335. Principles and Practices of Emergency Management. 3 Credits.**

The philosophy of comprehensive Emergency Management will be discussed with the four attendant steps, which include mitigation, preparedness, response and recover. In addition, legal issues involving state and Federal law effecting emergency operations will be studied.

REC: Pu En Af 315.

**PUB ADM 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.

**PUB ADM 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.

**PUB ADM 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.

**PUB ADM 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.

**PUB ADM 344. Leadership in Organizations. 3 Credits.**

There is no single leadership theory or approach that will universally apply across all situations. The purpose of this course is to introduce students to the major theories and models of leadership with a focus on how we can use these theories and models to transform our leadership in practice. Through the use of interactive course activities, students will identify strong leadership practices and distill principles of exemplary leadership for use in their own organizations and communities.

P: None. REC: ORG LEAD 198

FSS.

**PUB ADM 345. Human Resource and Risk Management. 3 Credits.**

This course is applicable to organizations which utilize paid or volunteer staff and face multiple sources of risk to their functioning. Topical coverage will include risk assessment and planning as well as staff development, performance standards, and professional practices regarding proper interviewing, hiring, evaluation and dismissal procedures. Legal requirements and the institutional setting for both human resource and enterprise risk management will be examined.

REC: PUB ADM 202 or PUB ADM 215

Fall and Spring.

**PUB ADM 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/County Management Association and what management and leadership in local government entails. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: POL SCI 101 or PU EN AF 202 or PU EN AF 215 or PU EN AF 225

Fall Only.

**PUB ADM 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 PUB ADM 202 or PUB ADM 215

Fall Only.

**PUB ADM 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 PUB ADM 202 or PUB ADM 215

Spring.

**PUB ADM 425. Marketing, Fund Development, and Grant Writing for Nonprofits. 3 Credits.**

Provides an overview of marketing and fund development strategies for nonprofit organizations. The course also provides an overview of the grant writing process including searching for grants and proposal development.

Fall Only.

**PUB ADM 428. Public and Nonprofit Program Evaluation. 3 Credits.**

A course that develops a working understanding and selected skills relating to the conduct of program evaluations. This course focuses on skills needed to identify and measure program outcomes in order to ensure the effectiveness of programs. Throughout the semester, students develop an actual evaluation plan in partnership with a local public or nonprofit organization, developing professional skills including writing, presenting, communicating, and working in teams.

P: POL SCI 101 or PUB ADM 202 or PUB ADM 215

Spring.

**PUB ADM 430. Seminar in Ethics and Public Action. 3 Credits.**

A capstone course intended to introduce a range of ethical concerns in public administration. Through theoretical and case study readings and applied projects, students deal with ethical issues and varied responses to them.

P: Junior standing

Spring.

**PUB 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.

**PUB ADM 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Typically, the student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**PUB ADM 496. Project/Research Assistantship. 1-6 Credits.**

Students will assist faculty in conducting research and/or conduct their own research project under the guidance of the faculty. Responsibilities/tasks 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 12 times for a total of 12 earned credits.

**PUB 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.

FSS.

**PUB ADM 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**PUB 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.

## Supply Chain Management (SCM)

### Courses

**SCM 200. Principles of Supply Chain Management. 3 Credits.**

This is an introductory course in supply chain management (SCM). This will allow students to understand the components of supply chain management; its role within the function and across other functions in an enterprise.

P: BUSAN 230 AND (BUSAN 220 or MATH 260 or PSYCH 205 or ORG LEAD 346)

Fall and Spring.

**SCM 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.

**SCM 380. Project Management. 3 Credits.**

Project management is an essential component in today's business environment, particularly in Supply Chain Management. This course covers the project management methodology recommended by the Project Management Institute, USA (PMI). It prepares students for successfully managing projects or new initiatives in organizations from inception to completion in a consistent and structured manner. This course provides 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 budgeting and cost management, human resource planning, communication planning, stakeholder analyses, and submission of the final product/service to operations associated with a project.

P: BUSAN 230; BUSAN 220 or MATH 260 or PSYCH 205 or ORG LEAD 346; and overall minimum GPA of 2.5

Fall and Spring.

**SCM 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, workforce, 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: Overall minimum GPA of 2.5

Spring.

**SCM 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. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: SCM 200 and an overall minimum GPA of 2.5

Fall Only.

**SCM 384. Advanced Supply Chain Management. 3 Credits.**

This course allows students to understand the components of Supply Chain Management (SCM), and its role within and across the function in an enterprise. The objectives of supply chain management are to create value, build a competitive infrastructure, leverage worldwide logistics, synchronize demand and supply, and to measure performance. SCM deals with storage and distribution of goods and services, in the right quantity, right condition, at the right time, and in the right place. The goal of this course is to provide an overview of the supply chain management function and associated concepts. The course provides an understanding of the activities involved in this function. This course also provides a basic understanding of the analytical tools and applications used in SCM. The course introduces some challenges in managing global supply chains. The course provides an opportunity to work in teams, explore a real-life situation related to concepts taught in the course, and to do a research project. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: SCM 200 and an overall minimum GPA of 2.5

Fall and Spring.

**SCM 434. Logistics Management. 3 Credits.**

This course is about logistics and transport management. The course allows students to deepen their knowledge and understanding of various logistics & transportation management components, their role across other functions in an enterprise, and their importance in the global business environment.

The primary objective of logistics management is to provide support for the storage and distribution of goods and services, from an enterprise to customers, and any returns from customers to an enterprise with or without channel partners. This course aims to build on the learnings from the previous SCM courses and provide an in-depth understanding of the roles of the logistics function, concepts, and principles used in addressing the needs of an enterprise while minimizing the costs and environmental impacts.

P: SCM 200 and overall minimum GPA of 2.5

Fall Only.

**SCM 444. Purchasing. 3 Credits.**

The Purchasing course will explore procurement's strategic and operational aspects of within a modern supply chain. The course covers the development of an effective supply strategy, guiding decisions on whether to make in-house or buy from external sources, alongside exploring insourcing and outsourcing approaches. Students will learn how to accurately identify organizational needs, assess cost management practices, and ensure the quality and quantity management in procurement processes. A key focus will be on selecting of suppliers, evaluating both qualitative and quantitative factors to secure the best partnerships. The course also covers critical areas such as contract management, negotiation techniques, and the complexities of global supply chains. Emphasizing real-world application, the curriculum prepares students to manage purchasing functions integral to maintaining competitive advantage in today's interconnected global market.

Spring Even.

**SCM 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course.

HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**SCM 496. Project/Research Assistantship. 1-6 Credits.**

The student must prepare a research proposal, and both parties should identify the research arrangement and how the student will complete the work to fulfill the course objectives within the assigned term. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

**SCM 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. This course has been identified as a Cofrin School of Business High Impact Practice (HIP) course. HIPs are rigorous courses that include engaging teaching methods such as regular feedback, peer and faculty interaction, structured reflection, and application of knowledge.

