MAJORS AND MINORS OFFERED AT UW-PLATTEVILLE

The index, which follows, provides a listing of majors and minors offered at UW-Platteville. More detailed information is given on each major, minor and various emphases in the colleges portion of this catalog.

A complete listing of majors and minors approved for teaching licensure can be found under the School of Education.

Majors

Accounting
Agribusiness
Agricultural Education
Animal Science
Art – Fine Arts
Art – Graphic Design
Art Education
Biology
Broad Field Science
Business Administration
Chemistry
Civil Engineering
Computer Science
Criminal Justice
Electrical Engineering
Elementary Education
Engineering Physics
English
Environmental Engineering
Environmental Horticulture
Foreign Language
(German and Spanish)
Forensic Investigation
Geography
Health and Human Performance
History
Individually Contracted Major
Industrial Engineering
Industrial Technology Management
International Studies
Mathematics
Mechanical Engineering
Media Studies
Microsystems and Nanotechnology
Music
Philosophy
Political Science
Psychology
Reclamation, Environment and Conservation
Social Sciences Comprehensive-Teaching and Non-teaching
Software Engineering
Soil and Crop Science
Sustainable and Renewable Energy Systems
Technology Education
Theatre – Fine Arts

Minors

Accounting
Agricultural Business
Agricultural and Industrial Engineering Technology
Animal Science
Art – Fine Arts
Biology
Biotechnology
Building Construction Management
Business Administration
Chemistry
Computer Integrated Manufacturing
Computer Science
Creative Writing
Criminal Justice
Drafting/Product Development Technology
Early Childhood
English
English – Secondary Education
Environmental Horticulture
Environmental Science
Entrepreneurship
Ethnic Studies
Film and Media Studies
Food Marketing
Forensic Investigation
French
French – Secondary Education
Geography
Geographical Information Systems
Geology
German
German – Secondary Education
Health Education
History
History – Secondary Education
Industrial Control Systems Technology
Interdisciplinary Studies
International Studies
Journalism
Language Arts
Latin American Studies
Marketing and Visual Communication
Mathematics
Mathematics – Middle Education
Mathematics – Secondary Education
Metals Processing Technology
Microsystems and Nanotechnology
Music
Music – Theatre
Natural Science
Occupational Safety Management
Philosophy
Photography
Physics
Physics – Secondary Education
Plastics Processing Technology
Political Science
Production and Manufacturing Management
Psychology
Public Relations
Renewable Energy
Social and Environmental Justice
Social Media
Social Science (Comprehensive)
Sociology
Soil and Crop Science
Spanish
Spanish – Secondary Education
Special Education/Inclusion
Speech Communication
Teaching English as a Second or Other Language
Theatre – Fine Arts
Theatre Performance
Theatre – Secondary Education
Video and Audio Production
Web Development
Women's and Gender Studies
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GENERAL CATALOG INFORMATION

About this Catalog
The UW-Platteville ONLINE catalog represents the most accurate reflection of curricula and policies available up to the time of printing. All students matriculating at the university follow the guidelines and academic requirements espoused by this document, unless they are interrupted by time away from the institution. Students whose attendance is interrupted for at least one semester may be expected to meet the curricular requirements in effect at the time of their return. Students follow the requirements of the catalog in effect at the point of admission. Students transferring from another UW institution follow the guidelines in effect at the point of admission to the UW System. This practice could be affected by a variety of situations, such as collegiate or departmental curricular changes, absence for several semesters or terms and other circumstances. Students must decide to choose between the requirements of one catalog or another; they may not choose to combine catalogs.

Individual departments make announcements concerning changes in degree requirements. Students should remain in contact with their advisors to keep informed about their degree requirements and any possible changes that should occur.

As a reminder, this ONLINE catalog is not a contract, but represents announcements of general information, general academic regulations and the university’s academic programs extent at the date of publication. Questions concerning the ONLINE catalog may be directed to your advisor, departmental offices or the Registrar’s Office.

Equal Opportunity/Affirmative Action
UW-Platteville is an Equal Opportunity/Affirmative Action institution. In compliance with relevant federal and state civil rights legislation, the university does not discriminate on the basis of age, race, creed, color, handicap, sex, sexual orientation, developmental disability, national origin, ancestry, marital status, arrest record or conviction record.

Inquiries related to Equal Opportunity/Affirmative Action issues may be directed to the Office of Affirmative Action/Personnel.

Accreditation
UW-Platteville is accredited by:
- Foundry Education Foundation
- Higher Learning Commission – 312.263.0456
  www.ncahigherlearningcommission.org
- National Council for the Accreditation of Teacher Education (NCATE)/Council for the Accreditation of Educator Preparation (CAEP)
- National Association of Industrial Technology
- National Association of Schools of Music
- Wisconsin Department of Public Instruction

The following engineering degree programs are accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.
- Civil Engineering
- Electrical Engineering
- Engineering Physics
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering
- Software Engineering
Chemistry is accredited by the American Chemical Society.

UW-Platteville is a member of:
- American Council on Education
- American Association of Colleges for Teacher Education
- American Association of University Women
- American Association of Higher Education
- American Association of State Colleges and Universities
- College Entrance Exam Board
- Council of Higher Education Accreditation
- Council for the Advancement and Support of Education
- Fulbright Association
- International Association of University Presidents
- North Central Association of Colleges and Schools
- Wisconsin Women in Higher Education Leadership
- Wisconsin Association of Collegiate Registrars and Admissions Officers
- Wisconsin Institute for Peace and Conflict
ABOUT UW-PLATTEVILLE

UW-Platteville is one of 13 publicly supported comprehensive universities in the UW System. Founded in 1866, UW-Platteville is the oldest public institution in the state of Wisconsin, and is considered one of the safest campuses in the nation. We are proud of our students’ contribution to the safety record, their pursuit of academic excellence and the leadership they continually demonstrate throughout the state, region and nation. As our nickname implies, our UW-Platteville “Pioneers” have created the very foundation for which we are known. Our leadership in the Colleges of Business, Industry, Life Science and Agriculture; Engineering, Mathematics and Science; and Liberal Arts and Education helps students build on the foundation of strong values, commitment to excellence, leadership for a stronger world and a knowledge of technology which prepares them for life in the 21st century. We encourage you to visit our home page at www.uwplatt.edu.

Our Mission
The fundamental mission of UW-Platteville and the entire UW System is to serve the people of Wisconsin. This basic goal is expressed in detail in the mission statement adopted in 1988 and revised in 2002. In those statements, UW-Platteville pledges itself to:

1. Enable each student to become broader in perspective, more literate, intellectually more astute, ethically more sensitive and to participate wisely in society as a competent professional and knowledgeable citizen
2. Provide baccalaureate degree programs which meet primarily regional needs in arts and sciences, teacher education, business and information technology
3. Provide baccalaureate degree programs and specialized programs in middle school education, engineering, technology management, agriculture and criminal justice which have been identified as institutional areas of emphasis
4. Provide graduate programs in areas clearly associated with its undergraduate emphases in education, agriculture, technology management, engineering and criminal justice
5. Provide undergraduate distance learning programs in business administration and graduate online programs in project management, criminal justice and engineering
6. Provide agricultural systems research programs utilizing the Pioneer Farm in partnership with businesses, universities and agencies
7. Expect scholarly activity, including applied research, scholarship and creative endeavor, that supports its programs at the baccalaureate degree level, its selected graduate programs and its special mission
8. Seek to serve the needs of all students and in particular the needs of women, minority, disadvantaged and nontraditional students. Furthermore, the university seeks diversification of the student body, faculty and staff
9. Serve as an educational, cultural and economic development resource to southwestern Wisconsin

These statements, along with the UW System and University Cluster mission statements, provide a guide to UW-Platteville in what it attempts and does not attempt to accomplish as an institution of higher education.

Faculty and Academic Staff
The first priorities of UW-Platteville’s faculty are teaching and advising. Students benefit from direct contact with faculty; all classes are taught by faculty and academic staff members. The student to instructor ratio is approximately 18 to 1. Of a faculty of 417, approximately 65 percent hold doctorates or terminal degrees. Among full-time faculty, 90 percent have terminal degrees. A complete listing of our faculty and academic staff can be found in the back of this catalog.

Students
Students attending UW-Platteville are from all parts of Wisconsin, from surrounding states and from other countries. Enrollment for fall 2012 was approximately 8,000 students. Nearly 90 percent of students are undergraduates. Some 3,300 students live in 11 campus residence halls. Nearly 76 percent of students are Wisconsin residents, and 20 percent are enrolled through the Tri-State Initiative. Students actively participate in the governance process at UW-Platteville. There are incredible opportunities for involvement through membership in the more than 200 student clubs and organizations.

Safety and Health Policy
The UW System is committed to maintaining adequate facilities for a safe and healthy learning environment. The university works with faculty and staff so that they are equipped to educate their students on practices and procedures that ensure compliance with safety laws and regulations in their institutional areas.

Certain courses and research projects require that students work with hazardous materials while engaging in academic studies. Instructors of these courses and research projects must inform and train students on procedures that will maintain the students’ personal health and safety and provide them with information on the hazards of specific chemicals that will be used during their course of study. Furthermore, instructors must enforce and follow safety policies. Prior to use of hazardous materials and equipment, students shall review the procedures and information, and discuss any associated concerns with the instructor.

Facilities
The main campus of UW-Platteville is located in the southwest quadrant of the city of Platteville.

Spanning over 330 acres, the main campus includes over 30 buildings in a park-like setting. Over the last decade, there has been extensive facility development on the campus. New buildings since 1997 include the Children’s Center, the Markee Pioneer Student Center, the greenhouse and adjacent gardens, Southwest Hall, Roundtree Commons and Engineering Hall.
Additionally, there have been major renovations to Doudna Hall, Russell Hall, Pioneer Tower, Ullrict Hall, the Art Building, Ullsvik Hall and Glenview Commons. There have also been extensive improvements in athletic and recreational facilities, including Ralph E. Davis Pioneer Stadium, the outdoor track and field facility, and the softball and baseball fields. A significant feature of the university campus is the Center for the Arts. The 556-seat concert hall is known for its excellent acoustics. There is also a 200-flexible seat theater and rehearsal halls in the facility. The center is home to the award-winning Performing Arts Series and the summer Heartland Festival.

Pioneer Farm, located about five miles southeast of the city of Platteville, is the university's 450-acre systems research and education facility. Pioneer Farm features newly constructed buildings, including the Agriculture Technology Center, the Cooper Living and Learning Center, the Swine Center and the Dairy Center. The farm enterprise includes dairy, swine and beef herds plus corn, soybean and alfalfa cropping. Pioneer Farm is a key component of the Wisconsin Agricultural Stewardship Initiative, a statewide collaboration between producers, state government and the UW System to evaluate best management practices in Wisconsin and form policies based on practices that will enhance the environment and produce a profit for the producer. Pioneer Farm has developed to provide agricultural and environmental research in a production setting representative of Southwest Wisconsin and the Upper Mississippi Basin loess hills.

UW-Platteville also has facilities which can transmit or receive full motion or compressed video to or from anywhere in the world. One facility, a permanent distance education classroom in Ottensman Hall, is used primarily by the College of Engineering, Mathematics and Science, and another is used within Pioneer Tower by the College of Business, Industry, Life Science and Agriculture. A third facility is at the Pioneer Farm.

The Platteville Community

The Greater Platteville area, with a population approximating 25,000 people, is located in scenic Southwest Wisconsin. Platteville is served by U.S. Highway 151, a four-lane expressway that connects Cedar Rapids, Iowa, to Fond du Lac, and State Highways 80 and 81. Platteville is located in Wisconsin's Driftless Area and is surrounded by gently rolling hills and beautiful farm country. The city has an historic Main Street and extensive retail opportunities both downtown and near the east-side expressway exit. Additionally, the city has excellent medical facilities, a bustling industry park and several quickly developing housing areas. Residents and visitors enjoy 16 city parks, which include over 200 acres of open space, the city's art gallery and museums, playgrounds, baseball and softball diamonds, biking and hiking trails, a skate park, picnic shelters, an arboretum and an outdoor aquatics center.

The city and university join together to offer local residents events and activities such as the Heartland Festival and Performing Arts Series, Homecoming and the lighting of the "M." More information about university events can be found on UW-Platteville’s home page (www.uwplatt.edu). Information about places to stay in Platteville can be found at www.uwplatt.edu/contact/lodging.html or by calling the Platteville Area Chamber of Commerce at 608.348.8888.

History

UW-Platteville has a long, rich history. It was founded in 1866 as the first state teacher preparation institution in Wisconsin, then called the Platteville Normal School. Classes were held in Rountree Hall, located at the corner of Main and Elm streets. Rountree Hall was actually built 13 years earlier in 1853 to accommodate the rapidly increasing enrollment of the Platteville Academy, founded in 1839 (even before Wisconsin's statehood) by the city's Presbyterian Church.

The university also has roots in the Wisconsin Mining Trade School, established in 1907 to train specialized technicians to work in the mining operations surrounding Platteville. When the Normal School vacated Rountree Hall for its new quarters in Main Hall, the mining school moved in. In 1917, a third year was added to the curriculum, making the Wisconsin Mining School the first school in the United States to offer a three-year course in mining engineering, upon completion of which a student received a diploma.

One of the university's oldest traditions originated in the year 1936 when the mining school students began work on the "Big M" by placing rocks in a pattern on the southwest slope of the mound, located a few miles east of the city. Completed the following year, the "Big M" measures 214 x 241 feet and consists of some 400 tons of whitewashed stone. The lighting of the "Big M" is now a tradition at UW-Platteville and is the featured ceremony each fall during Homecoming weekend.

The mining school became the Wisconsin Institute of Technology in 1939 and later merged with the Platteville State Teachers College in 1959 to become the Wisconsin State College and Institute of Technology at Platteville.

During the 1960s, the college experienced a period of rapid growth resulting in the construction of several new halls. In 1966, the name was changed again to the Wisconsin State University-Platteville. The university and all other public institutions of higher education in Wisconsin merged in 1971 to form the UW System, governed by a single Board of Regents. As a result of the merger, the university experienced its most recent name change to the University of Wisconsin-Platteville.

From its beginning in 1866, the university has grown tremendously. Current enrollment is approximately 7,500, making UW-Platteville large enough to provide diversity, yet small enough to assure students that they are more than just numbers.

The University Seal and School Colors

The university seal displays two symbols rooted in the school's beginning. The bell reminds us of the Platteville Normal School where it woke the students each morning, calling them to daily assembly, sounded study hours and signaled the day's end. The Normal School bell can still be heard on campus today. The "M" originates from the Wisconsin Mining School and symbolizes the engineering programs and their roots in the mining industry of the Platteville area.

The school colors represent the two academic disciplines which were the foundation of our university: orange symbolizes engineering, and blue symbolizes education.
To All Applicants
This section provides general admission information for degree-seek ing and special students. Professional development courses or courses for personal enjoyment can be found in the Continuing Education section.

Those who intend to earn a degree or become a special student must apply for admission to the university. The preferred method to apply electronically, but paper applications are available through the Office of Admission. Please see the UW-Platteville home page at www.uwplatt.edu/admission for specific instructions.

If degree-seeking applicants know the field of study they intend to pursue, they may indicate that choice on the application. If applicants are still deciding, they may indicate undecided as their choice. Some majors require additional standards for admission.

Special notice: All applicants must provide the university with accurate information about personal and educational history. Students who intentionally falsify or omit information, as part of their university record will be suspended.

Admission Categories
Admission procedures and standards vary somewhat from group to group. The following is a definition of each category. Locate the appropriate category, then find the subsection which discusses that category for information needed in order to be admitted to UW-Platteville.

New Freshmen Students:
Graduates of high schools in the United States and those who will be graduating. International students who wish to enter as freshmen should refer to the international student admission section of this chapter.

Transfer Students:
Applicants who have a minimum of 12 earned college credits at another university, vocational or technical college as a matriculated student and wish to transfer to UW-Platteville.

Re-entry Students:
Students who have attended UW-Platteville as degree-seeking students in the past and wish to take classes again at the university.

Nontraditional Students:
Students who are defined in the Board of Regents Policy (87-8) Non-Traditional Admission will be considered according to the criteria under UW-Platteville’s comprehensive review policy.

Special Students:
Students who wish to further their education, but are not immediately seeking a degree from UW-Platteville. Students in this category are ineligible for financial aid.

High School Special Students:
Students currently enrolled in high school who apply to UW-Platteville for concurrent coursework.

Youth Options Students:
High school students who wish to take university courses under the youth option program receive approval through their school district.

Course Options Students:
High school students who wish to take university courses under the course options program and receive approval through their school district.

International Students:
Students who enroll at UW-Platteville under an educational visa.

New Freshmen Students:
All new freshmen must complete a UW System application and submit it to the Office of Admission and Enrollment Services to begin the admission process. An official high school transcript from school of graduation and official ACT or SAT score reports are also required.

Admission Guidelines
Students meeting the following requirements will be considered for admission:

- Successfully completed 17 college preparatory units to include:
  - 4 units English
  - 3 units mathematics (algebra, geometry, and higher)
  - 3 units social science
  - 3 units natural science (two must include lab experiences)
  - 4 units to include courses from the above academic areas, foreign language, fine arts, computer science or courses in vocational areas
  - In top 50 percent of graduating class, ACT composite of 22 or SAT1030. Consideration will also be given to factors such as stronger academic performance later in high school, demonstrated leadership skills in school or community, and personal statements and recommendations.
  - Students seeking immediate admission to general engineering must have a minimum mathematics ACT score of 22 or SAT score of 520. Engineering students not meeting these minimum mathematics requirements will be placed in pre-engineering until completion of Calculus and Analytic Geometry with a letter grade of “C” or higher.
• UW-Platteville uses standardized test results as one of the criteria measures for admission. The UW System requires all new freshmen applicants to submit the results of either the ACT or SAT for review. The ACT is the preferred test. Students will not be disadvantaged in the admission process by taking one test rather than the other. It is recommended that the ACT/SAT be taken in the spring of the junior year of high school and that the score reports be sent directly to the Office of Admission and Enrollment Services. This requirement is waived for prospective students over the age of 25.

Students meeting the following requirements may be considered for admission:

• Successfully completed 17 college preparatory units
• In top 65 percent of their graduating class and have an ACT composite score of 18 (870 SAT) or higher
• Letters from high school faculty in areas of English, mathematics and laboratory science courses may be required and must address the student’s success potential in college coursework

UW-Platteville will also consider the following factors in a comprehensive review:

• Students who have demonstrated a stronger academic performance later in their high school career
• Students who are socially and economically disadvantaged
• Students who have demonstrated academic promise
• Nontraditional students (25 and older)
• Students who have demonstrated significant leadership in school or in the community
• Students who are historically underrepresented

Students denied or not meeting the admission guidelines may contact the director of Admission and Enrollment Services for an independent review of all credentials.

**Home School Student Admission Procedures**
To be considered for admission, home school students must provide the following:

• Official transcripts from school(s) attended
• Transcript from courses taken at home and grades, signed by the parent providing the education verifying the curriculum
• Official ACT/SAT score reports
• Other information related to the student’s education

**Note:** Admission policies vary based on the graduation date of applicants; i.e., a student who graduated in 1985 would fall under the admission policies effective for the fall 1985 semester.

**Re-entrant Students:**

• Students who voluntarily interrupt university work while in good standing may be granted admission upon completion and submission of the UW System application to the Office of Admission and Enrollment Services.

**Special Students**
In order to be enrolled as a special non-degree student, the applicant must complete the online special student application or a paper application from the Office of Admission. Although transcripts are not required, prospective students are required to have graduated from a recognized high school or its equivalent. Students who, after having been a special student, wish to seek a degree must complete the admission process for degree-seeking students and matriculate before they have earned 30 semester credits as a special student. It is important to note that special students may not register for more than six semester credits per semester unless authorized by the Registrar’s Office or the provost. Students enrolled as a special non-degree student are ineligible for financial aid.