P: Junior standing and an overall minimum GPA of 2.50

Fall and Spring.

**SCM 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: Junior standing and an overall minimum GPA of 2.5

Fall and Spring.

## Sociology (SOCIOLOGY)

### Courses

**SOCIOLOGY 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.

**SOCIOLOGY 101. Introduction to Sociology. 3 Credits.**

Major sociological concepts and ideas and their application to contemporary societies.

Fall and Spring.

**SOCIOLOGY 130. Contemporary Social Problems. 3 Credits.**

Sociological analysis of the nature, extent, causes, and potential solutions to selected major social problems. Topics may include poverty, crime and violence, drug abuse, family problems, quality of education, inadequate health care, population problems, intergroup conflict, and threats to the environment.

Spring.

**SOCIOLOGY 160. Sociology of Human Sexuality. 3 Credits.**

Sociological overview of issues in human sexuality. Course is based on sociological investigations of the origins, nature and biosocial consequences of varying customs and ideals of human sexuality. Among topics that may be covered are: sex and family life, contraception, abortion and social power, violations of sexual norms and ideas about sexual propriety, origins and impact of sexual liberation movements, sociosexual aspects of epidemics, sociological interpretations of sexual dissatisfactions.

**SOCIOLOGY 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.

**SOCIOLOGY 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: SOCIOLOGY 101 or ANTHRO 100

Fall and Spring.

**SOCIOLOGY 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.

**SOCIOL 220. Sociology of Marriage and the Family. 3 Credits.**

Marriage and the family as social institutions in a changing world. Historical changes and societal variations in family patterns. Changes over the life cycle. Explores the sources and consequences of a variety of family forms.

**SOCIOL 231. Crime and Criminal Justice. 3 Credits.**

Explores the nature of crime and critically reviews ideas about definitions, causes, and solutions. Includes an introduction to the day-to-day functioning of the criminal justice system, the police, lawyers, courts, and correctional personnel.

Fall Odd.

**SOCIOL 235. Introduction to Social Psychology: A Sociological Perspective. 3 Credits.**

Introduction to the study of social psychology with focus on sociological contributions to the study of social interaction and small group theory; topics may include: socialization, motivation, attitudes, values, communications, leadership.

P: SOCIOL 101

Spring Odd.

**SOCIOL 238. Sociological Perspectives on Gender. 3 Credits.**

A sociological examination of roles assigned to women and men in society, including the experiences of marriage, parenthood, employment and occupational attainment. Pays particular attention to gender role socialization and its cultural reinforcement, to patterns of gender relations and to ongoing changes.

**SOCIOL 246. Juvenile Delinquency. 3 Credits.**

Overview of history and theories of juvenile delinquency, family and school relations, and best practices and programs in dealing with juvenile delinquency.

P: None. REC: SOCIOL 101 or ANTHRO 100.

**SOCIOL 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**SOCIOL 302. Social Stratification. 3 Credits.**

Systems of hierarchical ranking in American and other societies, including castes, estates, and social class; classical and contemporary theories of social class and social inequality; intersection of inequalities based on social class, race, gender; studies of social class structure, power, and mobility.

P: SOCIOL 101

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 101 or SOCIOL 203

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 101.

**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 101

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 101 or PSYCH 203 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 SOCIOL 100 or PUB ADM 202 or SOCIOL 101

Fall Only.

**SOCIOL 311. Collective Behavior and Social Movements. 3 Credits.**

Structure and processes of crowds, social movements and masses; societal contexts and relationships to social change.

P: SOCIOL 101.



**SOCIOL 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.

**SOCIOL 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.

**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 101 or Anthro 100 or Ur Re St 100.

Spring Odd.

**SOCIOL 316. Criminal Justice Systems, Administration, and Processes. 3 Credits.**

Explores the varied sub-systems that make up our criminal justice system, with a strong focus on the day-to-day functioning of the criminal justice system. Students will work through the organizations and procedures that start with law enforcement on the street, leading through arrests, the criminal court process, sentencing, incarceration, and eventual release and reintegration. Throughout the course, students will learn the relevant constitutional law relevant to the operations of the different sub-systems.

REC: SOCIOL 231

Fall Only.

**SOCIOL 320. Sociology of Religion. 3 Credits.**

Study of religious institutions and religious movements; sociological theories about the origin of religions; sociological study about the effects of religion in contemporary society.

P: SOCIOL 101 or ANTHRO 100

Fall Even.

**SOCIOL 321. Topics in Sociology. 3 Credits.**

Explores a single theme from a sociological perspective. Course is repeatable for credit if topics differ.

P: SOCIOL 101

Fall and Spring.

**SOCIOL 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 SOCIOL 101 or SOCIOL 203 or UR RE ST 100

Spring Odd.

**SOCIOL 324. Latino Communities in the United States. 3 Credits.**

Survey of Latino communities in the United States, taking an interdisciplinary approach exploring Latino voices from the Humanities and Social Sciences. The course will explore issues of formation of ethnic communities, the diversity among Latino communities and current issues affecting Latinos in the U.S. such as immigration policy, bilingual education, and urban issues impacting Latino communities.

Spring Odd.

**SOCIOL 325. Research Methods in Sociology & Anthropology. 3 Credits.**

Overview of research methods used in sociology and anthropology, including codes of ethics, research quantitative and qualitative methods, role of institutional review board, development of research proposal, and case studies.

P: SOCIOL 101 or ANTHRO 100. REC: PSYCH 205

Spring.

**SOCIOL 330. The Sixties. 3 Credits.**

Overview of history and events of the 1960s, including Vietnam War, anti-war protests, civil rights, Summer of Love, music and culture.

P: SOCIOL 101 or ANTHRO 100

Spring Odd.

**SOCIOL 335. Social Psychology: A Sociological Perspective. 3 Credits.**

Sociological analysis of the origins and development the self through the socialization process. Emphasis is placed on the social influence of social institutions, organizations, and significant others on identity, behavior and attitudes. Explores the various interactional dynamics involved in social process with an emphasis on analysis of theory and research in sociology.

P: SOCIOL 101 or ANTHRO 103. REC: SOCIOL 235

Spring.

**SOCIOL 340. Sociology of Family Violence. 3 Credits.**

Exploration of family violence from a sociological perspective examining the nature, prevalence, contributing factors, and consequences with a specific focus on the operations of power and agency. This course is organized by key forms of family violence, including intimate partner violence, child abuse, elder abuse, sibling violence, and entangled victims, with a focus on theoretical frameworks, cultural factors, and social policies.

P: None. REC: SOCIOL 101

Spring Odd.

**SOCIOL 350. Society & Animals. 3 Credits.**

Survey of the relationship between humans and other animals from a sociological perspective. Students will explore the social construction of animals within societies and the role that animals play in shaping social identities, interaction, and structures. Key topics include: historical and cultural variations in human-animal relationships; the role of animals in the socialization processes and family systems; animals in popular culture; the role of animals in the economy, work, and leisure; nonhuman animal involvement in experiences with varied social problems such as violence and poverty; ethical considerations, social movements, and policies regarding the treatment of animal others; and intersections of power including race, class, and gender.

P: None. REC: SOCIOL 101

Fall Odd.

**SOCIOL 355. Environmental Sociology. 3 Credits.**

Explores the socio-cultural foundations of our relationship with the natural environment. Examines the relationship between environmental degradation and social, political, and economic structures. Explores beliefs and values about the environment and their expression in various forms of environmentalism and environmental movements. Also analyzes the presentation of environmental issues in cultural, political, and scientific domains.

P: SOCIOL 101 or ANTHRO 100

Fall Odd.

**SOCIOL 357. Environmental Justice. 3 Credits.**

Sociological analysis of how environmental problems such as pollution, ecological destruction, and climate change are experienced differently across race, gender, social class, and region. The focus is on justice and how it operates in social institutions such as economy, politics, science and technology and the larger culture with regard to the natural environment.

Spring.

**SOCIOL 375. Sociology of Sexual and Intimate Relations. 3 Credits.**

The social construction of intimacy and sexuality in the development of self and personal life with emphasis on gender and intimate experience; changing ideas of love and erotic pleasure; and mass cultural influences on intimate and sexual relations.

P: SOCIOL 101 and two other soc sci courses.

Spring Even.

**SOCIOL 404. Criminology. 3 Credits.**

Criminology is a survey of the theories and methods sociologists use to study crime and delinquency. The course presents the disciplinary history of criminology and critically examines the structure and function of the criminal law and punishment.

P: SOCIOL 101 or DJS 204

Spring Even.

**SOCIOL 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**SOCIOL 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**SOCIOL 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.



# Social Work (SOC WORK)

## Courses

### **SOC WORK 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.  
Reserved for New Incoming Freshman  
Fall Only.

### **SOC WORK 202. Introduction to Social Services. 3 Credits.**

Overview of the disciplinary distinctions within social services positions in the field which interface with vulnerable and oppressed societal groups; explores students' cultural development and daily life experiences within career exploration.  
Fall and Spring.

### **SOC WORK 204. Sustainability and Social Problems. 3 Credits.**

Social work and human service systems roles in promoting environmental sustainability and attention to intertwined social problems are examined in this course.  
Fall and Spring.

### **SOC WORK 213. Human Trafficking. 3 Credits.**

This course will examine types of human trafficking; provide an understanding of the scope of the problem, both domestically and globally; and explore responses to addressing this complex human rights issue.  
FSS.

### **SOC WORK 285. Ethics in Practice. 3 Credits.**

The course examines ethics in practice within human services, including critical analysis of complex issues which influence decision-making.  
Fall and Spring.

### **SOC WORK 299. Travel Course. 1-6 Credits.**

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

### **SOC WORK 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; PSYCH 205 or MATH 260 or BUS ADM 220; concurrent enrollment in SOC WORK 311, SOC WORK 323, & SOC WORK 372.

Spring.

### **SOC WORK 304. Foundations of Crisis Intervention. 3 Credits.**

Course teaches foundational application of crisis theory and principles necessary for entry level positions in crisis related services. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.  
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; concurrent enrollment in SOC WORK 313 & SOC WORK 371  
Fall Only.

### **SOC WORK 307. Ethics in Practice. 3 Credits.**

Course examines ethics in practice within human services including critical analysis of complex issues which influence decision-making.  
P: None. REC: Sophomore standing  
Spring.

### **SOC WORK 311. 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: SOC WORK 305 and concurrent enrollment in SOC WORK 301, SOC WORK 323, and SOC WORK 372  
Spring.

**SOC WORK 313. Skills I: Professionalism & Teamwork. 2 Credits.**

Instruction and practice in social work values and ethics, along with professional behaviors and writing, across practice settings. Skill development is emphasized and reinforced through a service-learning component, which provides a framework for determining readiness to progress to the Senior Field Practicum.

P: Major in Social Work; conc enr in Soc Work 305 & Soc Work 371.

Fall Only.

**SOC WORK 323. Skills II: Beginning Interviewing. 1 Credit.**

Instruction and practice in basic interviewing skills for the beginning social work professional. Course also includes preparation for the social work field practicum experience.

P: Major in Social Work; SOC WORK 313; conc enr in Soc Work 301, SOC WORK 311, and SOC WORK 372

Spring.

**SOC WORK 342. Psychopharmacology. 2 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

Spring.

**SOC WORK 344. Grant Writing for Success. 2 Credits.**

This course introduces students to common components of grant writing for human services organizations, including development of goals, objectives, methods, evaluation plans, and budgets.

P: sophomore standing

Spring.

**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.

Fall Only.

**SOC WORK 371. Human Behavior and the Social Environment I. 2 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; PSYCH 203; WF 105 or concurrent enrollment; concurrent enrollment SOC WORK 305 and SOC WORK 313

Fall Only.

**SOC WORK 372. Human Behavior and the Social Environment II. 1 Credit.**

Application of concepts from HBSE I with special attention to human diversity.

P: Major in SOC WORK, SOC WORK 371; concurrent enrollment SOC WORK 301, 311, 323

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

Spring.

**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: WF 105.

**SOC WORK 400. Field Seminar I. 1 Credit.**

This seminar course focuses on the application and integration of social work knowledge, values and skills to supervised social work practice in human service settings. The field internship is completed concurrently with the course.

Fall Only.

**SOC WORK 401. Field Seminar II. 1 Credit.**

This seminar course focuses on the application and integration of social work knowledge, values and skills to supervised social work practice in human service settings. The field internship is completed concurrently with the course.

P: Major in Social Work; SOC WORK 400; Concurrent enrollment in SOC WORK 403, SOC WORK 421, and SOC WORK 423.

Spring.

**SOC WORK 402. Field Practicum I. 4 Credits.**

Actual social service work through placement in a social service agency.

P: Major in SOC WORK, conc enr in SOC WORK 400, SOC WORK 411, & SOC WORK 413, earned grade of "C" or higher in SOC WORK 313.

Fall Only.

**SOC WORK 403. Field Practicum II. 4 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 401, SOC WORK 421 & SOC WORK 423  
Spring.