**High School Specials**
The UW-Platteville admission application for High School Special students is available online at www.uwplatt.edu/admission or through the Office of Admission. An official high school transcript is required, and a letter of support from the counselor or principal is encouraged. In order to be considered as a high school special, a student must comply with the following:

• Seniors must be in the top 50 percent of their class or have an ACT composite of 22 (SAT I of 1030)
• Juniors must be in the top 10 percent of the class or have scored in the top 10 percent in one or more of the nationally recognized admission examinations (ACT, SAT I)
• Must have the sanction of the high school principal or counselor (in writing to the Office of Admission and Enrollment Services)

Each high school student aspiring to attend university classes may take three semester credits per semester. Certain students may elect to take up to, but no more than, six credits per semester upon the approval of the Office of Admission and Enrollment Services. It is to be understood that each high school student wishing to attend classes at UW-Platteville must reapply each semester.
High School Youth Options and Course Options
The UW-Platteville admission application for High School Youth Options and Course Options students is available online at www.uwplatt.edu/admission or through the Office of Admission. In addition to the application, a student must supply the Office of Admission with the appropriate Department of Public Instruction form and official high school transcript. In order to be considered for high school Youth Options or Course Options, a student must comply with the following:

- Seniors must be in the top 50 percent of their class or have an ACT composite of 22 (SAT I of 1030)
- Juniors must be in the top 10 percent of the class or have scored in the top 10 percent in one or more of the nationally recognized admission examinations (ACT, SAT I)

International Students
International undergraduate students receive a warm welcome at UW-Platteville. In admitting international students, the Admission Office considers factors such as scholastic achievement, English language proficiency and evidence of sound financial backing through parents, governmental agencies or other sources. It is highly recommended that applications for the fall semester be completed no later than June 1 and that applications for the spring semester be completed no later than November 1.

Admission Guidelines
To be considered for admission to UW-Platteville, international students must provide the following:

- International student application, including non-refundable application fee
- Academic records, confirming secondary and/or university education, mailed directly from the school attended to the Admission Office. Academic records must be in the original language with a certified English translation and should include the dates of attendance, level of study, list of subjects, school leaving marks/grades earned, grading system used and record of certificate, diploma or degree earned
- Evidence of proficiency in English: 500 paper based, 173 computer based, 61 Internet minimum on TOEFL or 5.5 minimum on the IELTS submitted directly from the testing agency to the Admission Office
- Affidavit of financial support, documenting ability to meet all financial obligations for duration of study at UW-Platteville, signed by parent, sponsor or governmental agency

International students who have completed university credit at institutions outside of the United States must, at their own expense, submit their records for a catalog match evaluation to Educational Credential Evaluators Inc. (www.ece.org) prior to enrolling in classes at UW-Platteville.

Special note for international transfer students: International students currently studying in the U.S. who seek to transfer to UW-Platteville must provide a Transfer Clearance Form, completed by the designated school official at their current school. International students transferring from U.S. colleges or universities may demonstrate competence in English through courses taken at such institutions when grades of “B” or higher have been earned in English composition courses and speech. The International Student Transfer Clearance form can be found online at www.uwplatt.edu/intprog/international/files/transferclearance.pdf.

English Language Program
The English Language Program prepares students to apply their English skills successfully in university courses and professional settings. ELP offers year-round English immersion courses to non-native English speakers. Students will become effective communicators in English and accomplish a wide variety of academic tasks. Upon completion of the ELP, students will be prepared to study at an academic institution.

The ELP offers courses at three levels of English proficiency from intermediate to advanced II and provides instruction for those who wish to strengthen their English skills for personal or professional reasons or to meet the requirements for degree study at UW-Platteville. Advanced ELP level students can also enroll in university academic courses.

Priority deadlines for submitting an ELP application is June 1 for the fall semester, November 1 for the spring semester and April 1 for the summer session.

To be considered for admission to the UW-Platteville ELP, international students must provide the following:

- ELP application for admission, including non-refundable application fee
- Academic records, confirming secondary and/or university education, mailed directly from the school attended to the Admission Office. Academic records must be in the original language with a certified English translation and should include the dates of attendance, level of study, list of subjects, school leaving marks/grades earned, grading system used and record of certificate, diploma or degree earned
- Original English proficiency test score (Minimum English proficiency required for admission to the ELP is 45 iBT TOEFL, 450 PBT TOEFL, or 4.5 IELTS. Scores must be submitted directly from the testing agency to the Admission Office
- Original UW-Platteville Financial Verification Form, documenting ability to meet all financial obligations for duration of study at UW-Platteville, signed by parent, sponsor or governmental agency
- Original bank statement
- Copy of the applicant’s passport (including dependents)

Tri-State Initiative
UW-Platteville is assisting the tri-state region to develop its workforce. The Tri-State Initiative has increased the number of students from the neighboring states of Illinois and Iowa attending and graduating from UW-Platteville. TSI is assisting new and continuing Wisconsin and tri-state businesses in addressing critical workforce needs.

The initiative has had a transforming effect on the campus and community. The initiative features competitive pricing with other tri-state institutions when annual tuition, fees, room, board and books are included. Tuition monies from the students who enroll as a part of the initiative remain at UW-Platteville, paying for increased faculty and staff, program development, new academic buildings and residence halls.

Learn more about TSI by visiting www.uwplatt.edu/admission/tristate.
TRANSFER POLICIES

Transfer Students

Transfer students must complete a UW System application and submit it to the Office of Admission and Enrollment Services to begin the admission process. Official high school transcripts from schools of graduation and from ALL colleges or universities previously attended or currently attending are also required. These documents must be sent directly from the high school or Office of the Registrar. Applicants are required to provide the Office of Admission and Enrollment Services with a statement of activities (work, armed services, etc.) for the period of time they have chosen not to attend a college or university for a semester or more.

Admission Guidelines

All applications receive a comprehensive review. Academic preparation is the primary criteria used in the admission review process. Transfer students meeting the following requirements will be considered for admission if they have a cumulative grade point average (C.G.P.A.) of 2.00 or higher in college transfer courses and are in good academic standing at the institution they are currently attending or have attended.

Applicants must have 12 or more transferable credits from an accredited institution to be considered for admission as a transfer student. Applicants with fewer than 12 credits must meet new freshmen admission requirements.

These policies are subject to enrollment management concerns, reviewed periodically and may be changed according to the needs of the university. Enrollment will be managed according to the university caps determined by university officials, UW System and the Board of Regent mandates. Furthermore, university enrollment caps may be determined by college/program specific needs and by specific student categories.

Transfer of Credits

Evaluation of a student's credits will occur only after the student's file is complete (i.e., when all transcripts, enrollment deposit and other pertinent information has been received by the Office of Admission and Enrollment Services). The cumulative G.P.A. of all schools attended will be calculated by using all courses completed that are transferable to UW-Platteville. Admission will be determined based on the student's cumulative G.P.A. meeting the minimum admission requirements and on the Enrollment Services policies at the time the student’s file becomes complete.

Credits may be accepted from all properly accredited four-year and two-year institutions recognized by the Council for Higher Education. Courses that are vocational, technical, remedial or doctrinal in nature are not transferable. The maximum number of credits transferable from a two-year institution is 72.

When credits are transferred and accepted, they are recorded in terms of UW-Platteville courses. Only credit is recorded, grades and/or grade points are not transferred.

The transfer policy discussed here is subject to enrollment management needs, which are reviewed periodically and may be changed according to the needs of the university.

Transfer of Associate Degrees from Specific Schools

Students transferring from a UW System institution or an Illinois community college with an earned associate degree in arts or sciences will have met all university general education requirements.

Students transferring from Madison Area Technical College and Nicolet Area Technical College with an earned Associate of Arts or Associate of Science degree granted on or after May 7, 2003, will have met all university general education requirements with the EXCEPTION of the ethnic and gender studies requirement. The two exceptions mean that these requirements will still need to be met by the transfer of specific courses satisfying the ethnic and gender studies areas or by completing the requirements through classes at UW-Platteville.

Students transferring from Milwaukee Area Technical College with an earned Associate of Arts (NOT the Associate of Science) degree granted on or after May 7, 2003, will have met all university general education requirements with the EXCEPTION of the ethnic and gender studies requirement.

Transfers from a Wisconsin Technical College

The number of credits accepted for transfer from a Wisconsin Technical College is generally limited. It is possible, in some cases, to transfer up to the maximum of 30 credits in general education courses. More credits may be accepted if program-to-program articulation agreements have been approved; check with the institution to see if this applies or call the Office of Admission and Enrollment Services at 1.800.362.5515.

Students transferring from the following Iowa Community Colleges with an earned Associate of Arts or Associate of Science degree granted on or after May 15, 2013, will have met all university general education requirements with the EXCEPTION of the ethnic and gender studies requirements. Hawkeye, Des Moines Area, Southeastern Iowa, Iowa Lakes, Iowa Valley, North Iowa Area, Iowa Central, Indian Hills, Western Iowa, Northwest Iowa, Southwestern Iowa, and Iowa Western.

Students transferring from Kirkwood Community College and Eastern Iowa Community College District with an earned Associate of Arts or Associate of Science degree granted on or after Dec. 3, 2008, will have met all university general education requirements with the EXCEPTION of the international education, natural
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science courses, each with a laborator
and EICCD with an
regard to
sciences, and ethnic and gender studies requirements. With
regard to the natural sciences, students transferring from KCC
and EICCD with an A.A. or A.S. degree must have natural
science courses, each with a laboratory, from two different areas.
These courses must be completed either at KCC or EICCD
prior to transfer to UW-Platteville or at UW-Platteville after the
student transfers. Students from KCC and EICCD will also need
to meet the international education, and ethnic and gender
studies requirements either by the transfer of courses meeting
these requirements or by completing them through classes at
UW-Platteville. If all of the coursework was not completed at
one of these recognized institutions, credits may not transfer
and the associate degree may not satisfy the general education
requirements. Articulations with other schools may also exist.

**Students transferring from Northeast Iowa Community College** with an earned Associate of Arts or
Associate of Science degree granted on or after Dec. 3, 2003,
will have met all university general education requirements with
the EXCEPTION of the ethnic and gender studies requirement.

**Other Transfer Credits**
Transfer credit is accepted for appropriate college-level courses
completed through extension or correspondence study from
accredited colleges or universities. Certain military service school
credit may be granted in transfer, based upon recommendations
by the American Council on Education.

**UW Colleges/UW-Platteville Guaranteed Transfer Program**
Students participating in the UW Colleges/UW-Platteville
Guaranteed Transfer Program may begin their university
education at a UW college and, if they meet the requirements
listed below, will be guaranteed admission to UW-Platteville
upon completion of 60 credits. Some majors and programs
make exceptions for the required number of credits; be sure to
to check with the department or program for which early transfer is
recommended.

To be eligible for the Guaranteed Transfer Program, students
must:

1. Have matriculated as a new freshman at a UW college
2. Submit a Declaration of Intention to participate in the
Guaranteed Transfer Program prior to the start of the
sophomore year (30 credits) in the UW Colleges
3. Complete the minimum number of credits required within
three years of the time of matriculation at the UW
Colleges. Complete and submit to UW-Platteville a UW
System Application for Admission. Students must submit
this application in accordance with the deadlines and
enrollment procedures imposed for all transfer students
and should note on the application their participation in the
Guaranteed Transfer Program
4. Maintain a minimum 2.00 cumulative grade point average
and a 2.00 in the term prior to transfer

UW Colleges students participating in the Guaranteed Transfer
Program must also meet the same criteria (e.g., G.P.A., course
requirements) for admission to specific programs as continuing
UW-Platteville students. The guarantee of admission applies only
to the institution, not to the specific major or program. Students
should consult an academic advisor to determine the required
G.P.A. for their intended major or program.

**Credit Evaluation**
Once the student has been admitted and the enrollment deposit
paid (the enrollment deposit will be applied to tuition costs for
the first term), a credit evaluation will be completed and available
to the student in PASS Self-Service and made available to
the college of the student’s major so that it is available for review
by an assigned advisor. The advisor or department chair will
determine which courses and credits may be transferred to
meet the requirements of the student’s declared major. In the
event that the student has not declared a major, the advisor for
undecided students will assist them in determining a course
schedule. All students are strongly encouraged to meet with
university advisors before transferring to ensure a smooth
transition.

**Academic Advising**
All transfer students should meet with their major advisor as soon
as possible. Students who have an earned associate degree from
another two-year institution or junior college will be individually
assessed regarding transfer credits. Transfer students should
remember that even when the university general education
requirements are considered met, other college or departmental
requirements may not have been met. During registration and
advising, the college of the student’s major will assign a faculty
member to serve as the student’s advisor. The advisor will have
a copy of both the transcript and credit evaluation and will be a
resource person for students to plan the courses they will need in
order to graduate. In addition, the student will have access to an
online UW-Platteville catalog during the registration and advising
process; it is an excellent source of information. Students should
take the responsibility for building their own plan for graduation.
Successful students work closely with their advisor throughout
their college careers. Advance registration for continuing students
takes place in the semester prior to enrollment and regular
registration takes place immediately proceeding the first week of
classes each semester. Details will be sent to students. Students
admitted after advance registration must contact the Office of
Admission and Enrollment Services for registration options and
details.

**May I pre-register?**
Transfer students may register with continuing students only if
they have been admitted, the evaluation of previous coursework
has been completed before the pre-registration date and the
enrollment deposit has been paid. Therefore, early application is
necessary for pre-registration.
CREDITS BY EXAMINATION OR REVIEW

Some students may be eligible to receive college credits based on their Advanced Placement or College Level Examination Program scores; still others may choose to take test-outs developed by individual departments on the UW-Platteville campus. In addition, most veterans are eligible to receive some advanced credit for their service.

Since many of the credits awarded by examination or review count toward the general education requirements, students should read both this chapter and the general education chapter of the catalog thoroughly before registering for courses.

Advanced Placement Examination
Credit and advanced placement may be granted to students who are accepted as matriculating students and who have participated in the Advanced Placement Examination Program. Students applying for UW-Platteville admission must arrange to have their Advanced Placement Examination score reports sent to UW-Platteville Office of Admission and Enrollment Services. Departments in the Colleges of Business, Industry, Life Science and Agriculture; Engineering, Mathematics and Science; and Liberal Arts and Education participate in the Advanced Placement Program.

### Advanced Placement and Credit

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<tr>
<th>AP Examination</th>
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<th>Course Name</th>
<th>Comments</th>
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College Level Examination Programs (CLEP)
The CLEP subject examinations and scores necessary for credit are listed below. More detailed information on individual tests may be obtained from the Academic and Career Advising Center at 608.342.1033.

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**Departmental Test-Outs and Waivers**

UW-Platteville offers numerous internally developed assessment methods for awarding credit. Department examinations or test-outs, and department waivers are the most common forms of establishing proficiency. While students may attempt to test out of many introductory courses, they should remember that test-outs are not offered for every course, or by every department.

Students having extensive training or significant practical experience may apply to the appropriate department chair for permission to begin the test-out process. Individual departments administer and begin the test-out process, evaluate tests for credit in a variety of ways and may charge for the evaluation. The following guidelines have been established regarding departmental evaluations:

1. Only students enrolled at UW-Platteville may participate in departmental test-out examinations.
2. Credit for such examinations with the appropriate departmental approval shall be entered on the student's permanent scholastic record.
3. Credit examinations, once failed, may not be repeated.
4. No student may take a credit examination in a course which is a prerequisite, stated or implied, for a more advanced course in the same subject for which credit has already been earned.

5. The maximum credit which may be earned by examination in any one field is determined by the academic department in which the test-out was taken.

6. A fee may be charged for administering examinations to students wishing to receive credit by examination. The fee may vary by program area and by student status (full time or part-time).

**Advanced Credit for Veterans**

Veterans who have served in the regular armed forces for more than one year will be allowed two credits in physical education. Veterans of two years’ service that included an overseas assignment may be allowed additional general elective credits. Credit may be allowed for specific courses in appropriate curricula recommended by the American Council on Education in A Guide to the Evaluation of Educational Experiences in the Armed Services. A Joint Services Transcript of military education may be requested online at https://jst.doded.mil. A student who completes a course but earns a grade that does not satisfy the minimum department or university requirement may not test out through department examination. Additional information is available from the Registrar’s Office.

### SCIENCE AND MATHEMATICS

<table>
<thead>
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<th>Category</th>
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**REGISTERING FOR AND TAKING COURSES**

This section provides an overview of UW-Platteville registration policies. More details and specific dates for registration and fee payment are available. Specific courses offered each term are available in the online class offerings. Students not on campus may view the list of upcoming course offerings on the Registrar’s home page (www.uwplatt.edu/registrar/).

**Advance Registration and Orientation for New Freshmen**

Registration for new freshmen takes place on the UW-Platteville campus during summer New Student Registration days. The day includes events for parents too. In recognizing that the usual procedure of placing a new student into a hectic fall registration can be unsettling and a bit bewildering, freshmen at UW-
Everyone at UW-Platteville wants students to be successful. For this very basic reason, a special registration program has been established for students and their parents. Each registration session is specifically designed to provide students with a solid foundation concerning their needs and those of their parents. The more students know, the better chance of success they will have in making a smooth transition from their current setting to student life at UW-Platteville. It is important that students and their parents take full advantage of these registration events.
Incoming freshmen are strongly encouraged to take part in the new student orientations that take place just before the beginning of classes. These special activities provide all new students with an opportunity to become acquainted with and to feel part of UW-Platteville’s campus and the local community. The activities are both social and informative. They include tours of the campus, assistance with class scheduling and picking up textbooks, visits with college deans and faculty, small group discussions and at least one all-student social event that brings together newcomers and returning students.

Registration for Continuing and Transfer Students

Continuing and transfer students should check with the Registrar’s Office or review the information at www.uwplatt.edu/registrar/.

Each student must meet with an assigned academic advisor before registering. Students may also wish to visit the department chair of their major to see what general education, major or minor requirements they have left to meet. Academic Requirement reports are available to students and advisors before advance registration begins. Students must meet with an advisor to fill out a worksheet listing their desired course schedule and receive a personal identification number to release the advising hold.

Students are assigned an advance registration appointment based upon the number of credits earned: those with the most credits earned (seniors) register first, followed by juniors, sophomores and freshmen. Courses fill on a first-come basis; therefore, students are encouraged to take advantage of advance registration.

Students who miss advance registration may still register during regular or late registration. Dates for these registration periods are also listed on the Registrar’s home page (www.uwplatt.edu/registrar/).

Policies Affecting Student Registration

Course Numbering

Students should look at a course’s number to determine the general difficulty level of the course and whether it will count towards their degree:

- 0000-0990 No credit toward graduation
- 1000-2990 Credit – lower level undergraduate
- 3000-4990 Credit – upper level undergraduate
- 5000-7990 Graduate level

Academic Load

During the fall and spring semesters, students who enroll for 12 or more credits during a semester are classified as full-time students; students who enroll for 11 or fewer credits are classified as part-time students. The normal load for full-time students is 15-16 credits per semester, but students on academic probation may carry no more than 14 credits without special permission. To remain eligible for most scholarships and financial aid programs, students must remain classified as full-time.

Students who have not completed remedial course requirements after earning 30 semester hours will be limited to 12 credits including the remedial course. Students in good standing, except those with less than a 2.00 G.P.A., who wish to enroll for an overload of more than 18 credits or students on academic probation who wish to enroll for more than 14 credits must obtain permission from their advisor. A student carrying credit in extension or by correspondence, either with this or another university, must include these credits in computing total load. The registrar, as an ex-officio member of the Admission and Academic Appeals Committee, has been delegated the responsibility for granting permission for overloads and exceptions to established guidelines. Appeals may be made to the committee or the assistant vice chancellor for academic affairs.

In granting permission for overloads, the committee normally follows these guidelines.

<table>
<thead>
<tr>
<th>Cumulative G.P.A.</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remedial not met after 1st year</td>
<td>12</td>
</tr>
<tr>
<td>Less than 2.00 (on academic probation)</td>
<td>14</td>
</tr>
<tr>
<td>Less than 2.00 (in good standing)</td>
<td>15</td>
</tr>
<tr>
<td>2.00-2.74</td>
<td>18</td>
</tr>
<tr>
<td>2.75-3.24</td>
<td>19</td>
</tr>
<tr>
<td>3.25-3.49</td>
<td>20</td>
</tr>
<tr>
<td>3.50-3.74</td>
<td>21</td>
</tr>
<tr>
<td>3.75-4.00</td>
<td>22</td>
</tr>
</tbody>
</table>

No credit will be given for unapproved overloads.

Students who enroll for an overload without the permission of the registrar will be required to drop sufficient courses and/or credits to comply with the prescribed load limit. If a student refuses to drop courses as prescribed, the registrar and the assistant vice chancellor for academic affairs will select the courses to be removed from the record.

Taking Courses Pass-Fail

Students who desire to take courses on a pass-fail basis must apply at a time and place specified by the registrar at the beginning of each semester. Courses taken on a pass-fail basis cannot be used to fulfill general requirements or major requirements (except for courses only offered as pass-fail). Students may enroll for only one course per semester on pass-fail standards.

Course Changes

All course changes must be cleared officially with the registrar; otherwise, grades of “F” will be recorded. Normally students are not permitted to add courses after the fifth day of classes of any term.
Repeat Courses
Students are allowed two attempts for a course. The grade earned in the second attempt (first repeat) will replace the first grade in the grade point average. If the first grade was a passing grade and the second grade is a failing grade, the failing grade is counted and credit earned is removed.

If a student wishes to enroll in a course three or more times, a petition for the repeat must be completed and approval granted by the college dean’s office. Grades earned beyond the second attempt do not replace prior grades in the grade point average. In most cases, a student requesting a third attempt (or greater) may not register until after priority registration ends. If a course is repeated at another institution, the grade is not counted in the grade point average and does not replace grades earned at UW-Platteville.

Auditing Courses
A grade of satisfactory must be earned in any course audited in order to have such audit appear on the student’s transcript. If the grade is unsatisfactory, the audited course shall not appear on the transcript. Audit cards must be filed at the Registrar’s Office during the first week of classes.

Tuition and Fee Policies
The act of registering for courses at UW-Platteville creates a financial obligation to pay the tuition and fees associated with those courses according to the tuition and fees schedule established annually by the UW System Board of Regents. The payment due dates are provided with the initial billing. Payment of all charges is the responsibility of the student. It is the responsibility of the student to pursue money from financial aid, scholarships, loans or other non-personal sources. These are not considered payments until the money is received and posted to the student’s account. Students who fail to cancel their registration or withdraw from courses in compliance with university policies and procedures will be charged even if they do not attend class. Non-attendance does not constitute withdrawal.

REFUND SCHEDULE FOR WITHDRAWALS OR DROPS

<table>
<thead>
<tr>
<th>SESSION LENGTH</th>
<th>Week 1</th>
<th>Week 2</th>
<th>Week 3</th>
<th>Week 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 weeks and over</td>
<td>100%*</td>
<td>100%**</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td>8 weeks thru 11 weeks</td>
<td>100%*</td>
<td>50%</td>
<td>25%</td>
<td>None</td>
</tr>
<tr>
<td>5 weeks thru 7 weeks</td>
<td>100%*</td>
<td>50%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>3 weeks thru 4 weeks</td>
<td>100%*</td>
<td>25%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>2 weeks</td>
<td>100%*</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

After week 4 of a 12 week and over session, there will be no refund. Dropping or withdrawing from courses after refund deadlines and subsequently adding courses may result in additional tuition and segregated fees. For additional tuition or refund information, contact the Cashier’s Office at 608-342-1211.

*less $50.00 processing fee
** less $100 processing fee

Payment Policy
UW-Platteville bills all students for each semester approximately two weeks prior to the beginning of the semester. Students will receive an email in their UW-Platteville email account notifying them the bill is available online through PASS. All students should review their account in PASS during the first week of school to ensure accuracy. Financial aid, scholarships and educational loans will not be reflected on the initial bill. The initial payment due date is approximately five days after the beginning of each semester. To avoid finance charges, accounts must be paid in full by the due date on the initial bill.

A partial payment plan is available for fall and spring semesters to students with a good credit history. (There is no partial payment plan available for summer school and Winterim.) Students with a demonstrated poor payment history may be denied access to the partial payment plan. The partial payment plan consists of an initial payment of 34 percent of all charges billed on the initial bill, due approximately five days after the beginning of each semester and two additional installments of 33 percent due approximately the fifth and ninth week of each semester. Exact due dates are provided with each initial billing statement. A finance charge of one percent per month on the unpaid balance (annual percentage rate of 12 percent) will be assessed on any balance remaining after the initial billing due date. Registered students who do not receive a bill should contact the Cashier’s Office. Failure to receive a bill will not excuse students from payment deadlines.

Payment in full of all tuition and fees prior to the initial billing due date will avoid finance charges. (This date is also provided with each initial billing statement.) Unpaid balances incur finance charges as detailed in the Terms and Conditions form. Registration for future terms will not be permitted unless the account balance is zero.

Accounts in default will be forwarded for collection action through the Department of Revenue and private collection companies. Students will be responsible for all collection costs on amounts not paid when due including, but not limited to, attorney fees and collection agency fees.

If the bill will be paid by a third party (i.e., VA, DVR, Youth Options), a written authorization from the third party must be provided to the Cashier’s Office before the initial billing due date or the account will be considered delinquent. The authorization must include who will be paying, the amount they will be paying, the name and identification number of the student they are paying for and when the payment will be made.

Payments are posted to the student’s account as of the date of receipt. Post-dated checks will be returned to the sender and do not qualify as payment. All checks should be made payable to UW-Platteville and should include the student’s identification number. The payment must be in the Cashier’s Office on or before the due date to avoid service charges. UW-Platteville charges $20 for all checks returned by the bank for any reason.

Excess Credit Policy
Effective fall 2004, Wisconsin resident undergraduate students who have earned 165 credits (or 30 credits more than required
for their degree programs, whichever is greater) are charged a surcharge, equal to 100 percent of the regular resident tuition, on credits beyond that level.

This policy, created by the Board of Regents, views a college degree from the perspective of a taxpayer. There are many legitimate reasons why students might accumulate “excessive” credits. This new policy will not prevent students from pursuing their goals, but it will be at a cost that is less subsidized by Wisconsin tax payers. This is not a policy that UW-Platteville can decide whether or not to implement. This is a mandate. The policy covers all Wisconsin resident undergraduate students pursuing their first bachelor’s degree, including students pursuing a double major. Minnesota residents and non-residents, graduate, post-baccalaureate, non-degree and special students are not affected.

The policy applies to credits earned at UW System campuses and Wisconsin Technical College System transfer credits accepted toward a degree. Retroactive, AP, military and other college transfer credits do not count toward the total. The surcharge will be applied to students in the semester following the one in which they reach the earned credit limit. The limit is 165 credits or 30 credits more than required for a degree program, whichever is greater.

The policy became effective in fall 2004, and it applies to all Wisconsin resident students enrolled who meet the above criteria. It is not phased in. The surcharge adds 100 percent to the Wisconsin resident tuition routinely charged, and it is charged for all credits over the credit limit.

A message will appear on students’ advising reports when they reach 130 earned credits. Each semester, the Registrar’s Office will notify students who have reached a predetermined number of earned credits that they are accumulating credits at a rate that might result in them being charged the surcharge. Students will have the opportunity to discuss the issue with the registrar. Each term, students who have earned 165 credits, or 30 credits more than required for their programs, will have an opportunity to appeal to the Admission and Academic Appeal’s Committee. An appeal form is available from the registrar.

Late Fee (Administrative Assessment Fee)
Students who have not paid at least 34 percent of their total initial bill by the initial billing due date of the fall and spring semester will be assessed a $30 late fee. A $15 late fee will be assessed if 100 percent of the summer or winterim charges are not paid by the due date of the summer or winterim session.

Who gets the bill?
Bills are now online. Students will receive an email on their UW-Platteville email account instructing them to view their bill online. Students may grant guest access to other individuals to view their account by using PASS Express. Students are encouraged to check their account in PASS self service on a weekly basis to see if any activity has occurred.

Refund Policy
Tuition and fees may be refunded upon official withdrawal from the university according to the current refund schedule provided all official withdrawal forms are completed. The current refund schedule for regular length courses, fall and spring semesters is:

<table>
<thead>
<tr>
<th>Refund Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 percent before first day of semester</td>
<td></td>
</tr>
<tr>
<td>100 percent less $50 processing fee during the first week of classes</td>
<td></td>
</tr>
<tr>
<td>100 percent less $100 processing fee during the second week of classes</td>
<td></td>
</tr>
<tr>
<td>50 percent during the third and fourth weeks of classes</td>
<td></td>
</tr>
<tr>
<td>0 percent thereafter</td>
<td></td>
</tr>
</tbody>
</table>

Room and board charges for students who voluntarily withdraw from the university may be adjusted in accordance with the meal and board contracts. Further information about these contracts is available from the Meal Access Office at 608.342.1404 or the Housing Office at 608.342.1845.

If a student receives any type of federal and/or state financial aid (including Direct Loans and/or PLUS Loans) and they withdraw from the university, their financial aid eligibility will be recalculated and a percentage of the aid may be considered unearned and may have to be returned to the funding source. Please contact the Financial Aid Office at 608.342.1836 with any questions about this policy.

For any other billing questions, visit the Cashier’s Office website at www.uwplatt.edu/business/cashiers/, call 608.342.1211 or e-mail cashieroff@uwplatt.edu.

Adding Courses
Students may add courses using PASS through the 5th day of the semester. Courses may be added during the 6th – 10th day with approval of the instructor and department chairperson. Late adds after the 10th day will also require approval of the college dean’s office. Students who add courses after the 10th day will be charged a late add fee of $15 per course.

Per UWS Chapter 18.11(6b), persons present in any class, lecture, laboratory, orientation, examination, or other instructional session shall be enrolled and in good standing or shall have the consent of an authorized university official or faculty member to be considered legally present.

Dropping Courses
Students may drop a course prior to its beginning or during the drop/add period at the start of each semester without the instructor’s signature.

Students who drop a course after the 10th instructional day of the term will be charged a drop fee of $15 per course. Drop fees must be paid at the Cashier’s Office before the form is submitted to the Registrar’s Office.

If a student registered in a course drops that course in the first two weeks of class in that semester (fall/spring), that course shall not appear on the student’s grade list for that semester and hence will not be recorded on the student’s transcript.

If a student registered in a course drops that course any time after the second week of class, but prior to the end of the eighth
Students may drop a course through the eighth week of the current semester. Students who do not drop a course by the end of the eighth week must either complete the course satisfactorily or receive the grade "F." Late drops (beyond the eighth week) will be permitted only in extraordinary circumstances and only with the consent of the instructor and the dean of the college. In order to be allowed a late drop, students must provide a written explanation satisfying the instructor and the dean as to the special circumstances which prevented the student from dropping the course prior to the end of the eighth week.

For courses meeting less than a semester (e.g., summer), the deadline to drop with the notation of withdrawn is as follows:

<table>
<thead>
<tr>
<th>Course Length</th>
<th>Drop Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 week</td>
<td>Wednesday, week 1</td>
</tr>
<tr>
<td>2 weeks</td>
<td>Friday, week 1</td>
</tr>
<tr>
<td>3 weeks</td>
<td>Wednesday, week 2</td>
</tr>
<tr>
<td>4 weeks</td>
<td>Friday, week 2</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Wednesday, week 3</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Friday, week 3</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Wednesday, week 4</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Friday, week 4</td>
</tr>
</tbody>
</table>

Students receiving educational entitlement from the Veterans Administration must report to the VA if they fail or withdraw from all courses after mid-term when enrolled in two or more credit subjects.

**Seniors Enrolled in Graduate Courses**

Seniors are eligible to take graduate courses numbered 5000-6990 for graduate credit, if:

1. they are in their last semester as an undergraduate
2. they are eligible for admission to the graduate program in full standing
3. their undergraduate grade point average is 2.75 or higher
4. they limit their total credit loads to a maximum of 15 credits including graduate courses, and a majority of the credits are for undergraduate courses
5. they secure the approval of the dean of the School of Graduate Studies

Courses taken for graduate credit will not be used to fulfill requirements for the baccalaureate degree.

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**OTHER UNIVERSITY POLICIES**

Anyone taking graduate courses will be charged graduate fees for those courses. Anyone taking undergraduate courses will be charged undergraduate fees for those courses. Graduate classes do not count toward the undergraduate plateau (12-18 credits), and undergraduate classes do not count toward the graduate plateau (9-12 credits).

Students must follow the rules, regulations and academic requirements of both the university and the college in which they are enrolled as described in the catalog of initial enrollment. At a later time, however, students may elect to follow the rules, regulations and academic requirements specified in subsequent catalogs. If progress toward a degree is interrupted by withdrawing from the university and students re-enroll at a later date, they must abide by the catalog in effect at the time they re-enroll.

**Class Attendance**

Class attendance is taken very seriously at UW-Platteville, for education is much more than a matter of tests, readings, examinations and papers. Through lectures and discussions, the subject of a particular course is investigated in depth and explored in its many ramifications; through interaction in the classroom (and outside of it) the many aspects of a given course come together and are synthesized into a coherent whole. Such an educational experience demands reciprocal commitments from faculty to students and from students to faculty.

The administration and faculty assume students will attend
classes regularly, and teachers are expected to keep records of attendance in their classes. Those instructors who set limits on unexcused absences will inform students of their absence policies in writing and orally at the beginning of the semester. Students are responsible for all work missed through unexcused absence. Instructors are not obligated to seek out or counsel students concerning absenteeism or to allow such students any special consideration.

When students wish to participate in field trips or other extracurricular or cocurricular activities, prior approval must be obtained from the instructors of classes that will be missed. Students should contact the instructors when they return to classes, and of course, they are expected to make up any missed work.

A student who is absent from class should notify instructors as soon as possible (either by phone, e-mail or in person). Notifying instructors and arranging make-up work is the responsibility of the student. If contact with instructors cannot be made directly, the student should call the academic department involved. This information is available in the Campus online phonebook. If an absence is medical related and requires treatment from Student Health Services, they may be reached at 608.342.1891.

In serious situations where the student is incapacitated and temporarily unable to contact instructors, family members may contact the Office of Assistant Vice Chancellor for Student Affairs at 608.342.1854 for assistance with these matters. The Office of
Student Affairs would then provide notification (not verification) of the absence to the instructors involved. However, arrangements for make-up work, make-up exams, etc., are the responsibility of the student.

Note: Neither Student Health Services nor the Office of Student Affairs provides excuses for absences from class.

If students have questions or need consultation regarding specific situations, they are encouraged to contact their instructor or the academic department involved.

Grades
The grade point average is determined by dividing the total number of grade points earned by the total number of credits attempted at UW-Platteville.

Grade points for a class are calculated by multiplying the points associated with the letter grade earned and the class credits. All credits are recorded as semester hours.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Definition</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>Excellent</td>
<td>3.70</td>
</tr>
<tr>
<td>B+</td>
<td>Good</td>
<td>3.30</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>Good</td>
<td>2.70</td>
</tr>
<tr>
<td>C+</td>
<td>Fair</td>
<td>2.30</td>
</tr>
<tr>
<td>C</td>
<td>Fair</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>Fair</td>
<td>1.70</td>
</tr>
<tr>
<td>D+</td>
<td>Poor</td>
<td>1.30</td>
</tr>
<tr>
<td>D</td>
<td>Poor</td>
<td>1.00</td>
</tr>
<tr>
<td>F</td>
<td>Fail</td>
<td>0.00</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>Equivalent to “D” or higher</td>
</tr>
<tr>
<td>P</td>
<td>Pass</td>
<td>Equivalent to “D” or higher</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>AUD</td>
<td>Audit</td>
<td>Satisfactory</td>
</tr>
</tbody>
</table>

Incomplete
Sometimes it is appropriate, because of student illness or other unusual circumstances, to give a grade of incomplete. A student who begins a term on final probation may not receive a grade of incomplete in a course during that term without consent of the Dean of the college in which the course was taken. Any incomplete grade submitted which has not been approved will be recorded as an “F.”

After a student receives an incomplete, it is the student’s responsibility to complete all work and assignments necessary to complete the class requirements requirements within the time period allowed by the instructor (up to 26 weeks after the end of the term in which the incomplete is recorded). Unless a grade of incomplete is changed, or the Registrar is notified by the instructor of an extension up to six additional months, before the end of the standard six month time limit, the incomplete will be changed to an “F.”

Repeat
When students repeat courses, the second attempt will replace the first grade in the grade point average. The most recent grade is used regardless of whether it is higher or lower than the previous grade. If the repeat results in the grade of “F” and the student had previously earned a grade higher than “F,” the “F” replaces the grade in the calculation of the grade point average, and the student loses the credits since no credits are granted when a grade of “F” is earned. Grades earned in three or more attempts of a course do not replace prior grades but are included in the grade point average. A course that has a number change needs a repeat card submitted to the Registrar’s Office. Co-ops, internships and independent study courses need a repeat card. Courses coded as repeatable in the online catalog also need a repeat card filed with the Registrar’s Office.

Failing grades and deficiencies in grade point averages may be replaced only by taking work in residence at UW-Platteville. Grades earned in transfer coursework are not included in the UW-Platteville G.P.A.

Academic Misconduct Grade
In a first instance of academic misconduct as defined in Chapter 14 of the UWS “Policies Governing Student Life,” where the resulting course grade is an “F” or other grade, that grade will forever be calculated within the student’s semester and cumulative grade point averages and cannot be removed from that calculation. In other words, the “F” or other grade resulting from academic misconduct is a permanent grade on the transcript. However, in a first and only instance of an “F” or other grade being issued in a course due to academic misconduct, no special designation will be made on the transcript to indicate academic misconduct. A letter, as required by UWS Chapter 14, to inform the student and appropriate personnel of this disciplinary action, will be sent by the faculty member to the Registrar, the student’s academic advisor, the Assistant Vice Chancellor for Student Affairs, the Vice Chancellor, the Dean of the College, and the Department Chair. The letter to the student may be delivered in person or by regular, first class service by the U.S. Postal Service to the address listed with the University by the student. The student then has the right to appeal the grade, as per UWS Chapter 14; no misconduct grade will become permanent until a student’s appeal has been adjudicated, or the deadline to file an appeal has passed without an appeal being filed.

For a second and any subsequent instance of a student committing academic misconduct resulting in a grade of “F” for the course or other grade, the resulting grade shall also be permanent and included in grade point average calculations and shall be designated by a “-M” following the grade to indicate the grade resulted from academic misconduct. Also, following a second instance of academic misconduct resulting in a grade of “F” or other grade, the student’s first course that had a grade recorded by an “F” or other grade for academic misconduct, shall be updated to add the “-M” following that course grade. The Registrar is responsible for the updating of transcripts in accordance with this policy.
The faculty member shall follow the same procedures for notifying the student and appropriate university personnel as described for an initial instance of academic misconduct. The procedures of UWS Chapter 17 shall apply to this policy and a specific case of academic misconduct may be assigned to the Office of the Assistant Vice Chancellor for Student Affairs as specified in UWS Chapter 14.

**Scholastic Honors**
Scholastic honors are the recognition given by the university to students who have achieved high grade point averages. Recognition for scholastic honors may be given at various times during a student’s academic program by inclusion on the Chancellor’s and Dean’s Honor Rolls.

To qualify for Chancellor’s or Dean’s Honors, students must complete at least 12 credits during the semester and meet the following grade point average requirements:

- Chancellor’s Honors: 4.00
- Dean’s Honors, by college:
  - Business, Industry, Life Science and Agriculture: 3.75
  - Engineering, Mathematics and Science: 3.50
  - Liberal Arts and Education: 3.75

At commencement, students who have earned 48 or more credits at UW-Platteville and have earned high cumulative grade point averages during their undergraduate years, graduate in two categories: honors (3.50-3.74), and high honors (3.75-4.00) with the designations of magna cum laude (honors) and summa cum laude (high honors).

**Declaring/Changing Majors**

**Declaring a Major**
Students may declare an intended major immediately upon entering the university, or remain undecided. In either case, they will be assigned an advisor. When students choose a major, they should report to the Registrar’s Office to receive instructions and complete a change of major form (on which they change from undecided to a specific major). They will then be assigned a new advisor in their declared field of study.

**Changing Majors**
Students wishing to change majors and/or colleges should contact the Registrar’s Office for complete instructions and a change of major form. Upon changing majors, students will be assigned a new academic advisor and encouraged to request a major check sheet showing the new requirements they must fulfill. Students who change majors and wish to have their record adjusted under academic bankruptcy guidelines should read the following section.

**Academic Bankruptcy**
Students who change from one major to another at UW-Platteville may be granted the option to have their prior academic record adjusted as follows if they have a grade point average of 2.00 or higher.

1. Credits in courses in which a grade of “D” or higher was earned will be counted toward graduation but not necessarily toward a major or minor.
2. All previous work shall remain on the official record, but the grades will not be used to calculate the cumulative grade point average. The grade point average will be calculated on the basis of grades earned after declaration of academic bankruptcy.
3. This option may be used only once in a student’s undergraduate academic career.
4. In order to graduate after electing this option, a student must complete at least 32 credits and earn a 2.00 grade point average.

**Note:** Students who have less than 2.00 may also qualify, but the credits in which a “D” was earned will not count toward graduation.

Students who wish to file academic bankruptcy must do so within one semester of the change of major. Students who declare academic bankruptcy are not eligible to pursue their previous major without express permission from the dean of that college, and the student’s cumulative grade point average will be recalculated. Students should contact the Registrar’s Office for specific instructions.

**Double Majors**
The student will normally meet graduation requirements for a degree in one of the major curricula. It is permissible for a student to be granted a bachelor’s degree with two majors if the complete requirements of both major curricula are satisfied at the same time.

No more than one diploma or degree will be granted to the same student at one commencement. In the event that a student has completed the requirements for two different degrees, such as a B.A. and a B.S., the student will be required to choose which degree is to be recognized during the commencement ceremony. Both degrees will be posted to student transcripts upon completion. A graduation fee will be assessed for each diploma/degree.