**SOC WORK 411. Micro Methods I. 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; concurrent enrollment in SOC WORK 400, SOC WORK 402 & SOC WORK 413.  
Fall Only.

**SOC WORK 413. Skills III: Advanced Interviewing Skills. 1 Credit.**

Instruction and practice in advanced interviewing skills needed by the beginning social work professional.

P: Major in Social Work and SOC WORK 323; conc enr in SOC WORK 400, SOC WORK 402 & SOC WORK 411.  
Fall Only.

**SOC WORK 421. Micro Methods II. 2 Credits.**

Theory and methods of planned change interventions with specific populations at risk; integration of micro and macro level practice, with an emphasis on community organizing; evaluation of practice; and termination.

P: Major in SOC WORK, SOC WORK 411; concurrent enrollment in SOC WORK 401, SOC WORK 403, and SOC WORK 423  
Spring.

**SOC WORK 423. Skills IV: Intervention Strategies. 1 Credit.**

Instruction and practice in professional interactional skills focusing on small and large groups, and specialized intervention skills.

P: Major in Social Work; SOC WORK 413; conc enr in SOC WORK 401, SOC WORK 403 & SOC WORK 421  
Spring.

**SOC WORK 441. Macro 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. 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: Major in SOC WORK, SOC WORK 311 and 372; concurrent enrollment in SOC WORK 461  
Fall Only.

**SOC WORK 442. Macro Methods II. 3 Credits.**

Continued application of social work methods to planned changes with organizations and communities; explores how agency and community contexts shape social work practice. 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: Major in SOC WORK, SOC WORK 441; concurrent enrollment SOC WORK 462.  
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  
Fall Only.

**SOC WORK 455. First Nations Futures and Decolonizing Social Work. 2 Credits.**

This course introduces students to the impact of colonization on First Nations societies, and decolonization in terms of First Nations resistance, reclamation, and resilience. Decolonization in social work is also explored.

Spring.

**SOC WORK 461. Applied Research I. 2 Credits.**

Introduction to the principles of program evaluation and community research. Design and implement an evaluation research project.

P: Major in Social Work; SOC WORK 301; conc enr in Soc Work 441  
Fall Only.

**SOC WORK 462. Applied Research II. 1 Credit.**

Analyze and interpret data from community research project; make recommendations for new or changed programs or policies.

P: Major in SOC WORK, SOC WORK 461; concurrent enrollment in SOC WORK 442  
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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

**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. Course is repeatable for credit.

P: jr st.

**SOC WORK 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**SOC WORK 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Software Engineering (SE)

## Spanish (SPANISH)

### Courses

**SPANISH 100. Spanish Language through Culture. 3 Credits.**

An introduction to the Spanish language that focuses as much on the cultural aspects of the language as on the language itself. Students can expect to learn basic elements of vocabulary and structure while learning about the people who speak the language in the US and around the world.

**SPANISH 101. Introduction to the Spanish Language I. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Spanish.

Fall Only.

**SPANISH 102. Introduction to the Spanish Language II. 4 Credits.**

Development of basic ability in understanding, reading, speaking and writing in Spanish.

P: none; REC: 1 yr h.s. or 1 sem college Spanish.

Spring.

**SPANISH 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman

Fall Only.

**SPANISH 201. Intermediate Spanish Language I. 3 Credits.**

Further development of the ability to understand, read, write and speak Spanish.

P: none; REC: 2 yrs h.s. or 2 sem college Spanish.

Fall Only.

**SPANISH 202. Intermediate Spanish Language II. 3 Credits.**

Further development of the ability to understand, read, write and speak Spanish.

P: none; REC: 3 yrs h.s. or 3 sem college Spanish.

Spring.

**SPANISH 222. Special Topics. 3 Credits.**

Spanish 222 is an intermediate-level course meant to serve as an extension of learning that took place in Spanish 202. Spanish 222 has an emphasis on continued language proficiency in Spanish and includes the study of different cultural topics, including literature, film, and other cultural products and practices. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 credits.

P: SPANISH 202

Fall and Spring.

**SPANISH 224. Heritage Language and Culture. 3 Credits.**

This course is designed for Heritage Learners of Spanish. A Heritage Learner is an individual who was born and raised in a home where Spanish language is spoken, who has some ancestral or historical connections Spanish and some degree of affective perception of it. This course will help a heritage learner develop linguistic competence, academic/professional skills, and cultural awareness.

Fall Only.

**SPANISH 225. Composition and Conversation. 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 285. Study Abroad: Spain and Latin America. 3-15 Credits.**

P: cons of instr & prior trip arr & financial deposit.

**SPANISH 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**SPANISH 324. Advanced Heritage Language and Culture. 3 Credits.**

Continues development of heritage language and culture knowledge improving linguistic competence, academic/professional skills, and cultural awareness.

P: SPANISH 224 or instructor permission

Spring.

**SPANISH 325. Advanced Spanish 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: Spanish 225.

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 225 or SPANISH 224. REC: SPANISH 325 or SPANISH 324

Fall Only.

**SPANISH 345. Advanced Spanish Grammar. 3 Credits.**

In-depth review and continued study of Spanish grammar.

P: SPANISH 325 or SPANISH 324

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. Course is repeatable for credit if topics differ.

P: SPANISH 225 or SPANISH 224. REC: SPANISH 325 or SPANISH 324

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 or SPANISH 224

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 225 or SPANISH 224. REC: SPANISH 325 or SPANISH 324

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 225 OR SPANISH 224. REC: SPANISH 325 or SPANISH 324

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 225 or SPANISH 224. REC: SPANISH 325 or SPANISH 324  
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 225 or SPANISH 224. REC: SPANISH 325 or SPANISH 324  
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 225 or SPANISH 224. REC: SPANISH 325 or SPANISH 324  
Spring Odd.

**SPANISH 372. Spanish Phonetics. 3 Credits.**

Survey of descriptive linguistics with emphasis on the sound system of Spanish.

P: SPANISH 224 or SPANISH 225  
Fall Even.

**SPANISH 373. Spanish in the US. 3 Credits.**

This course will provide an overview of the Spanish language situation in the U.S. context, discuss in detail varieties of Spanish present in the US (i.e., Mexican Spanish, Cuban Spanish, etc.) and address current issues including, but not limited to, language contact, language attitudes, language and identity, and language policy.

P: SPANISH 225 or SPANISH 224. REC: SPANISH 325 or SPANISH 324  
Spring Odd.

**SPANISH 383. Spanish in the Professions. 3 Credits.**

Advanced study of the language and vocabulary needed for use in specific professions, such as (but not limited to) business, social work, education, law enforcement or health care.

P: SPANISH 226 or SPANISH 324 or permission of instructor  
Fall Odd.