**Transcripts**
The University of Wisconsin-Platteville transcript is a complete academic record of a student’s enrollment at the university. Maintained by the Office of the Registrar, the transcript is a complete history of undergraduate or graduate level courses attempted and grades earned. Courses include those taken at UW-Platteville, transfer coursework evaluated by the university, and advance standing credits. Your semester grade point average and academic standing is shown after each term. The transcript also includes any earned degrees including the majors and minors completed.

Current students can view their unofficial transcripts in the Pioneer Administrative Software System (PASS). Students who are no longer enrolled may only request official copies of their transcripts.

As of February 1, 2014 UW-Platteville retained Credentials Inc. to accept transcript requests over the internet. Both your Date of Birth and Student ID number or Social Security number are required within the request in order to locate your transcript information. Note: Undergraduate and Graduate Transcripts are separate records and must be requested on separate orders.
Only students may request their transcripts, except as prescribed in the Family Educational Rights and Privacy Act. Further information, including a transcript request form, may be found on the Registrar website at www.uwplatt.edu/registrar/transcripts.

**Simultaneous Enrollment at another Institution**

Generally, off-campus courses offered by other accredited colleges and universities will be accepted by UW-Platteville provided a grade of “C” or higher is earned and they are approved by the department housing the major. UW-Platteville does not offer correspondence courses, but UW-Extension does. Permission must be obtained from the registrar prior to registering for correspondence work.

Students enrolling in off-campus or correspondence courses are responsible for making certain such courses meet the requirements of the curriculum in which they are enrolled. In case of doubt, students should contact the registrar, academic advisor or the chairperson of the department in which they intend to major.

UW-Platteville is not able to provide enrollment verification to third parties (e.g., lending institutions) for coursework taken at another institution.

**Academic Probation and Suspension**

Students whose academic records do not meet the minimum achievement standards of the university are placed on academic probation or suspension.

For students enrolled in seven or more credits in any semester, the minimum acceptable standards for retention are as follows:

- **Good Standing**
  Cumulative g.p.a. 2.00 or higher
- **At Risk**
  Freshmen (0-29 credits) with cumulative g.p.a. of 1.80 to 1.99; cannot be “at risk” more than two semesters
- **Probation**
  Cumulative g.p.a. less than 2.00 and
  1. previous term was good standing; or
  2. freshmen who have been “at risk” for two semesters
- **Final Probation**
  Cumulative g.p.a. less than 2.00 and
  1. previous term was probation; or
  2. previous term was final probation and term g.p.a. is greater than 2.00; may continue on final probation twice
- **Dismissal**
  Any semester with a term g.p.a. less than 1.00 or previous term was final probation and criteria to continue on final probation are not met

For students enrolled in six credits or less in any semester:

Part-time students enrolled for six credits or less in the given semester and who have earned at least 12 cumulative credits with UW-Platteville and who have a cumulative G.P.A. below 2.0 will be placed on university probation.

The student can be removed from probation by raising their cumulative G.P.A. to 2.0 (or above) within the next 12 credits of their enrollment. If after the additional 12 credits the cumulative G.P.A. is still below 2.0, the student is dismissed from the university.

The Veterans Administration requires that students receiving educational entitlement from the VA must be reported to the VA if they continue in school for a second probationary semester. Educational entitlement may be terminated by the VA until such students have been counseled by VA personnel.

**Suspension for One Semester:**

Students are suspended (dismissed) from the university for one semester under the following conditions.

1. Any student earning a semester grade point average less than 1.00 regardless of the cumulative grade point average; or
2. Any student on final probation whose cumulative grade point average is less than 2.00 and a) has a semester grade point average less than 2.00 or b) has already continued on final probation two times; or
3. Any student who has not satisfied remedial course requirements after earning 60 credits.

**Suspension for Two Years:**

Students who have been suspended (dismissed), readmitted or reinstated, and again fail to earn the required grade point average, are not eligible to apply for readmission until a period of two years has elapsed. Students who have three or more suspensions from the university must appeal their reinstatement/readmission to the Admission and Academic Appeals Committee after another period of two years has elapsed.

The Veterans Administration requires that students receiving educational entitlement from the VA must be reported to the VA if they continue in school for a second probationary semester. Educational entitlement may be terminated by the VA until such students have been counseled by VA personnel.

**Reinstatement to Good Standing:**

Students achieving cumulative grade point averages of 2.00 or higher are reinstated to good standing. Students are, of course, expected to make diligent progress in the pursuit of a degree. The standards outlined in the Financial Aid section of this bulletin are the stipulated guidelines for satisfactory academic progress for UW-Platteville students.

**Family Educational Rights and Privacy Act**

The Family Educational Rights and Privacy Act affords students certain rights with respect to their education records. These rights include: 1) The right to inspect and review the student’s education records; 2) the right to request the amendment of the student’s education records; 3) the right to provide written consent before the university discloses personally identifiable information from the student’s education records, except to the extent that FERPA authorizes disclosure without consent; and 4) the right to file a
complaint with the U.S. Department of Education concerning alleged failures by the university to comply with the requirements of FERPA. The name and address of the office that administers FERPA is: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue SW, Washington, DC 20202-5901.

UW-Platteville school officials with a legitimate educational need to know may access a student’s education records without consent. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the university. A school official is a person employed by the university in an administrative, supervisory, academic, research or support staff position.

Examples of situations where education records may be disclosed without the student’s written consent include, but are not limited to:

1. Requests for “directory information” and the student has not restricted its release
2. Requests in accordance with a lawful subpoena or court order
3. Requests from representatives of agencies or organizations from which the student has received financial assistance
4. Requests from officials of other educational institutions in which the student intends to enroll
5. Requests from other persons specifically exempted from the prior consent requirement by the act (e.g., certain federal and state officials, organizations conducting studies on behalf of the university, accrediting organizations)
6. Requests in connection with a health or safety emergency as determined by the university

Directory information may be released to any inquirer unless students choose to exercise their right to withhold information. The university publishes an online student directory which includes students’ names, local addresses and telephone numbers, home addresses and telephone numbers, and university assigned e-mail addresses. The online University Phonebook includes student’s names, addresses, telephone numbers and majors. For questions about withholding directory information, please contact the Registrar’s Office at 608.342.1321.

Further information regarding FERPA, including a current list of what information the university has designated as directory information, may be found online under Campus Resources: www.uwplatt.edu/atoz/f.html (Family Educational Rights and Privacy Act).

Student Grievances and Discipline
In any community, including that of scholars and professors, differences of opinion and misunderstandings arise, and provisions must be made for resolution of grievances.

Concerning any decision, there is, with few exceptions, a higher authority to whom appeal may be made should the individual feel that the decision is unjust. The route to follow in seeking redress of a grievance will depend upon the type of grievance and the area of the university concerned. This section will discuss a few of those authorities.

Admission and Academic Appeals Committee
Students with admission, readmission or reinstatement difficulties may appeal in writing to the Admission and Academic Appeals Committee. If the written appeal is denied, personal appeals may be made by appointment through the Registrar’s Office. Please note: if a student has been dismissed more than once, the student will only be allowed to appeal in person. No written appeal is allowed. The committee will study the case and advise the director of Admission and Enrollment Services, registrar or provost as to the proper solutions.

Students with grievances about grades may appeal, in writing, to the Admission and Academic Appeals Committee after first having tried to resolve the issue by conferences with the instructor and department chairperson. If the instructor is the department chairperson, the conference should be with the instructor and college dean. The committee will hear both sides of the issue, examine the records and advise the provost and all parties concerned as to a recommended disposition.

Student Discipline
The assistant chancellor for student affairs (as delegated to the dean of students) handles matters involving students’ rights and responsibilities. The assistant chancellor’s responsibility regarding discipline is two-fold: assuring that students are treated fairly, and seeing that students meet university policies and regulations. The assistant chancellor is guided in this responsibility by Chapters 17 and 18 of the Wisconsin Administrative Code and by those regulations specific to UW-Platteville. For details, see Policies Governing Student Life by going to www.uwplatt.edu, clicking on campus resources A-Z, selecting letter “P” and then selecting Policies Governing Student Life.

The university may discipline a student for academic dishonesty, including any of the following or similar examples of false representation of a student’s performance: cheating on an examination; collaborating with others on work to be presented unless specifically allowed by the instructor; plagiarizing, including submitting the work of others as one’s own (whether purchased, borrowed or otherwise obtained); stealing examinations; falsifying records or data; submitting work previously presented in another course, unless specifically allowed by the instructor; or participating in an arrangement whereby work, classroom activity or an examination is done by another person.

Discipline Committee and Appeal Tribunal
Instances of student misconduct may be adjudicated through the Office of the Assistant Chancellor for Student Affairs (as delegated to the dean of students) or through the Student Faculty Discipline Committee described in the Student Handbook. In addition, students may appeal decisions rendered by the Student Faculty Discipline Committee to an appeal tribunal. The appeal tribunal recommends to the chancellor its decision on the appeal.

Withdrawal from the University
Withdrawal from the university refers to a complete withdrawal from the university, including withdrawal from all classes for the term. This procedure is not to be confused with dropping a single course or several courses (see the explanation for dropping courses).
Students may withdraw from the university through the published deadline (the eighth week of a fall or spring semester). A late withdrawal from the university may be requested through the last day of classes but prior to final exams.

A late withdrawal from the university is permitted once during the student’s academic career. Any subsequent requests for a complete withdrawal from the university made after the published deadlines or a student requesting a late withdrawal from the university within one year of being reinstated or readmitted through the Admission and Academic Appeals Committee must obtain approval for the late withdrawal from a special faculty committee. Students considering withdrawal from the university are encouraged to consult with a staff member at Counseling Services.

To be official, any withdrawal from the university must be cleared with the Registrar’s Office, Counseling Services, the student’s academic advisor, Student Housing Office, Financial Aid Office, Karrmann Library, Textbook Center and Cashier’s Office. All fees and assessments must be paid on all books returned to the library before an official clearance to withdraw can be given. Specific directions concerning complete withdrawal from the university may be obtained by contacting the Registrar’s Office.

If a student is prevented from a timely withdrawal from the university because of accident, injury, major physical or mental health problems, military duty or other extraordinary circumstances, an extraordinary withdrawal from the university may be permitted. Please consult with the university registrar regarding procedures and be prepared to provide documentation to justify the request.

Requirements for the Associate Degree
Students may apply for and be granted an Associate Degree from UW-Platteville providing they have:

1. A minimum of 60 credits
2. Fulfilled all general education requirements
3. A cumulative grade point average of at least 2.00
4. Have earned at least 24 of the 60 credits at UW-Platteville

Contact the Registrar’s Office for specific details.

Requirements for the Bachelor’s Degree
First Bachelor’s Degree
In order to graduate with Bachelor of Arts or Bachelor of Science degrees, students must earn a minimum of 120 college or university credits (some programs require more than 120 credits), and they must (a) satisfy all the requirements for the particular university degree and for the college in which they are enrolled, (b) satisfy all requirements for a major and (c) earn a minimum of 39 credits in upper division courses (courses numbered 3000 or above). NOTE: Students with majors in the College of Engineering, Mathematics and Science must earn a minimum of 40 credits in upper division courses. All students are expected to earn cumulative grade point averages of at least 2.00 in all subjects and within a major field, but must meet any higher minimum academic standards set for particular majors, minors or colleges. All students must earn 32 credits in residence at UW-Platteville and also 23 of their last 32 credits in residence. Of course, students will not be granted a degree until they have met all their financial obligations to UW-Platteville.

Second Bachelor’s Degree
According to the University Undergraduate Curriculum Commission, April 8, 1987:

1. Students with a baccalaureate degree from the UW-Platteville who wish to earn a second major from UW-Platteville may accomplish this by doing the following:
   a. Complete the requirements for the new major not already satisfied
   b. Satisfy other college and institutional graduation requirements for the new major

All general education requirements are satisfied by the first baccalaureate degree.

A separate diploma will be awarded only when the new major leads to a degree different from the first degree granted. Fulfillment of requirements for a second major of the same degree type will not lead to a second degree, but rather credit for a second major will be entered on the recipient’s transcript.

2. Students with a baccalaureate degree from any other accredited institution who wish to earn a second and distinct degree from UW-Platteville must fulfill the following requirements:
   a. Complete the departmental requirements for the new major not already satisfied
   b. Satisfy current college and institutional graduation and residency requirements for the new major

All general education requirements are satisfied by the first baccalaureate degree.

Please see the section entitled Excess Credit Policy regarding questions.

Graduation
Students approaching completion of their program should:

1. Report to the Registrar’s Office at the beginning of their senior year
2. Complete and file an Intent to Graduate card with the Registrar’s Office at that time
3. Review with their major advisor(s), all coursework, credits earned and possible waivers or changes to their degree
4. Inform the Registrar’s Office of any degree changes, substitutions or waivers
5. Prepare for Commencement (attendance is strongly encouraged) by ordering a cap/gown and arranging personal and other details
6. Students are required to pay a graduation fee

Commencements are held twice each year – at the end of the fall and spring semesters. All coursework (including co-ops, internships and student teaching) must be completed before a degree will be awarded and attendance at a Commencement ceremony permitted. Candidates for graduation at the end of a summer session must inform the registrar if they wish to attend the May or December Commencement. Although attendance is optional, we strongly encourage all graduates and their families to attend this important ceremony and celebrate the achievements of our new graduates.
VETERAN’S RESOURCES

Veteran’s Benefits
The veteran’s certifying official is located in the Robert and James Wright Center for Non-Traditional and Veteran Students Room 322 Royce Hall. The certifying official serves as an advocate and resource person for veterans on campus and has information on local, state and federal resources. Call 608.342.7352/7351 with any questions before, during, or after enrollment at UW-Platteville.

Veterans interested in educational benefits must complete the necessary application forms for the benefit they are seeking. Although the certifying official provides information about the various benefit programs, the decision about which program to apply for needs to be made by the veteran. For further information, please visit www.uwplatt.edu/non-traditional-and-veterans/veterans

For assistance regarding benefit eligibility or to learn about other benefits, veteran’s should contact the Grant County Veterans Service Office at 608.723.2756.

Veteran’s Club
The Veteran’s Club offers the opportunity for fellow student veterans to come together in order to build camaraderie and support systems. The Veteran’s Club invites members who have served in any branch for any length of time in the U.S. military to join. The goals of the club are to unite service member students on campus, to establish a unified veteran’s voice on campus and to assist the members in academics, developing social skills and in the understanding of one another. For further information, please visit www.uwplatt.edu/non-traditional-and-veterans/veterans-club-uw-platteville.

Veterans and Military Service Personnel: Leaving and Returning to the University

Mobilization Guidelines
If currently enrolled students receive military orders (involuntary call to active duty) that will interrupt their education, they must provide a copy of their orders to the registrar and the veterans certifying official. Notification of the registrar will allow the student to exercise the following options:

1. Withdrawal from all courses with a full refund of tuition
2. Selective withdrawal from one or more courses with a refund of tuition
3. Incomplete grades awarded at the discretion of the instructor to provide an extension for completing coursework
4. Final grades may be issued if the instructor determines that the student has completed a sufficient amount of coursework

Returning to the University
Any students returning from military service or who have interrupted their studies to enlist and attend military training may return without applying for readmission if the period of absence does not exceed two years. In order to reactivate the student’s eligibility to register, the student should contact the Registrar’s Office no later than six months following discharge from service or training. An updated DD-214 or NOBE (DD 2384-1) should be submitted to the registrar and the veterans certifying official as soon as possible but no later than six months after the effective date of the orders.

Before enrolling with another university or college, students must contact the Registrar’s Office to ensure that classes are transferable. Any such enrollment must be reported at the time of re-entry to UW-Platteville and official transcripts must be provided. If a student leaves the university to enlist following an academic dismissal, an appeal to the Admissions and Academic Appeals committee may be required. Enlistment will not void an academic dismissal. For further information, please contact the Registrar’s Office at (608) 342-1321 or by e-mail at registrar@uwplatt.edu.
FINANCIAL AID

The Office of Financial Aid assists students with state and federal financial aid programs. Office personnel also provide budget and loan indebtedness counseling and help students find employment on and off campus. They also administer the UW-Platteville Foundation Scholarship Program.

Financial Aid Programs
Three basic categories of financial aid are administered through the UW-Platteville Office of Financial Aid. To be considered for these programs, students must be degree seeking and enrolled for at least six credits. In some cases, students may be eligible for a Pell Grant if enrolled less than half-time. Students enrolled as special are not eligible for any of these programs except regular student employment.

To apply for the programs listed below, students must complete the Free Application for Federal Student Aid. Students can apply online at www.fafsa.ed.gov. (March 15 is a UW-Platteville priority filing date but not a deadline.)

Grants
These aid programs do not require repayment:
- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant
- Wisconsin Grant (Wisconsin residents)
- Talent Incentive Program Grant (Wisconsin residents)
- Lawton Undergraduate Minority Retention Grant (Wisconsin residents)
- Advanced Opportunity Grant (graduate students who are Wisconsin residents)

Loans
These low interest educational loans require repayment, but interest and principal for most loans are deferred until after graduation:
- Federal Perkins Loan
- Federal Subsidized Stafford Loan
- Federal Unsubsidized Stafford Loan (not need based and interest is not deferred)
- Graduate PLUS Loan (graduate students only)
- Federal Plus Loan (a loan for parents to take out for dependent students, not need based and request for deferred repayment is available)*

Campus Employment
Students may work on campus to help with expenses.
- Federal Work Study Program
- Regular student payroll (not need based)*
* FAFSA is not required

Satisfactory Academic Progress (SAP)
Federal financial aid regulations require that UW-Platteville establish reasonable standards for measuring student’s satisfactory academic progress in their educational programs. This policy is separate from the University’s Standards of Academic Probation and Suspension. A student may be in good standing with the University but still have their financial aid suspended. However if a student is dismissed from the University for any reason their financial aid eligibility is suspended. To comply with these regulations the Financial Aid Office will monitor the student’s progress toward degree completion. In order to receive and continue to receive financial aid, students must pass all of the following three (3) standards of satisfactory academic progress (SAP).

Evaluation tests:
- Minimum grade point average
- Minimum credits completed (67% Rule)
- Maximum Time Frame

In order to maintain financial aid eligibility students who fail any of the evaluation tests will not be eligible for federal or state financial aid. This includes all federal and state grants, federal student loans and the federal work-study program.

SAP Standard for Grade Point Average
Undergraduate students must maintain the following cumulative GPA:
- Freshmen undergraduate students (0-29 credits) 1.8 GPA
- All other undergraduate students (30+ credits) 2.0 GPA

Please note this requirement may be different than the University’s Standard of Academic Probation and Suspension requirements listed in the undergraduate catalog. Students receiving financial aid must follow the above for continued financial aid eligibility.

- All graduate students must maintain a 3.0 GPA
- Students enrolled in both undergraduate and graduate courses must meet the requirements of the degree seeking career.

SAP Standard for Minimum Credits Completed (67% Rule)
All undergraduate and graduate students must complete 67% of the total attempted credits. This is calculated by dividing the number of successfully completed credits into the attempted credits. Successful completion means that a grade of A, B, C, D or P were earned. A grade of F, W, or I represents unsuccessful completion of a course and are counted towards the total attempted. A grade of D for a graduate student is not considered as successful completion of the credits attempted. Determination of attempted credits will be made on the 10th day of each semester.
SAP Standard for Maximum Time Frame
The total maximum time frame for undergraduate and graduate students receiving financial aid cannot exceed 150% of the published length of the program. An undergraduate program requiring 120 credits for graduation would allow 180 credits attempted (120 x 150% = 180). Transfer credits from other institutions will be added to UW-Platteville credit attempts to determine the total number of credits attempted (180 maximum) for an undergraduate student. All credits will count in the evaluation including credits earned during semesters or summers when no financial aid was received. When enrolled in a degree program that has a published minimum credit requirement greater than 120 credits financial aid may be extended. In a graduate program the maximum credits attempted to maintain eligibility are 54.

Reinstatement of Financial Aid under SAP
Satisfactory Academic Progress (SAP) is evaluated every payment period (Fall/Spring/Summer) after grades are posted. The first time that a student does not meet one or more of the tests they will be notified that they are being automatically placed on Warning Status for one payment period. By the next evaluation, the student must be meeting all components of SAP to be placed back in good standing. If not, the student’s financial aid will be suspended for all future terms and they must complete an appeal process and explain why they failed to meet SAP and what has changed that will allow them to meet SAP by the end of the next term. If a student will be unable to meet the satisfactory academic progress requirements by the end of the next term, they may be approved to be placed on an academic plan which will need to be approved by the academic progress committee and the student's academic advisor. If the student is not meeting SAP or following their approved academic plan at the next evaluation, they will be suspended again and become ineligible to receive financial aid until they are in compliance. Students placed on an academic plan are in a Probation standing for SAP.