**SPANISH 438. Major Spanish and Latin American Writer(s). 3 Credits.**

Study of an outstanding figure in Spanish and Latin American literatures. Course is repeatable for credit if topics differ.

P: SPANISH 225 or concurrent enrollment  
Spring Odd.

**SPANISH 454. Translation and Interpretation. 3 Credits.**

This seminar helps students apply their language knowledge and skills by working closely with a Spanish faculty on specific translation and/ or interpretation projects.

P: SPANISH 465 Special Topics: Translation and Interpretation or Instructor permission. REC: SPANISH 345.

**SPANISH 465. Special Topics. 3 Credits.**

This variable content course will allow students to analyze seminal aspects pertaining to the language, history and cultures of Spain, Latin America and the Spanish-speaking communities in the United States. Course may be repeated for credit if topics differ.

P: SPANISH 225 or SPANISH 224. REC: SPANISH 325 or SPANISH 324.

**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 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

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. Course is repeatable for credit.

Fall and Spring.

**SPANISH 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00; REC: SPANISH 225

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.**

An examination of theatre as a reflection of cultural ideologies, philosophies, norms and practices, this course delivers a survey of theatrical experiences as well as an examination of how theatre is/was produced. Literature, production elements, and practitioners of theatre from varying eras, historical perspectives, and cultural practices.

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. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.

Fall and Spring.

**THEATRE 131. Beginning Acting. 3 Credits.**

Develops a basic organic approach to acting technique through theatre games, vocal and physical exercises, scene work, and improvisation.

Fall and Spring.

**THEATRE 134. Movement for the Actor. 3 Credits.**

Explores the essential physical elements of acting and physical approaches to developing and expressing character, enhancing comedic impact, and controlling focus.

P: THEATRE 131 or conc enr or permission of instructor

Spring.

**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. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.

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. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

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. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.

Fall Odd.

**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. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.

Spring Odd.

**THEATRE 161. Tap Dance I. 1 Credit.**

An introductory study of tap dancing, with emphasis on basic technique, steps, and combinations. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.

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 200. Script Analysis. 3 Credits.**

Students will develop analytical, critical, and creative thinking skills through in-depth study of performance texts as case-studies to engage in broader intercultural experiences. Using various modes and methods of analysis, students will read plays, screenplays, television scripts, and/or other performance texts from different eras and cultures to hone their analytical skills.

Fall Only.

**THEATRE 211. World Theatre and Performance. 3 Credits.**

An introduction to the performing arts through multiple global perspectives. Key genres and styles emerging from Asia, Africa, Latin America, the Middle East and Europe will be studied in depth by examining performance traditions as they transform in relation to changing historical and social conditions.

Fall Only.

**THEATRE 218. Exploring the Arts. 3 Credits.**

Students will attend a diverse array of theatre performances, author readings, and gallery exhibitions. Through guided reflections and discussions, participants will analyze and critique the artistic expressions encountered, exploring themes, techniques and cultural contexts. Emphasizing experiential learning, this course provides firsthand exposure to the richness of contemporary artistic practices while fostering critical thinking and aesthetic appreciation.

Fall and Spring.

**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, THEATRE 336, THEATRE 338 or THEATRE 339. REC: THEATRE 335 or THEATRE 336

Spring 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 in Design. 3 Credits.**

This course will introduce students to computer applications frequently used within multiple design industries while seeking to increase technological literacy and problem-solving skills.

Spring.

**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.

Fall Even.

**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.

Course is repeatable for credit; may be taken 4 times for a total of 8 credits.

P: Theatre 128

Spring.



**THEATRE 231. Acting II. 3 Credits.**

Scene work in realistic dramas; practice in techniques of script analysis and character development. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

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 234. Acting for the Camera. 3 Credits.**

Acting for the Camera will explore techniques for successful acting in film, television, commercials and other on-camera platforms. Students will become familiar with production procedures on set and techniques for "right-size" expression in body, voice, face and eyes in single-camera, multi-camera and steadicam shoots. Students will be on camera each class period and the recordings will be analyzed for further learning.

P: None. REC: THEATRE 131

Fall and Spring.

**THEATRE 241. Improvisation for Business. 3 Credits.**

What do you do when you make a mistake or are thrown by the question? You improvise! Learn the tools great improvisers use to surprise us and make us laugh, and use them to help you succeed in situations you're not fully prepared for. Practice active listening, diving in, saying not only "yes" but "Yes and!". Learning Outcomes will include: Students will develop confidence speaking in front of a group Students will become more comfortable with uncertainty and adapt quickly to new situations Students will apply empathetic communication strategies to effectively express, listen, and adapt to others to establish relationships, to work collaboratively, or to take action. Students will demonstrate an understanding of human behaviors and thoughts on both individual and societal levels, integrating the insights gained from their academic disciplines into their social and civic interactions. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

Fall and Spring.

**THEATRE 250. Dramaturgy I (Theatre Theory & Research Methods). 3 Credits.**

Students are introduced to the theoretical practices used by practitioners in the interdisciplinary fields of theatre. Additionally, students will be guided through appropriate research practices, all while learning the basics of dramaturgy, the role of the dramaturg, and how it applies to production work.

Fall Only.

**THEATRE 261. Tap Dance II. 1 Credit.**

Continuation of Tap Dance I introducing more complex tap technique. Increase speed and clarity of technique, and complexity of tap combinations and dances. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.

P: Theatre 161.

Fall Only.

**THEATRE 283. SELECTED TOPICS. 1-4 Credits.**

Topics vary; may be repeated if topics differ.

**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. Course is repeatable for credit; may be taken 2 times for a total of 2 credits.

P: THEATRE 190 or MUS APP 106; declared Musical Theatre major. REC: conc enr in choral ensemble/workshop or theatre/musical theatre production

Fall and Spring.

**THEATRE 298. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.

**THEATRE 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**THEATRE 302. Playwriting I. 3 Credits.**

This course develops basic skills in playwriting through assigned readings, class discussions, and creative-writing assignments. Students will exit the course with completed drafts of one 10-minute play and one One-Act play. In addition to building their skills as a playwright, at the end of the semester students will select one of these projects to be presented in a staged-reading format open to the public.

P: THEATRE 200

Spring.

**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 19th Century. 3 Credits.**

This course will focus on the development of Western theatre history and literature from the Ancient Greeks to the late 19th century. Students will make connections between the cultural practices (politics, religion, social life, etc.) of a particular time and place and the theatre that was produced by it. This will not only lead to a fuller understanding of the origins of this work, but should help the student become a more sophisticated and informed artist and/or audience member when considering the dramatic offerings of today, including television, films and web content.

Fall Only.

**THEATRE 310. Theatre History II: Realism to Contemporary. 3 Credits.**

This course will focus on the development of Western theatre history and literature from the late 19th century to Contemporary. Students will make connections between the cultural practices (politics, religion, social life, etc.) of a particular time and place and the theatre that was produced by it. This will not only lead to a fuller understanding of the origins of this work, but should help the student become a more sophisticated and informed artist and/or audience member when considering the dramatic offerings of today, including television, films and web content.

REC: THEATRE 309

Spring.

**THEATRE 321. Scene Design. 3 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, THEATRE 223 and THEATRE 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 Odd.

**THEATRE 325. Makeup for Stage, Screen and Film. 3 Credits.**

Principles and applications of makeup for the stage, media and screen arts, and film applications: materials, light and color, and character analysis.

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. Course is repeatable for credit; may be taken 5 times for a total of 10 credits.

P: THEATRE 228

Fall Even.

**THEATRE 331. Acting III. 3 Credits.**

Project based work for the development of specific skills for the actor. Variable Topics include Character Development, Devised Work, Shakespeare, Physical Comedy and Acting for Musical Theatre. Course is repeatable for credit; may be taken 3 times for a total of 9 credits.

P: THEATRE 231; conc enr in THEATRE 335 or THEATRE 336 or THEATRE 338 or THEATRE 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 334. Movement Theory and Analysis. 1 Credit.**

Theory and analysis of dance movement for upper division dance students. P: None.

Spring Even.

**THEATRE 335. Production Practicum: Crews. 1 Credit.**

Crew member/staff participation in a theatre production. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.

P: Major or Minor status in Theatre and Dance; Non majors/minors are invited to seek permission to register

Fall and Spring.

**THEATRE 336. Production Practicum: Performance. 1 Credit.**

Performance in a theatre production. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.  
Fall and Spring.

**THEATRE 338. Production Practicum: Scene Shop. 1 Credit.**

Complete production work in scene shop preparation. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.  
Fall and Spring.

**THEATRE 339. Production Practicum: Costume Shop. 1 Credit.**

Complete production work in costume shop preparation. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.  
P: Theatre 222.  
Fall and Spring.

**THEATRE 340. Dance History. 3 Credits.**

Dance History comes from a melting pot of world cultures. Origins and chronological development of dance styles and techniques from pre-historic cultures to present. Historical events, major developments, choreographic works and personalities influencing the development of each dance genre's origin, development, and presence in society today. Genres included but not limited to: folk dance, ballet, modern, jazz/tap, musical theatre, and social dance (from Ballroom to Hip Hop).  
Fall Even.

**THEATRE 350. Production Practicum. 1 Credit.**

Complete production work in all areas of Theatre and Dance program. Specific assignments determined by Theatre faculty to necessitate production needs. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.  
Fall and Spring.

**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, THEATRE 200; and conc enr in THEATRE 335, THEATRE 336, THEATRE 338, THEATRE 339, THEATRE 356, THEATRE 357, THEATRE 358, or THEATRE 359  
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. Course is repeatable for credit; may be taken 5 times for a total of 5 credits.  
Fall and Spring.

**THEATRE 357. Production Practicum: Wardrobe and Makeup Crew. 1 Credit.**

Production work on a wardrobe crew. Course is repeatable for credit; may be taken 16 times for a total of 16 credits.  
P: Theatre 222 or Theatre 325  
Fall and Spring.

**THEATRE 358. Performance Practicum: Musical. 1 Credit.**

Performance in a mainstage musical. Course is repeatable for credit; may be taken 8 times for a total of 8 credits.  
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. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.  
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. Course is repeatable for credit; may be taken 3 times for a total of 3 credits.  
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.  
Spring Even.

**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 builds on skills developed in Tap Dance I and Jazz Dance II. Course is repeatable for credit; may be taken 2 times for a total of 2 credits.

P: THEATRE 161 and THEATRE 228

Fall Even.

**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. Course is repeatable for credit; may be taken 4 times for a total of 4 credits.

P: Theatre 290 and instructor consent. REC: conc enr in choral/vocal ensemble or theatre/musical theatre production.

Fall and Spring.

**THEATRE 402. Playwriting II (the Long Play). 3 Credits.**

An advanced course where students employ skills from Playwriting I to write a full-length play. In the course, attention is given to topics such as: the sustainability of an idea, discovering your voice, marketing & networking, and the role of the playwright in production. The semester culminates in a playwright's festival where staged-readings of students' work will be on display for public audiences.

P: THEATRE 200 and THEATRE 302

Spring.

**THEATRE 403. Performance Seminar. 3 Credits.**

Individual or small group study focused on a specific area or areas of theatre interest of various periods and cultures.

Fall and Spring.

**THEATRE 404. Design Seminar. 1-3 Credits.**

Focused study on a specific area or areas of theatrical design and technology such as: rendering, drawing, modeling, projections, special effects, automation, design aesthetics, metalworking, rigging, programming, production management and portfolio presentation. Course is repeatable for credit if topics differ; may be taken 9 times for a total of 9 credits.

**THEATRE 410. Playwrights Workshop. 3 Credits.**

Advanced writing students will meet once a week for a three-hour period to read and respond to each other's work in an interactive, high-impact, collaborative atmosphere. Each week, one student will bring in their play to be read and critiqued. Students cycle through turns, each time bringing in a new draft to be read. In doing so, students have the opportunity to strengthen their plays in a structured environment while also being exposed to the rigors of the re-writing process as well as the critique process.

P: THEATRE 302 AND THEATRE 402. REC: THEATRE 200 AND THEATRE 250

Fall and Spring.

**THEATRE 415. Contemporary Playwriting Methods. 3 Credits.**

Students will read and write plays that exist outside the realm of causal-realism. In addition to readings and discussions, students will write plays that utilize the techniques employed by devised, language-based, and non-traditional forms of playwriting.

P: THEATRE 302 and THEATRE 402. REC: THEATRE 200, THEATRE 250, THEATRE 450

Spring Even.

**THEATRE 421. Scene Painting. 3 Credits.**

A Project oriented course incorporating the tools, materials, and techniques necessary to prepare a variety of visual textures and details necessary in theatrical scenic environments. Projects include Marble, Brick, Stone, Granite, Stencils, wood, Foliage, Metallic or Glass surfaces and a large detailed Final Group Project.

Fall Odd.

**THEATRE 422. Costume Crafts. 3 Credits.**

Advanced instruction in special topics in costume technology, including but not limited to Millinery, Painting and Dyeing, Corsetry and Padding, Pattern Drafting and Draping, Masks, Armor, and Distressing.

P: Theatre 221 and 222; and conc enr in Theatre 335 or 336 or 338 or 339.

**THEATRE 423. Advanced Stage Lighting. 3 Credits.**

Aesthetic practice of lighting in theatrical production, emphasizing programming and analysis. Practical application of the tools used in lighting.