SAP Appeal Process
Students with extenuating circumstances that prevented them from making SAP have the right to appeal their situation. Extenuating circumstances include, but are not limited to, student injury or illness, death of a student’s relative or other reasons resulting in undue hardship to the student. Per federal regulations, an appeal may only be approved if the student shows that they will be able to meet SAP at the next evaluation, or the student's academic plan ensures SAP by a specific point in time. Incomplete/inaccurate appeals or Academic Plans will not be approved. A committee will review the appeal and notify the student with the decision of the committee. All decisions are final. If denied, the student may attend UW-Platteville without financial aid, and re-apply for financial aid when all components of SAP are being met, or they have an approved appeal.

Appeals should be submitted by the following dates to be considered for that term:
- Summer term: Appeal must be submitted by June 14.
- Fall semester: Appeal must be submitted by October 1.
- Spring semester: Appeal must be submitted by March 1.

If a student has not submitted an appeal by these dates and are not making satisfactory academic progress, they will not be able to appeal this until the next term.

Withdrawals: Withdrawals, either from a course or from the University, are counted as credits attempted.

Repeated Courses: Repeated courses will count in the calculation of credits attempted and GPA.

Incomplete Courses: Incomplete course work is an unsuccessful completion, however if successful grades are posted after initial review of SAP, the SAP standard will be reviewed and updated if SAP standing changes as a result of the grade posted.

Remedial Courses: Remedial courses successfully completed are acceptable as a measure of academic progress.

Audited Courses: Audited courses are not taken for credit and are not funded by financial aid. Therefore audited courses are not considered in this policy.

Consortium Agreement Credits: Credits taken at other institutions while on a consortium agreement with UW-Platteville will be considered transfer credits in the Satisfactory Academic Progress Policy and be counted towards both credits attempted/completed and used with both the Minimum Credits Completed (67% Rule) and Maximum Time Frame.

Study Abroad: Grades for credits attempted and earned in study abroad programs/international exchange programs are often delayed in being reported to the Registrar’s Office. These credits are considered credits attempted and not earned until the Registrar’s Office posts the passing grades. Students in this situation will be placed on financial aid probation and future financial aid will not be disbursed until the passing grades are posted. It will be the student’s responsibility to notify the Financial Aid Office when grades are posted.

Academic Dismissal: Students who are dismissed from the University will lose eligibility for financial aid. If a student is reinstated or re-admitted to the University they must notify the financial aid office. The student’s academic progress will be reviewed at that time by the financial aid staff to determine if they are meeting the financial aid satisfactory academic progress guidelines or need to appeal.

Repeated Coursework
A student may repeat a passed course once and receive financial aid.

A student may repeat a class until it is passed and receive financial aid.

University Refund Policy
For students who withdraw from the university in fall or spring semesters, the following refund policy is applied for tuition and fees:

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<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
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<tbody>
<tr>
<td>100 percent</td>
<td>Prior to start of semester</td>
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<tr>
<td>100 percent</td>
<td>Less $50 processing fee first week of classes</td>
</tr>
<tr>
<td>100 percent</td>
<td>Less $100 processing fee second week of classes</td>
</tr>
<tr>
<td>50 percent</td>
<td>Third week of classes</td>
</tr>
<tr>
<td>50 percent</td>
<td>Fourth week of classes</td>
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Refund for tuition and fees is based on the full semester cost. Students who live in the residence hall and/or are on a meal plan shall be refunded room and board paid in advance on a weekly prorated basis.
Return of Unearned Financial Aid
If a student withdraws from the university prior to completing 60 percent of the semester and had received financial aid (grants and/or student loans), the student may have to return a portion of the federal financial aid. The amount of aid students may keep when they withdraw is in direct proportion to the length of time they remained enrolled during the semester.

Unofficial Withdrawal
Students who received federal financial aid and receive all "F" grades for non-attendance are considered unofficially withdrawn for the semester. The Office of Financial Aid will determine the student’s last date of attendance and the return of unearned financial aid formula will apply (see above). If the last date of attendance cannot be determined, the student is assumed to have attended 50 percent of the semester.

Scholarships
Each year, the UW-Platteville Scholarship Program awards over $590,000 in scholarships. The goal of the scholarship program is to provide awards to as many students as possible.

Scholarships are awarded on academic achievement, community involvement, extracurricular activities and autobiographical essay. Some scholarships require that a student prove financial need. If a student receives a scholarship, it will be considered a resource, and this may affect the amount of other aid the student receives. The specific eligibility criteria are generally listed with each scholarship.

The program is divided into two distinct parts: one for incoming first year students and one for continuing students. The application process is different for each program.

New Freshman Scholarship Program
Students who apply and are accepted for admission at UW-Platteville are eligible to apply for scholarships provided through the UW-Platteville Foundation. Only admitted students will receive scholarship information. To ensure getting the scholarship information, a student should apply for admission by Dec. 1 of the year prior to attendance. The scholarship information will be mailed to the student after they are admitted. The completed scholarship applications must be submitted by Feb. 1. Committees will meet to make the selections, and students will be notified as soon as possible, generally in March. To be a recipient a student must be enrolled as a full-time student, taking 12 or more credits. The amount and number of scholarships are subject to change and vary from year to year.

Continuing Student Scholarship Program
Scholarships are available to continuing students at UW-Platteville. Transfer students may apply, but scholarships are limited. Scholarship applications should be submitted by March 1 for the scholarships to be awarded for the next academic year. A listing of scholarships can be viewed on the Office of Financial Aid webpage.

Other Scholarships
Information regarding other scholarship resources, not related to the UW-Platteville Foundation, is available in the Office of Financial Aid. Applications for these national, regional or major-specific scholarships are usually available.

STUDENT LEARNING OUTCOMES, CORE CURRICULUM REQUIREMENTS APPROVED COURSE LISTINGS

A University of Wisconsin-Platteville education consists of two main components: the core curriculum (commonly called “general education”) and the academic major. The core curriculum provides a broad foundation of knowledge and skills; the academic major focuses on the knowledge and skills of a specific field. The overall goal is to empower graduates to live thoughtfully, concerned about their professional careers, as well as public issues that reach far beyond their professional circle, local community, or nation. More specifically, a rigorous University of Wisconsin-Platteville education in the arts and sciences enables students to:

1. Apply their knowledge to recognize and solve a wide variety of problems,
2. Appreciate and create works of excellence,
3. Develop an informed perspective on national and international issues, and

These goals reflect the opening statement of the Select Mission in which the University of Wisconsin-Platteville pledges itself to: 
literate, intellectually more astute, ethically more sensitive, and to participate more wisely in society as a competent professional and a knowledgeable citizen.”

**Student Learning Outcomes**
The full impact and value of a University of Wisconsin-Platteville education is impossible to measure. Many of its benefits are not recognized until after the student has graduated. Nevertheless, some of its benefits are measurable. Measurable student learning outcomes are listed below, under the goal to which they are most closely connected. For each of these student learning outcomes, University of Wisconsin-Platteville students shall:

1. Apply their knowledge to recognize and solve a wide variety of problems

**Mathematical Reasoning Skills**
1. Recognize mathematical patterns to solve problems.
2. Demonstrate ability to work with numbers, space, and data.
Effective Communication Skills
3. Construct articulate explanations using the language of each discipline being studied.
4. Organize written and spoken material in a coherent and logical pattern that is also mechanically sound
5. Demonstrate knowledge of the processes of human communication and develop critical listening skills.
6. Read, write, listen, and speak at a basic level in a language other than English.

Critical Thinking Skills
7. Demonstrate skills in problem-solving.
8. Distinguish between valid and invalid reasoning.
9. Assess the plausibility of proposed solutions.
10. Demonstrate knowledge of scientific methods.

2. Appreciate and create works of excellence

Knowledge of the Arts and Sciences
1. Demonstrate knowledge of the fundamental ideas at the heart of the arts and sciences, including fine arts, history, humanities, mathematics, the natural sciences, and the social sciences. It also includes the disciplines that cut across these categories, namely, ethnic studies, women’s and gender studies, and international education.

Creative thinking skills
2. Demonstrate appreciation for the creative works of others.
3. Demonstrate the ability to create works of personal expression.

3. Develop informed national and international perspectives

International awareness
1. Demonstrate knowledge of cultures other than one’s own.
2. Demonstrate knowledge of the ideologies, cultures, places, political and economic systems that shape the world.

Cultural awareness
3. Demonstrate knowledge of the history, culture, customs, values, lifestyles and contributions of the populations of color in the United States.
4. Demonstrate knowledge of the cultural constructs that perpetuate stereotypes and social interaction based on gender, race, ethnicity, religion and sexual orientation.
5. Identify the social and political structures that support racism, sexism, and other forms of discrimination.
6. Recognize the influence the students’ own culture, gender, racial identity, and experiences have on their own attitudes towards people different from themselves.

4. Participate ethically and wisely in a diverse society

Individual Responsibility
1. Recognize that personal choices have consequences on ourselves, others, and the environment.

Social Responsibility
2. Distinguish between ethical and unethical behavior.
3. Demonstrate knowledge of the multiple viewpoints regarding ethics, justice, and other questions of human meaning and value.
4. Recognize the importance of individual engagement on a local, regional, national, or international level.
5. Recognize the impacts of technology and scientific innovation on society and the environment.

These student learning outcomes are satisfied by successful completion of core curriculum courses and courses in the student’s major.

Core Curriculum Requirements

Entry Year Experience (Required of all students who enter UW-Platteville with fewer than 30 credits)
An Introduction to College Course (1 credit)
All sections must contain:
• A core component of “survival skills” for freshmen (e.g. time management skills, information about campus resources, advising, etc.).
• Information about engagement opportunities (e.g., PACCE).
• Discussion of diversity issues.
• A participation requirement. Students are required to attend/participate in a minimum of 3 events or activities during the semester (may count participation in one meeting of a student organization as one event).

Competencies (13-21 credits)
At UW-Platteville, the competencies are comprised of the basic skills: (1) English Composition, (2) Foreign Language, (3) Mathematics, (4) Speech and (5) Wellness/Physical Activity. The design of the basic competency program assumes that high school graduates have met the minimum standards of the university. Opportunities for testing out of certain basic requirements for the baccalaureate degree will exist. Students with exceptionally strong high school backgrounds may earn general education credit by CLEP (College Level Examination Program) or AP (Advanced Placement) testing. Entering students who do not meet minimum standards on the UW System English and Mathematics Placement Tests may be required to take remedial courses in these areas, and such courses will not count toward general education or graduation requirements.

English Composition (6 credits)
Students must be able to write and read effectively.

Foreign Language (0-8 credits)
Students must be able to use a language other than English. Two years of the same high school language with a minimum of “C” average the second year fulfills this requirement.
Mathematics (3 credits)
Students must have a basic competency in computation, problem solving, and quantitative reasoning.

Speech (2-3 credits)
Students must be able to understand spoken English and communicate using it effectively

Wellness/Physical Activity (2 credits)
Students must know how to achieve and maintain both their physical and mental well being.

Liberal Studies Areas (minimum 29 credits; at least 6 credits at the 2000-level or above)

Ethnic Studies (3 credits)
The purpose of ethnic studies is to awaken the minds and spirits of students to the issues of race and ethnicity in the United States and the social realities and moral challenges of racism in U.S. culture. It strives to help students fulfill their intellectual, moral and social potential, and encourages them to remove barriers that can prevent others from achieving their own potential.

Fine Arts/History/Humanities (12 credits)
- The purpose of the study of fine arts is to help students become familiar with the historical and cultural heritage of the fine arts. They should also gain a basic understanding of the creative processes, forms and concepts used in the arts.
- The purpose of the study of history is to challenge students to understand and assess our past, in order to form a clearer perception of the present and to deal more effectively with public issues.
- The purpose of the study of humanities is to explore the range of human thought and experience - achievements and failures, joys and sorrows, comedy and tragedy, life and death. It should challenge students to understand and evaluate how others, past and present, historical and fictional, have struggled with these issues.

This requirement is met by taking at least three credits in approved courses in each of these three areas: Fine Arts, History, and Humanities. The remaining three credits must be a second, advanced course (2000 level or above) in the same discipline chosen from the Fine Arts, History, or Humanities.

Gender Studies (3 credits)
The purpose of gender studies is to help students come to a better understanding of themselves as responsible individuals operating within a gendered cultural context, paying special attention to perspectives involving women.

International Education (3 credits)
The purpose of international education is to challenge students to understand our place within the world and to provide basic knowledge about cultures, people or nations beyond the borders of the United States.

Natural Sciences (8 credits)
The purpose of studying the natural sciences is to help students understand nature and how the processes of scientific investigation lead to new discoveries. The credits must be taken in approved courses in two areas (for example, Biology, Chemistry, Geography, Geology, Physics and Physical Science). In each area the course must include a laboratory component.

Social Sciences (9 credits)
The purpose of studying the social sciences is to develop an understanding of social systems, the dynamics of individual and group behavior and the forces that operate in social relationships. At least 3 credits must be taken in approved courses in each of two disciplines listed below (Agricultural Industries, Criminal Justice, Economics, Ethnic Studies, Geography, Media, Political Science, Psychology, Sociology, Speech, and Women's and Gender Studies). The remaining 3 credits must be a second, advanced course (2000-level or above) in one of the two disciplines previously chosen.

A course may fulfill more than one liberal arts requirement, but no student may use a single course to fulfill more than two liberal studies requirements.

Writing Emphasis Requirement (6 credits)
Writing Emphasis (WE) courses must meet the requirements below. WE courses may be either General Education courses or discipline-specific courses; in the former case, courses are also expected to satisfy all appropriate General Education guidelines.

1. Instructors are expected to assign their students both informal and formal writing as means to gain and express an understanding of discipline-specific content. When and where appropriate, instructors should teach students the rhetorical strategies and writing conventions of their particular field or discipline.

2. Instructors are expected to provide meaningful feedback on student writing. This may be achieve through direct lecture, handouts, class discussion, analysis of model writing, written feedback from the instructor, directed peer reviews, and instructor- student conferences. In addition, the Writing and Tutoring Resource (WATR) Center should be seen as a source of supplemental support rather than direct instruction.

3. Writing activities must constitute a substantial component of the course. “Substantial portion of the course” is defined as either (a) a minimum of 30 pages of student writing, or (b) at least 30% of a student’s semester grade determined by writing assignments or activities. Written examinations consisting partially or wholly of essay questions may not be included in a course’s satisfaction of either of the requirements above.

4. Multiple writing assignments are expected throughout the semester, as are opportunities to revise selected assignments. A single term paper without opportunity for revision does not meet this requirement.

In addition, the following requirements must be satisfied.

- WE courses must be numbered at the 2000 level or higher.
- WE courses must include ENGL 1230/Freshman Composition II as a co-requisite or prerequisites.
General Rules

1. Only approved courses may be used to fulfill the core curriculum requirements. All approved core curriculum courses must meet at least four of the UWP Student Learning Outcomes.
2. Every student must earn a minimum of 42 credits in upper-division courses (courses numbered 3000 or above).
3. All students must earn 32 credits in residence at UW-Platteville and also 23 of their last 32 credits in residence.
4. Writing Emphasis (WE) courses are designated with a W at the end of the course number. Example: BIOLOGY 242W.

Core Curriculum Requirements

Effective fall 2014 for new incoming freshmen;
Effective fall 2015 for re-entrant and new transfer students:

Must have 42 credits of 3000 level or higher of the 120 minimum undergraduate credits needed for graduation
Minimum of 43 credits from: ENTRY-Entry Year Experience, WE-Writing Emphasis, Competencies and Liberal Studies Areas
ENTRY-Entry Year Experience (1 credit)
(Required of all students who enter UW-P with fewer than 30 credits)

Writing Emphasis Requirement (6 credits)
Writing Emphasis courses may be either Liberal Studies Area courses or discipline-specific courses and will satisfy both WE and Liberal Studies Area designated.

- WE courses must be numbered at the 2000 level or higher.
- WE courses must include ENGL 1230/Freshman Composition II as a co-requisite or prerequisites.

Competency Requirements (13–21 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 1130</td>
<td>6 cr</td>
<td></td>
</tr>
<tr>
<td>Sociology 1010, 1250, 2010, 2250 or 3250</td>
<td>2–3 cr</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1630 or above**</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Wellness (HHP) 1000, (WOMSTD) 2430</td>
<td>1 cr</td>
<td></td>
</tr>
<tr>
<td>Physical activity (HHP) 1020 to 1640, (MUSIC) 1820</td>
<td>1 cr</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>0-8 cr</td>
<td></td>
</tr>
</tbody>
</table>

Liberal Studies Areas

(Minimum 29 credits; at least 6 credits at the 2000 level or above)

Humanities (HUMAN), Fine Arts (FINE A), and History (HIST P) (12 credits)
Courses must be from areas of humanities, fine arts and history.

Social Sciences (SOC SC) (9 credits)
Courses must be from areas of agriculture, media, criminal justice, economics, energy, ethnic studies, geography, political science, psychology, sociology, speech, and women’s and gender studies.

Natural Sciences (NAT SC) (8 credits)
Courses must be from areas of Agsci, geography, geology, biology, chemistry, physics and physical science. All courses must involve a laboratory experience.

International Education (INT ED) (3 credits)
The following general rules apply:

1. Only approved courses may be used to fulfill the general education requirements.
2. Except in the case of courses taken to fulfill international education, ethnic studies and gender studies requirements, a course may not fulfill more than one Liberal Studies Area. Students must take one three credit course counting for both ethnic and gender studies (EGS) or take one three credit course counting for ethnic studies (E) and one three credit course counting for gender studies (G). Courses that are listed in the humanities, fine arts, historical perspective and social science areas which can be used to meet the international education requirement are listed under the area of international education. Courses which can be used to meet the ethnic/gender studies requirement are designated with an (EGS) for ethnic and gender, (E) for ethnic only or (G) for gender only.
3. All students must earn 32 credits in residence at UW-Platteville and also 23 of their last 32 credits in residence.

Ethnic Studies (3 credits)

Gender Studies (3 credits)

Approved Course Listings

Entry Year Experience (1 credit)
Required of all students who enter UW-P with fewer than 30 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBUS 1000</td>
<td>Agribusiness Professional</td>
<td>1 cr</td>
</tr>
<tr>
<td>BIOLOGY 1020</td>
<td>Bioquest</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMISTRY 1010</td>
<td>Intro to College Life Chemistry Majors</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>UWPSTUDY 1010</td>
<td>Intro To College Life</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

Writing Emphasis Requirement (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 242W</td>
<td>Fundamentals Of Biol Invest</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 210W</td>
<td>Thematic Studies In Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 344W</td>
<td>19th Century British Literature (HUM)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 354W</td>
<td>20th &amp; 21st Century British Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 410W</td>
<td>Studies In Fiction</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 411W</td>
<td>Studies In Drama</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 415W</td>
<td>Studies In Poetry</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 363W</td>
<td>Philosophy Of Law</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 396W</td>
<td>Behavioral Research I</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 397W</td>
<td>Behavioral Research II</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Competency Requirements (13-21 credits)
The competency requirements are met by taking approved courses in the areas of communication (English composition and speech), mathematics, wellness, physical activity and foreign language.
English Composition (6 credits)
Students' UW System English Placement Test scores determine whether or not they will be invited to take the test-out for English 1130. Except for qualified students who test out of English 1130, students must take each of the courses in the freshman composition sequence:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH</td>
<td>1130 Freshman Composition</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>1230 Freshman Composition</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Foreign Language (0-8 credits)
Students who have not maintained a "C" or higher average in a second year (2 semesters) high school foreign language course must complete one of the following groups. Students with one year of high school language may wish to test into the second course of the sequence. Students already fluent in a second language other than French, German or Spanish should consult with the UW-Platteville Humanities Department.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINESE</td>
<td>1540 Elementary Chinese</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHINESE</td>
<td>1640 Elementary Chinese</td>
<td>4 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>1040 Elementary French</td>
<td>4 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>1140 Elementary French</td>
<td>4 cr</td>
</tr>
<tr>
<td>GERMAN</td>
<td>1240 Elementary German</td>
<td>4 cr</td>
</tr>
<tr>
<td>GERMAN</td>
<td>1340 Elementary German</td>
<td>4 cr</td>
</tr>
<tr>
<td>PORTUGUESE</td>
<td>1840 Elementary Portuguese</td>
<td>4 cr</td>
</tr>
<tr>
<td>PORTUGUESE</td>
<td>1940 Elementary Portuguese</td>
<td>4 cr</td>
</tr>
<tr>
<td>SPANISH</td>
<td>1840 Elementary Spanish</td>
<td>4 cr</td>
</tr>
<tr>
<td>SPANISH</td>
<td>1940 Elementary Spanish</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Speech (2 credits)
Students must take or test out of one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEECH</td>
<td>1010 Public Speaking</td>
<td>2 cr</td>
</tr>
<tr>
<td>SPEECH</td>
<td>2010 Speech Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>for Teachers</td>
<td></td>
</tr>
<tr>
<td>SPEECH</td>
<td>2250 Communication/Leadership</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>in Small Groups</td>
<td></td>
</tr>
<tr>
<td>SPEECH</td>
<td>3250 Interpersonal Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>Counts as speech OR SOC SC, not both</td>
<td></td>
</tr>
</tbody>
</table>

Mathematics (3 credits)
The number of mathematics credits required of students will vary with the degree they are completing. UW System Mathematics Placement Test results will establish a student’s level of mathematics proficiency, and suggest which course the student preparatory/remedial mathematics courses to meet the pre requisite MATH 1630 or higher mandate. Also, the mathematics requirement will be waived for students who receive credit for MATH 2640 Calculus and Analytic Geometry. Students must meet the mathematics competency requirements before their junior year. Students may consult the UW-Platteville Mathematics Department for details concerning test-out credit.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>1630 Finite Mathematics</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>with Applications</td>
<td></td>
</tr>
<tr>
<td>MATH</td>
<td>1730 Mathematics of Finance</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>1830 Elementary Statistics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>1930 Mathematical Explorations</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>2030 Mathematics for Educators II</td>
<td>3 cr</td>
</tr>
<tr>
<td>(for elementary education majors only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH</td>
<td>2450 Precalculus</td>
<td>5 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>2530 Trigonometry</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>MATH</td>
<td>2630 Calculus with Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>2640 Calculus and Analytic Geometry</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Wellness (1 credit)
Students must choose one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP</td>
<td>1000 Fitness Assessment</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>and Management</td>
<td></td>
</tr>
<tr>
<td>WOMGENDER</td>
<td>2430 Women and Health (G)</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Physical Activity (1 credit)
Students must choose one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP</td>
<td>1020 Criminal Justice Fitness</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1040 Canoe, Kayak and/or Rafting</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1100 Seasonal Activities</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1110 Weight Training</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1120 Aerobic Weight Training</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1130 Badminton</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1140 Basketball</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1200 Self Defense</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1210 Golf</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1230 Jogging/Walking</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1250 Relaxation</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1280 Personal Conditioning</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1300 Personal Fitness</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1310 Scuba Diving</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1340 Soccer</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1370 Dance Tech/Practice</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>(Ballroom, Latin, Country)</td>
<td></td>
</tr>
<tr>
<td>HHP</td>
<td>1390 Racquet Sports</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1400 Fitness/Activity</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1410 Swimming</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1430 Tennis</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1440 Volleyball</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1450 Wallyball/Volleyball</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1460 Yoga/Pilates</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1530 Bowling</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP</td>
<td>1640 Downhill Skiing</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>1820 Marching Pioneers</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

Liberal Studies Areas

Humanities (HUMAN), Fine Arts (FINE A) and History (HIST P) (12 credits)
This requirement is met by taking at least three credits in approved courses in each of these three areas: Fine Arts, History, and Humanities. The remaining three credits must be a second, advanced course (2000 level or above) in the same discipline chosen from the Fine Arts, History, or Humanities.
### Fine Arts (FINE A) (3 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1230</td>
<td>Art and Children’s Literature for Teachers</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 1240</td>
<td>Art and Creativity for Educators for Teachers</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 2030</td>
<td>Art History I: Ancient/Medieval</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 2140</td>
<td>Art History II: Renaissance-1879</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 2340</td>
<td>Art History III: Modern</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 3530</td>
<td>Art History V: Far Eastern Art (INT ED)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 4230</td>
<td>Theory of Art</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART/ETHNIC 2730</td>
<td>Art History IV: Ethnic Art in the U.S. (ETHNIC)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART/ETHNIC 2750</td>
<td>Native American Art</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNIC/MUSIC 2050</td>
<td>Native American Music (ETHNIC)</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 1100</td>
<td>Jazz Ensembles (FINE A after 3 times)</td>
<td>1 credit</td>
</tr>
<tr>
<td>MUSIC 1510</td>
<td>University Community Orchestra (FINE A after 3 times)</td>
<td>1 credit</td>
</tr>
<tr>
<td>MUSIC 1590</td>
<td>Music Appreciation</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 1610</td>
<td>University Band (FINE A after 3 times)</td>
<td>1 credit</td>
</tr>
<tr>
<td>MUSIC 1710</td>
<td>Choir (FINE A after 3 times)</td>
<td>1 credit</td>
</tr>
<tr>
<td>MUSIC 2020</td>
<td>Music Theatre</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2250</td>
<td>History and Literature of Western Music I</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2350</td>
<td>History and Literature of Western Music II</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2450</td>
<td>World Music Survey</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2550</td>
<td>American Music</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2650</td>
<td>History of Jazz</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2750</td>
<td>History of American Musical Theatre</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2850</td>
<td>History of Rock and Roll</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 3250</td>
<td>History and Literature of Western Music III</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 3350</td>
<td>History and Literature of Western Music IV</td>
<td>3 credits</td>
</tr>
<tr>
<td>THEATRE 1130</td>
<td>Introduction to the Theatre</td>
<td>3 credits</td>
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### Humanities (HUMAN) (3 credits)

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## Social Sciences (SOC SC) (9 credits)

At least 3 credits must be taken in approved courses in each of two disciplines listed below (Agricultural Industries, Media, Criminal Justice, Economics, Ethnic Studies, Geography, Political Science, Psychology, Sociology, Speech, and Women’s and Gender Studies). The remaining 3 credits must be a second, advanced course (2000-level or above) in one of the two disciplines previously chosen.

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<td>POLISCI</td>
<td>International Relations (INT ED)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>Current Issues and Democracy</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>Introduction to Public Policy</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>Comparative Politics (INT ED)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>Congressional Politics</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>American Political Parties/</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

## Natural Sciences (NAT SC) (8 credits)

Courses must be from areas of Agsci, Geography, Geology, Biology, Chemistry, Physics and Physical Science. All courses must involve a laboratory experience.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY</td>
<td>General Biology</td>
<td>5 credits</td>
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<tr>
<td>BIOLOGY</td>
<td>General Botany</td>
<td>5 credits</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>Unity of Life</td>
<td>5 credits</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>Diversity of Life</td>
<td>5 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>3520</td>
<td>The Judicial Process</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
<td>----------------------</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>2340</td>
<td>Essentials of Anatomy and Physiology</td>
</tr>
</tbody>
</table>
CHEMISTRY 1050  General Chemistry 5 credits
CHEMISTRY 1140  General Chemistry I 4 credits
CHEMISTRY 1240  General Chemistry II 4 credits
CHEMISTRY 1450  Chemistry for Engineers 5 credits
GEOGRAPHY 1040  Planet Earth 4 credits
GEOGRAPHY 1140  Global Landforms 4 credits
GEOGRAPHY 1240  Weather and Climate 4 credits
GEOGRAPHY 1370  Global Vegetation 4 credits
GEOLGY 1140  Physical Geology 4 credits
GEOLGY 1240  Historical Geology 4 credits
PHYSICS 1150  Physical Science 4 credits
PHYSICS 1310  Introductory Astronomy Lab 1 credit
PHYSICS 1340  Introductory Astronomy 4 credits
PHYSICS 1050  Principles of Physics 5 credits
PHYSICS 1350  Introductory Physics I 5 credits
PHYSICS 1900  Disc Relativity and Quantum Mech 4 credits
PHYSICS 2240  General Physics I 4 credits
SCSCI 3220  Plant Development and Biotechnology 4 credits

Ethnic Studies (ETHNIC), Gender Studies (GENDER), Ethnic and Gender Studies (ETHNIC/GENDER) (6-9 credits) International Education (INT ED) (3 credits)
In addition to courses approved for international education, the international education requirement may be satisfied through documented coursework undertaken through participation in foreign exchange programs or study abroad programs. Short term visits of less than six weeks duration and/or trips undertaken primarily for tourism or recreational purposes may not be used to fulfill this requirement. At least three credits must be taken to satisfy the international education requirement.

The following courses are approved for the international education requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBUS</td>
<td>2330 World Population, Food and Resources (SOC SC)</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>2130 Plants and Society</td>
<td>3 credits</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>1300 Global Business</td>
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<tr>
<td>BUSADMIN</td>
<td>3750 International Short Study</td>
<td>3 credits</td>
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<tr>
<td>ENGLISH</td>
<td>2640 World Literature I (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2650 World Literature II (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2770 International Cinema (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3260 Language and Culture (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3850 Contemporary Global Literature and Empire (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>FRENCH</td>
<td>3000 Foreign Languages Study Abroad (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>FRENCH</td>
<td>4060 Survey French Literature and Culture I (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>FRENCH</td>
<td>4160 Survey French Literature and Culture II (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>1050 Introduction to Human Geography (SOC SC)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>1230 Survey of Cultural Geography (SOC SC)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>1330 World Regional Geography (SOC SC)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>3030 Economic Geography (SOC SC)</td>
<td>3 credits</td>
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<tr>
<td>GEOGRAPHY</td>
<td>3350 Geography and Development</td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
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<td>-----------------------------------------------------------</td>
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<tr>
<td>GEOGRPHY 3630</td>
<td>Geography of Latin America (SOC SC)</td>
<td>3 credits</td>
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<tr>
<td>GEOGRPHY 3730</td>
<td>Geography of Europe (SOC SC)</td>
<td>3 credits</td>
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<tr>
<td>GEOGRPHY 3930</td>
<td>Geography of Asia (SOC SC)</td>
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<td>GEOGRPHY 3960</td>
<td>Geography of Japan (SOC SC)</td>
<td>3 credits</td>
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<td>GEOGRPHY 4230</td>
<td>Political Geography (SOC SC)</td>
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<tr>
<td>GERMAN 2240</td>
<td>Intermediate German (HUMAN)</td>
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<td>GERMAN 2340</td>
<td>Intermediate German (HUMAN)</td>
<td>1–4 credits</td>
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<tr>
<td>GERMAN 3000</td>
<td>Foreign Languages Travel Abroad (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GERMAN 3330</td>
<td>German Literature of the 20th Century (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GERMAN 3430</td>
<td>German Literature of the 19th Century (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GERMAN 3530</td>
<td>German Civilization (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 1020</td>
<td>World Civilization II (HIST P)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3460</td>
<td>History of Modern Africa (HIST P)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3640</td>
<td>Imperialism in Africa and Asia (HIST P)</td>
<td>3 credits</td>
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<tr>
<td>HISTORY 3660</td>
<td>Colonial Latin American History (HIST P)</td>
<td>3 credits</td>
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<tr>
<td>HISTORY 3670</td>
<td>Modern Latin American History (HIST P)</td>
<td>3 credits</td>
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<tr>
<td>HISTORY 3890</td>
<td>The History and Science and Technology in Europe (HIST P)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3920</td>
<td>Modern Middle East (HIST P)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 4110</td>
<td>Russia to 1856 (HIST P)</td>
<td>3 credits</td>
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<tr>
<td>HISTORY 4120</td>
<td>Modern Russia (HIST P)</td>
<td>3 credits</td>
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<tr>
<td>POLISCI 3950/3340</td>
<td>Modern Japan (HIST P)</td>
<td>3 credits</td>
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<tr>
<td>POLISCI 3970/3350</td>
<td>Modern China (HIST P)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 4120</td>
<td>Modern Russia (HIST P)</td>
<td>3 credits</td>
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<tr>
<td>WOMGENDR 3650</td>
<td>Women and Gender in Latin American History (HIST P)</td>
<td>3 credits</td>
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<tr>
<td>PHILSPHY 2930</td>
<td>Major Traditions in Eastern Religions (HUMAN)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 1330</td>
<td>International Relations (SOC SC)</td>
<td>3 credits</td>
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<tr>
<td>POLISCI 2430</td>
<td>Comparative Politics (SOC SC)</td>
<td>3 credits</td>
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<tr>
<td>POLISCI 3720</td>
<td>Politics of the Global Economy (SOC SC)</td>
<td>3 credits</td>
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<tr>
<td>POLISCI 3750</td>
<td>International Human Rights (SS) (SOC SC)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 3760</td>
<td>International Security (SOC SC)</td>
<td>3 credits</td>
</tr>
<tr>
<td>SOCIOLGY 1130</td>
<td>Introduction to Anthropology (SOC SC)</td>
<td>3 credits</td>
</tr>
<tr>
<td>SOCIOLGY 2130</td>
<td>Cultural Anthropology (SOC SC)</td>
<td>4 credits</td>
</tr>
<tr>
<td>SPANISH 2840</td>
<td>Intermediate Spanish (HUMAN)</td>
<td>4 credits</td>
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<tr>
<td>SPANISH 2940</td>
<td>Intermediate Spanish (HUMAN)</td>
<td>1–4 credits</td>
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<tr>
<td>SPANISH 3000</td>
<td>Foreign Language Travel Seminar (HUMAN)</td>
<td>3 credits</td>
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<tr>
<td>SPANISH 3830</td>
<td>Spanish Civilization (HUMAN)</td>
<td>3 credits</td>
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<tr>
<td>SPANISH 3840</td>
<td>Topics in Hispanic Literature and Culture (HUMAN)</td>
<td>3 credits</td>
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<tr>
<td>SPANISH 3850</td>
<td>Spanish American Literature and Culture I (HUMAN)</td>
<td>3 credits</td>
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</table>
Ethnic and Gender Studies Courses (ETHNIC/GENDER) (3-6 credits)

Three credits must be taken in approved courses to satisfy the ethnic and gender studies requirement. Students can take one three-credit course counting for both ethnic and gender studies or take six credits, one three credit course counting for ethnic studies and one three credit course counting for gender studies. Students may select from the following: (If the course carries other liberal arts credit, that area is also listed.) (Topic courses may or may not count for ethnic, gender or both, depending on course content.)

The following courses are approved for BOTH Ethnic and Gender Studies credit (ETHNIC/GENDER):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN/3340</td>
<td>Management, Gender, and Race</td>
<td>3</td>
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<tr>
<td>WOMGENDR/ETHNSTDY</td>
<td>Political Economy, Race, Gender, and Ethnicity (SS)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/2930</td>
<td>Minority Women Writers of the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>ETHNSTDY/3030</td>
<td>Race, Gender, and Class</td>
<td>3</td>
</tr>
<tr>
<td>ETHNSTDY/3830</td>
<td>Black Women and Feminism in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>WOMGENDR/3630</td>
<td>Ethnic and Gender Equity in Education</td>
<td>3</td>
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</table>

The following courses are approved Gender Studies credit (GENDER):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS/3730</td>
<td>Women and the Law (SOC SC)</td>
<td>3</td>
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<tr>
<td>WOMGENDR/2150</td>
<td>Introduction to Gay Studies (HUMAN)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/2830</td>
<td>Survey of Women Writers (HUMAN)</td>
<td>3</td>
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<tr>
<td>ENGLISH/3110</td>
<td>Gay and Lesbian Literature for Young Adults (HUMAN)</td>
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<tr>
<td>ENGLISH/3280</td>
<td>Gay and Lesbian Literature (HUMAN)</td>
<td>3</td>
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<tr>
<td>ENGLISH/4500</td>
<td>Women and Myth: Goddess, Witch, Sibyl (HUMAN)</td>
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<tr>
<td>WomGENDR/4550</td>
<td>Studies in World Literature (HUMAN)</td>
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<tr>
<td>GEOGRAPHY/3170</td>
<td>Space, Place and Gender</td>
<td>3</td>
</tr>
<tr>
<td>GEOGRAPHY/4350</td>
<td>Gender Relations in Cross Cultural Perspectives</td>
<td>3</td>
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<tr>
<td>HISTORY/3520</td>
<td>American Women’s History (HIST P)</td>
<td>3</td>
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<tr>
<td>HISTORY/3700</td>
<td>Women in European Civilization (HIST P)</td>
<td>3</td>
</tr>
<tr>
<td>MEDIA/3200</td>
<td>Gender and Popular Culture (SOC SC)</td>
<td>3</td>
</tr>
<tr>
<td>PHILSYPH/3530</td>
<td>Philosophy’s Feminist Future (HUMAN)</td>
<td>3</td>
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<tr>
<td>WOMGENDR/2530</td>
<td>Psychology of Women (SOC SC)</td>
<td>3</td>
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<tr>
<td>PSYCHLG/2230</td>
<td>Women, Sex Roles and Society (SOC SC)</td>
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<tr>
<td>SOCIOLGY/4840</td>
<td>Gay and Lesbian Drama</td>
<td>3</td>
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<tr>
<td>WOMGENDR/1130</td>
<td>Introduction to Women and Gender Studies (HUMAN)</td>
<td>3</td>
</tr>
<tr>
<td>WOMGENDR/2430</td>
<td>Women and Health (WELLNESS)</td>
<td>3</td>
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<tr>
<td>WOMGENDR/2530</td>
<td>Psychology of Women (SOC SC)</td>
<td>3</td>
</tr>
<tr>
<td>WOMGENDR/2730</td>
<td>Women in Science and Engineering (SOC SC)</td>
<td>3</td>
</tr>
<tr>
<td>WOMGENDR/3330</td>
<td>Topics in Women and Gender Studies</td>
<td>3</td>
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<tr>
<td>WOMGENDR/3430</td>
<td>Women and the Arts (FINE A)</td>
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<tr>
<td>WOMGENDR/3520</td>
<td>American Women’s History (HIST P)</td>
<td>3</td>
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<tr>
<td>WOMGENDR/3700</td>
<td>Women in European Civilization (HIST P)</td>
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The following courses are approved for Ethnic Studies credit (ETHNIC):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART/2730</td>
<td>Art History IV:</td>
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<tr>
<td>ETHNSTDY/2830</td>
<td>Ethnic Art in the U.S. (FINE A)</td>
<td>3</td>
</tr>
<tr>
<td>CRIMLJUS/3730</td>
<td>Ethnicity, Race, and Crime</td>
<td>3</td>
</tr>
<tr>
<td>ETHNSTDY/3740</td>
<td>Black Literature in America (HUMAN)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/3750</td>
<td>Asian American Literature (HUMAN)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/3760</td>
<td>American Literature of Ethnicity and Immigration (HUMAN)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNSTDY/2050</td>
<td>Native American Music (HUMAN)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNSTDY/2130</td>
<td>The Native American Experience (HUMAN)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNSTDY/2200</td>
<td>Introduction to Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHNSTDY/2230</td>
<td>Black Experience in the U.S.</td>
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<tr>
<td>ETHNSTDY/3010</td>
<td>Race, Gender, and U.S. Labor History (HIST P)</td>
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<td>ETHNSTDY/3230</td>
<td>Human Relations (SOC SC)</td>
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<tr>
<td>ETHNSTDY/3240</td>
<td>African-American History: 1619 to present (HIST P)</td>
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<tr>
<td>ETHNSTDY/3720</td>
<td>Ethnic Rights and Politics (SOC SC)</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC/2050</td>
<td>Native American Music (HUMAN)</td>
<td>3</td>
</tr>
<tr>
<td>POLISCI/3730</td>
<td>Ethnic Rights and Politics (SOC SC)</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE/4850</td>
<td>Multicultural Dynamic Literature (HUMAN)</td>
<td>3</td>
</tr>
</tbody>
</table>
SPECIAL ACADEMIC PROGRAMS

Many programs are offered at UW-Platteville. Some of these programs deserve special mention not only because they are unique strengths at UW-Platteville, but also because they suggest the depth of our commitment to a rich and varied curriculum serving the needs of all students.

Pre-Professional Programs

Many students enroll at UW-Platteville for coursework before completing their education at another professional school or college. Pre-professional curricula for a variety of professions have been developed. A student enrolling in one of the pre-professional programs will be assigned a faculty advisor who will assist in developing course schedules and preparing for entrance into a professional school of the student’s choice. A faculty advisor has been identified as the contact person for each program listed below. Each student interested in a specific pre-professional program is strongly encouraged to seek the advice of the contact person to ensure appropriate advising.

Pre-Chiropractic

Advisor: Jeff Huebschman
Office: 243 Gardner Hall
Phone: 608.342.1742

Chiropractic is a natural approach to health issues that concerns itself with the integration of the body’s systems and organs. The Doctor of Chiropractic specializes in the adjustment of the spine and the relationship between the spinal vertebrae and the nervous system and their relationship to health and disease without the use of drugs or surgery.

The UW-Platteville program normally requires completion of a bachelor’s degree and the fulfillment of other requirements of the chiropractic school. Occasionally a student enters chiropractic school after three years of coursework.