P: Theatre 224 and 323; conc enr in Theatre 335, 336, 338 or 339.

Spring Even.

**THEATRE 426. Sound for Theatre. 3 Credits.**

A Project oriented course exploring the design process used for creating, selecting and editing music/sound effects for a theatrical production. Aesthetic and technical aspects of designing sound are discussed, demonstrated and realized. The course will culminate with each student creating and presenting a complete sound design for a specific script.

Fall Odd.

**THEATRE 433. Vocal Specialization. 1 Credit.**

Detailed production specific vocal work for special problems and/or solutions to character development and vocal production issues.

Fall and Spring.

**THEATRE 440. Choreography. 3 Credits.**

Technical forms and applications for composition of movement. Study of rhythmic patterns and their relationships to movement, creative content, musical interpretation, projection and dynamics. Includes movement and placement for large ensembles.

P: THEATRE 228

Fall Odd.

**THEATRE 450. Dramaturgy II (Theatre Theory in Practice). 3 Credits.**

This high-impact course looks at the intersection where theatre theory meets theatre history and theatre practice. Students will use the UW-GB Department of Theatre and Dance season to act as if they were production dramaturgs to create resource packets, outreach material, and lobby displays through research techniques and application of theatre theory. Use of the work is available to production directors if interested.

P: THEATRE 200 and THEATRE 250. REC: THEATRE 309, THEATRE 310, THEATRE 351

Spring Odd.

**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. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: Theatre 131, Theatre 221, Theatre 222, Theatre 351

Fall and Spring.

**THEATRE 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**THEATRE 496. Project/Research Assistantship. 1-6 Credits.**

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

**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. Course is repeatable for credit.

P: jr st.

Fall and Spring.

**THEATRE 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

Fall and Spring.

**THEATRE 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

## Water Science (WATER)

### Courses

**WATER 201. Introduction to Water Science. 3 Credits.**

Water Science is the interdisciplinary study of water and its interaction with solids, liquids, gases, and organisms in various Earth systems. Water is essential to life, and it plays a critical role in nearly every natural process in Earth's lithosphere, atmosphere, hydrosphere, biosphere, and cryosphere. The world faces significant challenges regarding water quantity, quality, and ecological function that are expected to worsen during the 21st century. It is rare to find a real-world system in which water does not play a significant role.

Fall and Spring.

**WATER 202. Introduction to Water Science Laboratory. 1 Credit.**

Laboratory course to accompany WATER 201 Introduction to Water Science.

**WATER 321. Stable Isotopes in the Environment. 1 Credit.**

Stable isotope analysis has become a standard tool in modern science. The natural variability in non-radioactive (stable) isotopes corresponds to specific physical and biological processes throughout the global Earth System. This course explores the basics of stable isotope chemistry, with most of the course dedicated to examples of their application across several scientific fields.

P: CHEM 211 or consent of instructor

Spring Odd.

**WATER 410. Agriculture-Water Nexus in Wisconsin. 3 Credits.**

This course uses different forms of agriculture in the context of variable geomorphology, climatology, and hydrology to provide students with a greater understanding of the interconnected processes relevant to agriculture and water management (both quantity and quality) across Wisconsin. Students will be introduced to the nexus of agriculture and water broadly through examples and case studies in Wisconsin. The topics covered will leverage ongoing ag-water quality monitoring and research projects and will engage students with agricultural and water resource management practices used to mitigate the impacts of agriculture on water quality and quantity.

Spring.

**WATER 411. Agriculture-Water Nexus Field Experience. 1 Credit.**

This course uses different forms of agriculture, variations in physiography, and differences in water resource systems to provide students with a greater understanding of the relationships between agriculture and water. Students and faculty will explore the nexus of agriculture and water through case studies of the water/agriculture connection across Wisconsin. The field course stops will leverage ongoing quality monitoring and research projects and will engage students with agricultural and resource management professionals and producers working to mitigate the impacts of agriculture on water quality/quantity Wisconsin. Course is repeatable for credit; may be taken 3 times for a total of 3 earned credits.

Fall and Spring.

**WATER 444. Aqueous Geochemistry. 3 Credits.**

This class will explore the theory and application of aqueous geochemistry principles to the study of surface and groundwater systems at low to moderate temperatures. The class will focus on inorganic processes including the hydrologic cycle, chemical weathering, chemical activities in natural waters, thermodynamics, kinetics, acid/base equilibria, carbonate chemistry, acid water systems, heavy metals, and redox reactions.

P: GEOSCI 202, CHEM 211 & CHEM 212

Fall Even.

**WATER 491. Senior Thesis/Research in Water Science. 3 Credits.**

A project-based capstone experience where individual students address a specific aspect of water science through the use of scientific and mathematical skills.

P: Senior standing, Math 260 with C or better, instructor consent. REC: Geoscience/Env Sci 432, Water 330, or other appropriate course depending upon focus of thesis project

Fall and Spring.

**WATER 492. Special Topics in Water Science. 1-4 Credits.**

Topics not covered by regular courses, such as geochemistry of natural waters, stream ecology, hydrology, hydrogeology, and others. Offerings of different topics can be repeated for credit.

**WATER 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**WATER 496. Project/Research Assistantship. 1-6 Credits.**

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

**WATER 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings. All internships must be taken P-NC. Course is repeatable for credit.

**WATER 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript. Course is repeatable for credit.

P: fr or so st with cum gpa > or = 2.50; or jr or sr st with cum gpa > or = 2.00.

Fall and Spring.



# Writing Foundations (WF)

## Courses

### **WF 93. Fundamentals of Writing. 3 Credits.**

A course designed to prepare students for WF 100 and other courses requiring college-level writing. Emphasis on the recursive process of organizing, writing, and revising short essays. Covers basics of research and of integrating source material into the student's essays. Issues related to punctuation, grammar, and syntax handled on an individual basis as needed. Offered on a pass/no credit, non-degree-credit basis only.

### **WF 100. First Year 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.

Fall and Spring.

### **WF 105. Research and Rhetoric. 3 Credits.**

Further instruction and practice in the rhetorical techniques and types of writing covered in WF 100, 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: WF 100, or WF 164, or ACT English score of 25 or higher, or SAT Reading score of 32 or higher

Fall and Spring.

### **WF 164. First Year Writing 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.

### **WF 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

### **WF 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: WF 100 OR WF 164, OR ACT English score of 25 or above, OR SAT Reading Test score of 32 or above

Fall and Spring.

# Women's Studies (WOST)

## Courses

### **WOST 102. Women's Voices. 3 Credits.**

An introductory and interdisciplinary course drawing upon diverse texts and methodologies representative of arts and humanities disciplines. Students will examine multicultural texts ranging from literature, feminist theory and analysis, philosophical reflection, historical accounts, letters, diaries, memoir, cultural critique, visual arts, film, and others to build an understanding of the multiple scholarly approaches to the study of women's lives.

Fall and Spring.

### **WOST 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

### **WOST 201. Introduction to LGBTQ Studies. 3 Credits.**

This course will provide an introduction into Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ) Studies. Considering LGBTQ Studies as an interdisciplinary field, this course will focus on how the central concepts of sexual orientation and gender identity work within history, politics, literature, technology, art, music, philosophy, education, and psychology. Throughout this course, students will work towards a deep understanding of the intersectional dynamics of privilege and oppression as they relate to LGBTQ individuals and culture by exploring the lived experiences of LGBTQ individuals and their families.

### **WOST 203. Gender in Popular Culture. 3 Credits.**

In this course, we will examine the ways that women and gender have been portrayed and are currently portrayed through the media, television and movies, popular music, internet, periodicals, popular fiction, newspapers, and other cultural artifacts. With readings ranging from critical theory to popular fiction, we will speculate on the impact of and sources for popular portrayals of women, in particular, and the social construction of gender, race, sexuality, and other social categories. The course will also encourage students to question agency in the creation and consumption of mass culture. Issues of race, class, sexual orientation, gender identity, age, and physical ability will be important as we explore and critically examine the forms and functions of popular culture.

Fall and Spring.

**WOST 241. Introduction to Women's, Gender, and Sexuality Studies. 3 Credits.**

Interdisciplinary introduction to the study of gender and sexuality, including identity and expression; the influence of gender on social institutions and structures; and an intersectional examination of women, men, and LGBTQ+ lives in the United States historically and today.  
Fall and Spring.

**WOST 247. Latin American and Latina Women. 3 Credits.**

This course will examine the lives and literary works of Latin American and Latina women within Latin American society and in the US. Particular attention will be given to the roles assigned to these women by patriarchal cultures and to the stereotypes that have influenced their lives. This course will examine how Latin American and Latina women have resisted race, class and gender oppression. The complex relationships among these factors and ethnicity will be examined through the analysis of a variety of primary texts, films, and scholarly articles.

**WOST 250. Introductory Topics in Women's, Gender, and Sexuality Studies. 3 Credits.**

Explores a single introductory topic in Women's, Gender, and Sexuality Studies in the instructor's area of expertise. Variable content. Course is repeatable for credit if topics differ. May be taken up to 3 times for a total of 9 credits.

**WOST 299. Travel Course. 1-6 Credits.**

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

**WOST 350. Topics in Women's, Gender, and Sexuality Studies. 3 Credits.**

Explores a single theme in Women's, Gender, and Sexuality Studies scholarship from an interdisciplinary perspective and includes High Impact Practices. Variable content. Course is repeatable for credit if topics differ; may be taken 3 times for a total of 9 credits.

P: None. REC: WOST 241

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: WOST 241

Spring Even.

**WOST 495. Teaching Assistantship. 1-6 Credits.**

The student and supervising teacher must prepare a statement that identifies the course with which the assistantship will happen, objectives for the assistantship, and expectations in order to fulfill the course objectives. Students are not eligible to receive credit in both the course they assist the instructor with and the teaching assistantship in the same semester. Typically student has previously taken the course prior to enrollment in the assistantship. Course is repeatable for credit.

Fall and Spring.

**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. Course is repeatable for credit.

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

**Kesab Adhikari**; Assistant Teaching Professor; Ph.D., Syracuse University

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

**Tanim Ahsan**; Associate Professor; Ph.D., Marquette University\*



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## B

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## C

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**Banda Fernando Cano**; Assistant Professor; D.Eng., Hiroshima University

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## D

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## E

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## G

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**Jennifer Graef-Downard**; Assistant Professor; Ph.D., Oklahoma State University

**Thomas Gretton**; Assistant Professor; Ph.D., Florida State University\*

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

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

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## H

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**Christopher Houghton**; Assistant Teaching Professor; Ph.D., University of Wisconsin - Milwaukee

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## I

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**Md Shahidul Islam**; Assistant Professor; Ph.D., University of South Alabama

## J

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**Kevin Jaklin**; Assistant Teaching Professor; M.B.A., University of Wisconsin - Oshkosh

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**Myunghee Jun**; Associate Professor; Ph.D., Seoul National University

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**Synde Krause**; Associate Teaching Professor; M.A., Saginaw Valley State University

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**Kerry Kuenzi**; Associate Professor; Ph.D., University of Colorado\*

**Sampath Kumar**; Professor; Ph.D., University of Memphis\*

**Eu Jin Kwak**; Assistant Professor; Ph.D., University of Georgia\*

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**Mary Sue Lavin**; Director of Phuture Phoenix; M.A., Marian University

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**Hanh Hoang Le**; Assistant Professor; Ph.D., Louisiana Tech University

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

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**Elizabeth Leon**; Assistant Professor; Ph.D., University of Nevada - Las Vegas\*

**Kelly Leon**; Assistant Professor; Ph.D., University of San Diego

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

**Qiyang "Cliff" Lian**; Assistant Professor; Ph.D., University of Kansas

**Jenna Liphart-Rhoads**; Assistant Professor; Ph.D., Capella University\*

**Qiushan Liu**; Assistant Professor; Ph.D., Florida State University

**James Vincent Lowery**; Associate Professor; Ph.D., University of Mississippi

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

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**M**

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

**Kaoime E Malloy**; Professor; M.F.A., University of Iowa

**Shawn Malone**; Assistant Professor; Ph.D., University of Iowa\*

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

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

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## N

**Anup Nair**; Assistant Teaching Professor; M.B.A., Birla Institute of Technology and Science (India)

**Misty Neal**; Assistant Teaching Professor; M.B.A., Albany State University

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

**Heidi Neverman**; Assistant Teaching Professor; M.S.N., University of Mary

**Md Tarique Newaz**; Assistant Professor; Ph.D., Texas Tech University\*

**Kiel Nikolakakis**; Assistant Teaching Professor; Ph.D., University of California - Santa Barbara

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

## O

**Megumi Onoda**; Associate Professor; M.S., Southeastern Louisiana University

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## P

**Aniruddha Pangarkar**; Associate Professor; Ph.D., Texas Tech University\*

**Ray Parth**; Assistant Professor; Ph.D., DePaul University\*

**Cheryl Passel**; Assistant Professor; Ph.D., Marian University

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

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

**Dylan Polkinghorne**; Assistant Teaching Professor; M.S., University of Wisconsin - Green Bay

**Deborah Popham**; Professor; Ph.D., Arizona State University

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

**Kristopher Purzycki**; Assistant Professor; Ph.D., University of Wisconsin - Milwaukee

## R

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