Pre-Cytotechnology

Advisor: Esther Ofulue
Office: 240 Gardner Hall
Phone: 608.342.1331

Cytotechnology is the study of cell structure and function. Cytotechnologists are integral members of the health care team. They apply their special skills in microscopy and staining techniques to determine aberrations in cellular structures and provide physicians with preliminary diagnosis of diseases. The ability of cytotechnologists to accurately perform diagnostic procedures enables effective prevention or early treatment of diseases such as cancer. They can also work as health educators, laboratory managers and administrators or researchers.

UW-Platteville has a three plus one articulation with the UW-Madison School of Cytotechnology and State Lab of Hygiene. Students are minimally required to complete three years of coursework at UW-Platteville for admission to UW-Madison or other professional schools.

Pre-Dentistry

Advisor: Rich Dhyanchand
Office: 340 Gardner Hall
Phone: 608.342.6155

Dentistry is the science or profession concerned with the teeth and associated structures of the mouth. It involves the prevention, diagnosis and treatment of disease, injury or malfunction of the teeth, gums and jaws. Dentists practice in several specialties using a full range of techniques.

The UW-Platteville program consists of selected courses that help to provide a basic body of knowledge to meet the admission requirements for schools of dentistry. Admission to a school of dentistry normally follows the fulfillment of requirements of the desired professional school in the completion of a Bachelor of Science degree in biology.

Pre-Law

Advisor: John Rink
Office: 140 Gardner Hall
Phone: 608.342.1795

Pre-law is not an academic major or sequence of courses, but rather a program of activities designed to guide the undergraduate student interested in a career in law to make sound decisions and achieve success. This begins with the choice of an academic major of interest to the student and the selection of challenging courses which elicit and strengthen the student’s talent. The student receives academic advisement from an advisor in his or her major field and pre-law advisement from an experienced pre-law advisor.

The advantages of the pre-law program include the following:

• Award-winning and nationally recognized mock trial and competition teams which compete in invitational, regional and national tournaments
• An active Pre-Law Society which sponsors trips to pre-law events, tours of law schools and visiting speakers
• Guidance in evaluating law-related careers
• Advice in the selection of law schools and the opportunity to talk directly to admissions personnel at pre-law forums
• Help in preparing for the Law School Admissions Test
• Law-related courses in such disciplines as political science, criminal justice and business administration, which not only challenge the student but offer a taste of legal education
**Pre-Medical Technology**

**Advisor:** Esther Ofule
**Office:** 240 Gardner Hall
**Phone:** 608.342.1331

The field of medical technology or clinical laboratory science is the medical application of the basic sciences in laboratory medicine. Members of this profession are responsible for providing accurate, reliable laboratory tests to determine the presence, absence, extent or cause of disease. Medical technologists (clinical laboratory scientists) use sophisticated chemical procedures, complex instruments and microscopic observation to relay information to physicians for diagnosis and treatment of disease.

The UW-Platteville program requires students to complete a two to three year course of study which fulfills the requirements for admission to a professional program.

**Pre-Medicine**

**Advisor:** Rich Dhyanchand
**Office:** 340 Gardner Hall
**Phone:** 608.342.6155

**Co-Advisor:** Scott White
**Office:** 611 Pioneer Tower
**Phone:** 608.342.1499

Medical doctors prevent, diagnose, treat and cure disease in their patients. Physicians practice in many medical specialties using a full range of health-care techniques aimed at maintaining and improving health.

The UW-Platteville program consists of selected courses which help to provide a basic body of knowledge necessary to meet the admission requirements for medical schools. Admission to a medical school normally follows the completion of a bachelor’s degree.

**Pre-Ministry**

**Advisor:** Shane Drefcinski
**Office:** 419 Warner Hall
**Phone:** 608.342.1828

Professional ministry as a pastor, rabbi, youth leader, teacher or parish worker requires that a student be aware of everything that touches the lives of people and is especially sensitive to the human hunger for meaning, perspective and understanding.

The UW-Platteville program provides supportive counsel and helpful experiences (not only for those wishing to enter a professional religious vocation, but also for those not certain but interested).

Faculty will help students:
1. Plan a broad liberal arts academic program
2. Find appropriate off-campus work or study opportunities
3. Think through their professional plans and hopes

**Pre-Nursing**

**Advisor:** Amanda Trewin
**Office:** 241 Gardner Hall
**Phone:** 608.342.1527

Nurses meet the physical and emotional needs of patients in a broad range of settings while providing care prescribed by a physician. There is more than one educational pathway that culminates in becoming a Registered Nurse (RN). Some students choose to earn an Associate Degree in Nursing (ASN) at a 2-year community or technical college. This degree prepares an individual for a defined technical scope of practice. Other students choose to earn a Bachelor of Science in Nursing (BS/ BSN). These students are more broadly trained and therefore are able to administer nursing care across all healthcare settings. Although we do not offer a BSN at UW-Platteville, students can begin their studies with us. Students that begin college with Nursing as their goal complete prerequisite courses in two years (or less) and then transfer to a Nursing School where they study for another 2-3 years. Students that make their decision later often complete a Bachelor of Science in Biology at UW-Platteville taking care to also complete prerequisite courses. These students can then complete a BSN in an Accelerated Program at a Nursing School. The BS to BSN completion programs typically take one year of study beyond the BS.

**Pre-Occupational Therapy**

**Advisor:** Marilyn Tufte
**Office:** 253 Gardner Hall
**Phone:** 608.342.1664

Occupational therapy is a vital health care service that uses purposeful activity as the basis for treatment and prevention of a wide variety of physical, developmental and emotional disabilities. Occupational therapists plan programs that enable patients to practice self-care, learn personal and social behavior skills and gain more independence.

The UW-Platteville program for pre-occupational therapy students provides the necessary science background as well as an understanding of people and society necessary to gain entrance into the professional phase.

**Pre-Optometry**

**Advisor:** Rich Dhyanchand
**Office:** 340 Gardner Hall
**Phone:** 608.342.6155

Optometry is the branch of health services concerned with the examination, diagnosis and treatment of conditions or impairments of the vision system. Doctors of Optometry are highly trained, state licensed practitioners who examine eyes and related structures to detect the presence of vision problems, eye diseases and other eye-related problems. Optometrists are the major providers of vision care in this country.

The UW-Platteville program consists of selected courses that help to provide a basic body of knowledge to meet the admission requirements for schools of optometry. Admission to a school of optometry normally follows the fulfillment of requirements of the desired professional school in the completion of a Bachelor of Science degree in biology.
Pre-Osteopathy
Advisor: Amanda Trewin
Office: 241 Gardner Hall
Phone: 608.342.1527

Osteopathic medicine is one of two medical fields fully licensed and approved for the delivery of complete medical care. Osteopathic physicians practice in all recognized medical specialties, using the full range of health-care techniques in diagnosis and treatment. The distinctive feature of osteopathic medicine is the recognition of the interrelationship between the structure and function of the body, that is, traditional emphasis on holistic medicine or treating the patient as a whole person. One of the characteristic features and added dimensions of a Doctor of Osteopathy in terms of clinical practice is the utilization of manipulative therapy.

The UW-Platteville program consists of selected courses which help to provide a basic body of knowledge to meet the admission requirements for osteopathic schools. Admission to an osteopathic school normally follows the completion of a bachelor’s degree.

Pre-Pharmacy
Advisor: Qiong (June) Li
Office: 314 Ottensman Hall
Phone: 608.342.1498

Pharmacy has traditionally been the branch of health services concerned with the composition of medications, dosage forms, methods of preparation, tests for the purity and potency, as well as the proper medicinal use. The pharmacist is responsible for preparing, storing and dispensing medications. As an expert on the action of medication on the body, the pharmacist is called upon by physicians and the public alike concerning the use of prescribed and over-the-counter medications.

The UW-Platteville program involves two years of study in a selected group of courses. The courses provide the necessary science background as well as an understanding of people and institutions to prepare students for pharmacy school.

Pre-Physical Therapy
Advisor: Marilyn Tufte
Office: 253 Gardner Hall
Phone: 608.342.1664

Physical therapy is a dynamic health care profession. Physical therapists are skilled in planning, organizing and directing programs for the care of individuals of all ages who have been impaired by disease or injury. The physical therapist performs tests and evaluations which help to establish treatment objectives for the patient. In addition, the physical therapist works with the patient to carry out the objectives in ways that are realistic and consistent with daily needs.

The UW-Platteville program for pre-physical therapy students provides the necessary science background as well as an understanding of people and society to help students qualify for the professional program.

Pre-Physicians Assistant
Advisor: Rich Dhyanchand
Office: 340 Gardner Hall
Phone: 608.342.6155

A physician assistant is a health care professional who functions as an extension of a physician and provides a wide range of medical services. Under the supervision of licensed physicians, physician assistants interview patients and record health histories, conduct physical examinations, order and interpret diagnostic tests, establish treatment plans and educate patients in preventive medicine and health maintenance.

The UW-Platteville program is usually a four-year course of study resulting in a bachelor’s degree and the fulfillment of additional physician assistant professional school requirements.

Pre-Podiatry
Advisor: Amanda Trewin
Office: 241 Gardner Hall
Phone: 608.342.1527

Podiatry is the area of medicine concerned with the prevention, diagnosis and treatment of diseases and disorders affecting the human foot and ankle. The UW-Platteville program is designed to meet admission requirements for entrance into a School of Podiatric Medicine. Most students are admitted to a podiatry school after completion of a bachelor’s degree although only 90 credits are required. The Doctor of Podiatric Medicine (DPM) will take another 4-years of school. This is followed by a 3-year Podiatric Medical and Surgical Residency (PMSR).

Pre-Speech-Language Pathology
Advisor: Elizabeth Gates
Office: Warner 231
Phone: 608.342.1724

Speech-language pathologists (informally known as speech therapists) evaluate and treat speech, language, and swallowing disorders in people of all ages. They address individuals’ speech and vocal production, swallowing difficulties, and communication disorders through speech therapy in a variety of different settings including schools, health care facilities, and private practice.

The UW-Platteville program is approximately a four-year course of study resulting in a bachelor’s degree and the fulfillment of additional requirements for graduate school in speech-language pathology.

Pre-Veterinary Medicine
Advisor: Krista Hardyman
Office: 315 Pioneer Tower
Phone: 608.342.7235

Veterinary medicine applies modern medical science to the care of animals. The study of veterinary medicine is concerned with gaining a thorough knowledge of the fundamental biological and physical sciences relating to animal functions. In the clinical years, students correlate and apply this knowledge to the many areas of professional service.

The pre-veterinary medicine program at UW-Platteville, through the School of Agriculture and Biology Department, consists of selected courses specified by veterinary colleges that prepare students for admission into a four-year program which culminates in the awarding of a doctorate in veterinary medicine. (Note: This program is administered by the School of Agriculture.)
Cooperative Education Programs

Cooperative Education (Co-op) is one form of an experiential learning opportunity. Co-op is also a plan of education that actively combines classroom learning and on-the-job experience by alternating periods of study and work. The work period is spent in full-time employment with private industry or governmental agencies. The work assignment exposes the student to a variety of experiences and is closely related to his/her field of study and career goals.

Students with an overall GPA of 2.5 on a 4.0 scale and that have completed 30 credits are eligible. Some employers have requested co-op students who have had particular course completion prior to the co-op experience. Other Employers suggest multiple term co-ops. The University of Wisconsin-Platteville Career Center works closely with the co-op Program to assist students looking for positions. Go to the The Career Center website to get started in a Cooperative program today!

National Student Exchange Program

Contact: Admission and Enrollment Services
Office: 1300 Ullsvik Hall
Phone: 608.342.1125

The National Student Exchange Program (NSE) is designed to provide UW-Platteville students an opportunity to study at more than 170 other NSE member institutions for a semester or academic year while paying UW-Platteville tuition and fees. This program is nationally sanctioned and has placed more than 55,000 since its inception in 1968.

In order to be eligible, UW-Platteville students must have a cumulative grade point average of 2.50 or higher, be a full-time student and must agree to remain a full-time student during the exchange period. Since UW-Platteville is designated as an even exchange program, it is most important to know that unless otherwise stipulated, there should be the same number of students coming to UW-Platteville in the exchange program that are attending other NSE institutions.

For further information about this highly successful and unique program, please contact the NSE coordinator or assistant at 608.342.1125 or 1300 Ullsvik Hall. Because the application and advising process is highly involved, several months of careful planning before the annual March placement date is strongly suggested.

Continuing Education

Contact: Marian Maciej-Hiner
Office: 2110 Ullsvik Hall
Phone: 608.342.1314

The Office of Continuing Education brings together professionals and community members of all ages in Southwest Wisconsin, the tri-state region, and across the state of Wisconsin, through lifelong learning experiences. Continuing education classes, programs, and events serve learners' requests and needs, and provide a supportive, convenient, and positive environment that creates shared learning connections between UW-Platteville and the communities in our region.

Continuing Education offers credit classes designed for K-12 teachers, technical college and early childhood professionals working to meet certification requirements. Many classes are delivered through web-based sessions to expand access for students living and working at a distance from campus. Community education classes are held in the evenings and weekends - and weekdays during the summer - to enrich the lives of adults and young learners in southwestern Wisconsin. Continuing Education also provides 24/7 online registration and payment access, along with other support services, for meetings and events held on- and off-campus.

The Office of Continuing Education is a partnership between UW-Platteville and UW-Extension, to carry out the Wisconsin Idea of extending university resources beyond campus boundaries to the citizens of the state.

Recertification Classes

Continuing Education offers 1-3 credit professional development courses for K-12 educators working to renew their certification. Topics include best practices in classroom management, administration, reading and literacy, and other current issues. Face-to-face classes are held throughout Southwest Wisconsin, typically in a weekend (Friday night/Saturday all day) schedule, or in a web-enhanced format for increased convenience and access. Classes are held year-round, with expanded programming from June-August.

Child Care Credentials

Continuing Education offers five undergraduate (or no credit) credential series for child care professionals in cooperation with The Registry and TEACH, a project of the Wisconsin Early Childhood Association.

Child Care Administrator’s Credential

This six-course, 18-credit credential series helps child care professionals earn the Wisconsin Professional Credential for Child Care Administrators. Course topics include administration/supervision, operations management, financial management and planning, child care in the external environment, best practices and administrator’s capstone.

Infant/Toddler Professional Credential

This four-course, 12-credit credential series helps child care professionals earn the Wisconsin Infant/Toddler Professional Credential. Course topics include infant/toddler development, group care for infants and toddlers, family and community relationships and infant/toddler capstone.

Inclusion Professional Credential

This four-course, 12-credit credential series helps child care professionals earn the Wisconsin Inclusion Professional Credential. Course topics include children with differing abilities, children with significant behavioral challenges, children with special health care needs and family and team centered practices capstone.

Preschool Professional Credential

This six-course, 18-credit credential series helps child care professionals earn the Wisconsin Professional Preschool Credential. Course topics include foundations of early childhood education; child development; health, safety and nutrition; guiding
children’s behavior; art, music and language arts; and preschool
credential capstone.

Leadership Professional Credential
This four-course, 12-credit credential series helps child care
professionals earn the Wisconsin Leadership Professional
Credential. Course topics include the personal disposition of a
leader, leading in a program, leading in a community and in the
field, and leading for change.

Independent Learning
Independent Learning provides an opportunity to take courses
at the participant’s convenience. Participants enroll at any time,
complete assignments as their schedule permits and take their
exams when they are ready. Participants can complete the
course they’ve always wanted to take or need.

More than 125 courses for university undergraduate credit are
currently being offered. Courses range from 1-5 credits and are
offered online or print with an e-mail option. Subjects include
business, education and health, English and humanities, ethnic
studies, foreign language, math and science, social science and
more.

Independent Learning is a part of the UW-Extension Division of
Continuing Education, Outreach and E-Learning. Independent
Learning has offered courses since 1892. Independent Learning’s
university-level courses are developed and taught by faculty and
instructors affiliated with UW institutions and accredited by the
North Central Association of Colleges and Schools.

Independent Learning catalogs are available through the Office of
Continuing Education, 2100 Ulsvik Hall, or online at il.wisconsin.
edu or by calling 1.877.895.3276 (toll-free). Independent
Learning advisors are available to answer questions regarding
course selection, registration, policies and procedures.

WisLine Audioconference Service
WisLine is the easy, fast and affordable way to meet with
colleagues without leaving the office or building. The conference
call service operated by UW-Extension has the features to serve
conference call needs.

WisLine offers these advantages:
• easy to set up and use
• availability of lines
• convenient hours
• state-of-the-art digital audio quality and performance
• service before, during and after a conference

WisLine also provides these options: WisLine Video:
Videoconferencing is a powerful telecommunication tool which
transmits two-way interactive live video and audio
simultaneously between two sites or multiple sites.
WisLine Web: Webconferencing allows participants to effectively
and easily communicate and collaborate in real-time – conducting
live, interactive meetings, courses and programs using a web
browser and a phone.
Available to all government, educational and nonprofit
organizations, WisLine utilizes the state of Wisconsin’s STS
system for outgoing calls so participants receive the lowest long
distance rates.
For more information, contact WisLine reservations at
608.262.0753 (M-F, 8 a.m. - 4:15 p.m.) or online at www.uwex.
edu/ics/wisline.

Remedial Courses in
English and Mathematics
Mathematics
UW-Platteville entered a consortium agreement with Southwest
Wisconsin Technical College in Fennimore, Wis., whereby
technical college faculty provide instruction in to students who
are deficient in mathematics

Entering new students at UW-Platteville who do not meet
the minimum requirements on the UW System Mathematics
Placement Test are expected to take MATH 10 Elementary

Algebra and/or MATH 15 Intermediate Algebra. These students
are required to successfully complete one or both of these
courses before they are allowed to register for credit-bearing
mathematics courses.

The two courses above are non-credit; therefore, they do not
count toward the total number of credits needed to satisfy
degree requirements at UW-Platteville. The courses, MATH 10
and MATH 15, are taught by SWTC faculty. Students attend the
above classes on the Platteville campus as is the case with all
other coursework.

English
Beginning in the fall 2014 semester, the College of Liberal Arts
and Education has entered into a Memorandum of Understanding
with UW-Richland Center for the teaching of Developmental
English. Entering new students at UW-Platteville who do not
score at least 346 on the Wisconsin English Placement Test must
enroll in and successfully complete English 10, Developmental
English, prior to enrolling in the credit-bearing sequence of first-
year writing courses, English 1130 and English 1230. All courses
are taught on the UW-Platteville campus.

Per University of Wisconsin System policy, students must
successfully complete the necessary remedial courses prior
to completion of 30 credits. If a student at UW-Platteville has
not completed remedial coursework after earning 30 credits,
the academic course load will be limited to 12 credits per
semester including the remedial course. If the remedial course
requirements remain unsatisfied after 60 credits are earned,
the student will be dismissed (suspended) from the university.
Questions concerning remedial coursework may be directed to
the UW-Platteville Humanities Department at 608.342.1826 or
the UW-Platteville Mathematics Department at 608.342.1741.
Individually Contracted Major

Coordinator: Associate Dean, College of Liberal Arts and Education
Office: 160 Gardner Hall
Phone: 608.342.1151

Mission
The purpose of the individually contracted major is to afford an individualized source of study to students who are unable to fulfill important educational and/or career goals via the existing majors.

Objectives
1. The student will self-assess personal, educational and occupational goals.
2. The student will review the existing major and minor programs.
3. The student will determine and demonstrate that existing majors and minors will not fulfill the student’s goals.
4. The student will employ critical thinking to prepare, with the assistance of an advisor and a committee of faculty, a detailed individually contracted major specifically tailored to that student’s needs.
5. The student will master the coursework and content of the agreed-upon major.
6. The student will develop increased self-knowledge, occupational knowledge, creativity, flexibility and organizational skill.

Step One:
Any sophomore or junior with a 3.0 or higher grade point average may select a member of the faculty of the college who is willing to be the advisor. With the advisor’s assistance, the student drafts a preliminary proposal which includes four elements:
1. A justification of the projected major (including evidence both of the validity of the proposed program and of the unavailability of suitable alternatives)
2. A rationale for the program
3. Evidence of the student’s capability to conduct independent study
4. A statement of the likely acceptability of the projected major to graduate schools or potential employers. The preliminary proposal is then presented to the coordinator.

Step Two:
The coordinator, after confirming the completeness of the proposal, may help the student bring together a suitable committee of at least three faculty members, a majority of whom are from the College of LAE. One member of the committee serves as chairperson. The coordinator forwards the student’s proposal to the committee chairperson for review.

Step Three:
The committee reviews the proposal, and if it is acceptable, requests that the student submit a more detailed proposal.

Step Four:
The student consults with his or her advisor and the members of the committee to develop the detailed proposal. The proposal contains a rationale and includes a complete list of courses which will be taken, the formal course descriptions and sequencing of courses where applicable. The proposal also contains a thorough report on the acceptability of the major to employers or graduate schools, depending on the student’s long term goals. The complete proposal is reviewed by the committee which can approve it, send it back for revisions or reject it.

Step Five:
The committee chairperson forwards the approved proposal to the coordinator who reviews it to make sure that college and university requirements are met. The coordinator may approve the proposal, send it back to the committee for changes or reject it. Upon the coordinator’s approval, an agreement is signed between the student and the college, and information is forwarded to the appropriate offices.
INFORMATION TECHNOLOGY SERVICES

Information Technology
www.uwplatt.edu/its
Information Technology Services provides for the communication and computing technology needs of the university community. Eager to assist students in the use of computing technology, ITS strongly encourages each student to make use of the excellent resources available on campus. Additionally, ITS provides computer support and troubleshooting for all faculty, staff, and students and manages and maintains the Pioneer Administrative Software System (PASS).

General Computer Access Labs
Located in the Markee Pioneer Student Center and Karrmann Library, GCA labs are available to all students from early morning to late night during the school term. Labs make available both PC and Macintosh systems and laser printers. Students have access to a variety of academic and productive software and laser printers. The Virtual Bears Den allows students to access GCA software and their network drives from anywhere they have internet access.

Wireless Network
ITS manages the wireless network for the campus, providing access for wireless-enabled devices. All of the academic buildings on campus have wireless access capabilities.

Campus Wiring Infrastructure
Every residence hall room and every classroom building have the wiring necessary for complete network and Internet access. ResNet, a satellite office of the ITS Help Desk, provides support for residence hall network access.

Internet Access
Each student receives a unique NetID and password that provides access to the UW-Platteville e-mail, computer network and many campus resources. Students may access the Internet in any lab, via wireless, or through a ResNet connection.

Help Desk
The Help Desk is the first point of contact for faculty, staff, and students with campus technology problems and questions. Contact the ITS Help Desk at 608.342.1400 or helpdesk@uwplatt.edu or stop by the first floor of Karrmann Library. You may visit our website at www.uwplatt.edu/help-desk or follow us on Facebook.

For the convenience of students in the residence halls, ITS maintains a satellite office, ResNet, in 122 Royce Hall. A list of ResNet services can be found at www.uwplatt.edu/resnet/what-does-resnet-do.

Media Technology Services
www.uwplatt.edu/mts
Media Technology Services, located in Pioneer Tower, provides a variety of services to faculty and students to support academic programs and projects. The areas of service include the following:

Equipment checkout
MTS loans cameras, digital still cameras, video projectors, and a variety of audio recorders to students for a one week at a time.

Educational and Promotional Recording Services
MTS Video and Audio records a wide range of activities on campus for a variety of purposes: guest lectures, event documentation, meetings, interviews, student presentations and pre-recording of lectures for later playback. Taping can be done in the classroom or on location. MTS can record cable television programs for instructional uses.

Duplication/Transfer Services
MTS duplicates videotapes and convert video files into numerous formats. MTS can also transfer photographs, PowerPoint and 35mm slides to videotape or DVD for classroom use. Duplication of DVD, CD, audiocassettes and VHS is also available.

Distance Education Support
The university has three facilities with the capability to transmit or receive video from a variety of sources using various technologies.

Screen Captures and Podcasting
MTS provides equipment and support for producing podcasts, screencasts and other digital media recordings. MTS has a screencasting lab equipped with both Macintosh and Windows operating systems. The lab also has the ability to convert PowerPoint presentations into QuickTime or Windows Media files. Portable podcast kits that will enable users to make audio recordings from the classroom or office are available for checkout.

Cable Television Services
MTS provides the on-campus residence halls with a 59-channel cable television system.
CAMPUS LIFE

Athletics
Director: Mark Molesworth
Location: 134 Williams Fieldhouse
Phone: 608.342.1567

The Pioneers participate in a full range of NCAA Division III sports activities during the academic year. UW-Platteville women compete in eight intercollegiate sports: basketball, cross-country, golf, soccer, softball, indoor and outdoor track and field, and volleyball. Men compete in eight intercollegiate sports: baseball, basketball, cross-country, football, soccer, indoor and outdoor track and field, and wrestling. Platteville is a member institution of the Wisconsin Intercollegiate Athletic Conference.

Up-to-date Pioneer information can be found at www.uwplatt.edu/athletics.

Children’s Center
Phone: 608.342.1260

The UW-Platteville Children’s Center provides excellent child care services and educational experiences for the children of UW-Platteville students, employees and Platteville community members. To be eligible for the reduced student rate, a parent must be registered for at least six credits as an undergraduate student during the academic year or for three credits during the summer session. Graduate students must carry at least five graduate credits.

The Children’s Center operates weekdays from 7:30 a.m. until 5:00 p.m. during the academic year, interim periods and summer session. Children must be between two and ten years of age to enroll.

Lead teachers, who hold a degree in the field of early childhood, staff the Children’s Center classrooms. College students seeking degrees primarily in education or psychology assist the classroom teachers. The Children’s Center also serves as a laboratory and research site for students learning about child development and early childhood practices. Located in their own facility north of Doudna Hall, the Children’s Center is a state licensed facility and is nationally accredited through NECPA (National Early Childhood Program Accreditation). For further information, visit us at www.uwplatt.edu/childrenc.

Confucius Institute
Contact: Mei Reeder
Office: 106 Royce Hall
Phone: 608.342.6014

The UW-Platteville Confucius Institute, established in 2008, is part of an international network with the Chinese Language Council International (Hanban) in Beijing and South-Central University for Nationalities in Wuhan, China. We serve the citizens of Wisconsin through outreach activities, including classes and lecturers for K16, seminars for educators, Mandarin and Chinese social etiquette for business in the Tri-State area, and credited Mandarin courses at the UW-Platteville for undergraduates.

The Confucius Institute Office provides university students with an opportunity to study in China with a full scholarship in pursuing a short-term study of Chinese or one to four years of study for degree-seeking students after earning a Bachelor’s degree. The Confucius Institute Library has more than 3,000 print and media materials and Mandarin CDs for students to check out.

The aim of the Confucius Institute is to:

• Provide Chinese language courses (credit and non-credit) for community members, K-12 and university students
• Offer lectures to the tri-state community on Chinese culture, business and language
• Host Chinese cultural events for university and community members
• Sponsor Chinese cultural programs at K-12 schools and university students
• Make available reference materials for community and K-12 schools
• Partner with public and private entities to serve the tri-state community, businesses and schools
• Advise individuals who wish to study, travel or do business in China

For more information, please call 608.342.1310, or log on to www.uwplatt.edu/confucius

Dining Services
Location: Administration, Markee Pioneer Student Center
Phone: 608.342.1160

A variety of food, beverage and nutritional services are provided at UW-Platteville. Dining Services provides a number of meal plan options for residence hall and commuter students. In addition, students may add cash to their meal plan for extra purchasing flexibility at all dining locations.

Stations - Conveniently located near the residence halls, our all-you-care-to-eat dining facility is housed in Bridgeway. Stations is a buffet-style set-up with hot, home-cooked entrees, deli favorites, Italian cuisine and a baked potato bar. Students can enjoy a super-sized salad bar, fresh-baked pastries and dessert items daily. In keeping with our campus goals, meal plan participants may consume as much food as they wish, but patrons share the responsibility of sustainability. Food waste is an ecological and economic issue that leads to an increase in meal plan costs.

Greenwood Avenue Market - A convenience store located in the lower level of Glenview Commons that offers burgers, pizza, grab and go deli items, a variety of groceries, beverages, health and beauty items. Recreation area includes pool tables, Wii stations and wireless Internet access. The seating area includes large screen TV’s and a breathtaking view of the south side of campus. Meal plans, Dining Dollars, Passport Funds or cash may be used for purchases.
Pioneer Crossing - A retail dining operation located in the Pioneer Student Center, where students can exchange a meal for a "cash equivalency" amount at breakfast, lunch and dinner. Dining areas include Mexican, Chinese and Italian cuisine, home-cooked entrees, made to order sub sandwiches, fast-food favorites, grab and go items, soup and salad bar and fresh-baked desserts.

Pioneer Haus - Students can enjoy specialty flatbread pizzas, wings, burgers and a wide variety of appetizers in a sports bar atmosphere while they watch their favorite sports on a big screen television. Bring your friends and play a game of darts or foosball and be sure to catch the open mic nights sponsored by Campus Programming and Relations.

Hickory & Main Corner Bistro - A convenient deli shop on the lower level of Ullsvik Hall to pick up pastries, sandwiches, snacks and beverages. This location features specialty focaccia sandwiches and two soups daily. We "Proudly Brew Starbucks® Coffee" and feature a full coffee bar and selection of tea. A convenient cafe lounge sits directly across from the deli shop.

Kristine’s Kafe - A convenience store located on the main level of Rountree Commons offers sandwiches, pizzas, salads, pastas, grab’n’go deli items along with a large variety of groceries, beverages, and health and beauty necessities. Offering the choice of having your food created to your specific liking, this dining location appeals to all students. Meal plans, Dining Dollars, Passport Funds or cash may be used for purchases.

Intramurals -
Location: 134 Williams Fieldhouse
Phone: 608.342.1568
Website: www.uwplatt.edu/intramurals
Intramurals provide the campus community with the opportunity to compete regularly in organized sports for recreation. There are three kinds of intramurals: women’s, men’s and co-ed sports (individual and team). Women’s sports include indoor soccer, broomball, football, badminton, basketball, racquetball, tennis and volleyball. Men’s sports include badminton, basketball, broomball, football, racquetball, indoor soccer, softball, tennis, volleyball and water polo. Co-ed sports include badminton, indoor soccer, softball, tennis, volleyball, water polo and football. Leagues are available for all students of all abilities.

Pioneer Activity Center -
Location: 134 Williams Fieldhouse
Phone: 608.342.1568
UW-Platteville extends a warm welcome to all potential members of the Pioneer Activity Center. The PAC allows students, faculty, staff and the general public to further their wellness and physical activities at a minimal cost. Membership rates for the year, month, semester or summer make lifetime conditioning programs available at member convenience. Whether it is walking the 200-meter indoor/outdoor oval track, swimming in the pool, playing basketball, volleyball, tennis or utilizing all aspects of the new 20,000-square-foot Fitness Center along with new state-of-the-art equipment (free weights, selectorized machines, two exercise studios, Kaiser spinning bikes, Precor treadmills, ellipticals and stationary bikes), members will find facilities to accommodate all. The addition of the new Fitness Center has enabled the university to double the number of users at any one time. It is the hope that a PAC membership will be the first step to a continued physical fitness program. For more information on membership costs and facility hours, contact the PAC director or visit the PAC website at www.uwplatt.edu/pac.

Student Centers -
Location: Markee Pioneer Student Center
Phone: 608.342.1160
Student Centers is the department responsible for administering and providing outstanding facilities, programs and services which serve as the center of the campus community. These facilities, programs and services include the following:

Design Services is responsible for providing graphic design services to assist with the promotion of student organizations, university departments and campus events.

Event Reservations is responsible for managing the requests to use event facilities in the Markee Pioneer Student Center, and Ullsvik Hall Velzy Commons; and facilitates requests for use of event facilities at the Ullsvik Hall Nohr Gallery with the Office of Arts Facilities and Series. Event Reservations assists in providing services and support to ceremonies, major events and university-sponsored events held throughout campus.

Operations and Services is responsible for the daily operation of the David J. and Lou Ann Markee Pioneer Student Center and its satellite operations, including Production Services, the Information Center, Markee building support services, and the Robert I. Velzy Commons in Ullsvik Hall. In order to effectively manage these facilities and services, Operations and Services provides a variety of student employment opportunities. The Markee is the primary college union facility at UW-Platteville, and hosts a variety of services for the campus community.

Production Services is responsible for providing event services, including facility arrangements, audio and video equipment, lights and staging for events taking place at the Markee, Ullsvik Hall (Velzy Commons and Nohr Gallery), and assigned university special events. The Information Center is responsible for offering information pertaining to university services and events, serving as the university’s switchboard, and providing limited copy and collating services. Velzy Commons is UW-Platteville's premiere multipurpose ballroom facility.

David J. and Lou Ann Markee Pioneer Student Center -
Phone: Student Centers
Administration: 608.342.1160
Information Center: 608.342.1491
Website: www.uwplatt.edu/student-center
Located at the crossroads of campus in the center of the academic community, the Markee opened on April 1, 2002. More than just a building, the Markee is the community center for the UW-Platteville campus. Incorporating the concepts of a technologically rich environment with both formal and informal events for students, faculty, staff and visitors, and the traditional social aspects of a student center, the Markee encourages the convergence of academic and social lives to promote learning that goes beyond the classroom.
Contained within the 96,000-square-foot facility are a variety of services and programs designed to enhance the learning environment and strengthen the UW-Platteville community. Nearly 200 computer workstations are placed throughout the Markee in a wide variety of settings, from highly structured environments to informal lounges. Over 100 computers are housed in the Bears Den computer lab, while approximately 20 computers are available in the Pioneer Involvement Center. All areas of the building have wi-fi access and laptop computers can be checked out at the Bears Den and used anywhere in the facility.

Dining Services locations offer patrons an array of food and beverage selections to enjoy while attending events, or just relaxing in the Markee. Events include live music, comedians, leadership conferences, organizational meetings and educational speakers. Events are sponsored by the more than 170 student organizations supported through the office space, common lounges and accessible technology. Other services available at the Markee include the University Bookstore, Pioneer Passport Office, Information Center and Rental Resources.

Cultivating enduring loyalty to the campus community, the Markee exhibits the heritage of the UW-Platteville campus. From the Alumni Lounge and Heritage Hall, community members can view the original Normal School bell, refurbished for the Markee as a commemoration of rich campus traditions. In the north area of Heritage Hall is a mural depicting historic buildings, locations and seals of campus. In the south windows of Heritage Hall is the University Seal. In the hallways adjacent to Heritage Hall, flags representing the nationalities of every student in attendance at UW-Platteville are proudly displayed to celebrate UW-Platteville's cultural diversity. For more information, stop by the Markee or visit the Markee website.

**Harry and Laura Nohr Gallery**

*Location:* 0400 Ullsvik Hall  
*Phone:* 608.342.2787  
*Website:* [www.uwplatt.edu/arts/nohr](http://www.uwplatt.edu/arts/nohr)

Located in the lower level of Ullsvik Hall, the Harry and Laura Nohr Gallery provides students the opportunity to see and experience art works created by students and professional artists of regional and national renown. The gallery is the ideal spot for students to browse during free time. Student and university organizations, university departments, as well as off-campus groups may reserve the Nohr Gallery for a variety of events.

**Performing Arts Series**

*Location:* University Box Office, Ullsvik Hall  
*Phone:* 608.342.1298  
*Website:* [tickets.uwplatt.edu](http://tickets.uwplatt.edu)

The Performing Arts Series sponsors an annual series of outstanding professional fine arts events from symphony orchestras to musical theatre. The performances are chosen and scheduled by a committee of students, faculty and staff. Past performances have included the Three Irish Tenors, Idina Menzel, Virsky Ukrainian National Dance Company, Cirque Le Masque, Trombone Shorty, Spring Awakening and Avenue Q. For ticket information, contact the University Box Office at 608.342.1298, or visit the PAS website.
The purpose of ICET (Instructional Center for Educational Technologies) is to:

- provide training/support of software programs used by students and instructors in the process of teaching and learning
- develop documentation associated with uses of software used in academic endeavors
- assist with research activities associated with using technology in the enhancement of the scholarship of teaching/learning
- identify resources and research results to showcase best practices in the area of educational technology
- provide opportunities for instructors to share their successes and learning opportunities when using educational technology

Providing Academic and Transitional Help (PATH)

Assistant
Director: Kia Hendirckson
Office: 120 Brigham Hall
Phone: 608.342.1081
E-mail: jorgensk@uwplatt.edu

The PATH Program is dedicated to creating opportunities for students to develop successful academic and social skills. The PATH staff members coordinate the Introduction to College Life courses and the Student Academic Success (SAS) seminars. SAS seminar topics include study skills, test taking strategies, note taking skills, time management, financial literacy, holistic living, appreciation for learning style differences, respect for diverse cultures, success in lab science courses, and advising and pre-registration process. Additional programs include academic advising for students that are academically at risk and transitional programs for transfer students. For more information, visit us at www.uwplatt.edu/PATH.

Instructional Center for Educational Technologies (ICET)

ICET’s Mission

The purpose of the Instructional Center for Educational Technologies is to:

- provide training/support of software programs used by students and instructors in the process of teaching and learning
- develop documentation associated with uses of software used in academic endeavors
- assist with research activities associated with using technology in the enhancement of the scholarship of teaching/learning
- identify resources and research results to showcase best practices in the area of educational technology
- provide opportunities for instructors to share their successes and learning opportunities when using educational technology

Karrmann Library

Website: www.uwplatt.edu/library

The Elton S. Karrmann Library provides expert help through professional librarians and experienced support staff at the service desks on three floors, on the phone 608.342.1668, through email reference@uwplatt.edu and via chat service www.uwplatt.edu/library/askalibrarian.html. Regular semester hours are 8 a.m.–11 p.m., Mon.-Thurs.; 8 a.m.–6 p.m. Fri.; 11 a.m.–6 p.m. Sat.; and 1 p.m.–11 p.m. Sun.

Help is provided using print, electronic and multi-media resources. The collections include 253,000 books, 62,000 electronic resources, 285 maps/atlas; over 100 subscription databases, many of which offer full-text journal articles; 90,000 government publications; 11,000 audiovisual materials; 1,000,000 microforms; and subscriptions to more than 1,200 periodicals, and 60 newspapers. Many more journal and newspaper titles are offered full-text online. A statewide interlibrary loan network connecting all University of Wisconsin libraries supplements these materials. Special collections include the Instructional Material Lab on the third floor and the University Archives in the Southwest Wisconsin Room on the lowest floor of Ullsvik Hall in the Luce Center.

The library’s web page, www.uwplatt.edu/library, accessible from the main UW-Platteville page, provides access to expert staff, all these resources and more. The library’s resources can be accessed either in the library from over 200 general access computers or remotely from computer labs, residence hall rooms, offices or homes. The library also offers a variety of study areas, reading rooms, audiovisual equipment including listening areas, assistive technology equipment, overstuffed chairs, and a café area with snacks and coffee for sale. The library is committed to supporting individual study and research. We also offer fun paperbacks, movies and current bestsellers for fun and relaxation.

Library Use Instruction

University librarians are available to provide library use instruction for individuals or any classes or to assist with any assignment-specific needs. Arrangements are made with the librarian assigned to work with a specific department. Call 608.342.1668 to find the librarian for your area.

Distance Education Support

The Karrmann Library provides support of information resources to faculty incorporating library components into distance learning environments and to students taking courses at a distance from UW System institutions.
The Mathematics Learning Center is staffed with tutors who will provide assistance to students. Students do not need to schedule an appointment, but can bring their questions in any time the MLC is open. Tutors will be willing to answer questions ranging in topics from basic mathematics to Calculus III. In addition, there are tutors available that can assist with problems in chemistry and physics. Schedules for the MLC change each semester, but daytime and evening hours are posted outside the MLC and online at www.uwplatt.edu/math/tutoring.htm.

Pioneer Academic Center for Community Engagement (PACCE)

Director: Kevin Bernhardt
Office: 522 Pioneer Tower
Phone: 608.342.6121
E-mail: pacce@uwplatt.edu
Website: www.uwplatt.edu/pacce/

The Pioneer Academic Center for Community Engagement (PACCE) is a center for leading and supporting Scholarship of Engagement including service and experiential learning. Support includes funding for student to practice their education through engagement in community-based projects where faculty, students and community partners work together to set goals, select and apply methods, and reflect and disseminate results. The center’s mission is to nurture a campus environment that empowers students, faculty and community partners to each Experience - Grow - Make a Difference.

PACCE administers the Pioneer Engagement Scholars program which provides funding to offset student expenses incurred in the implementation of community-based projects. Eligible expenses include travel, materials and supplies, professional or consulting fees, publication and other services. Projects must be for academic credit, include student, community and faculty partners, and involve significant and reciprocal interaction with community partners.

Textbook Center

Location: 360 Gardner Hall
Phone: 608.342.1948
Website: www.uwplatt.edu/math/tutoring.htm

The Textbook Center, located in 360 Gardner Hall, is open during normal business hours. The Textbook Center provides a helpful variety of services to students. Tutoring is available on a drop-in basis. Tutors and faculty advise students on course selection and help students develop effective study strategies. Student drop-in tutoring is also available.

Textbook acquisition is provided through the Textbook Center. Students can purchase or rent required textbooks through this center. Students may purchase their rented textbooks. Active titles are offered for sale to currently enrolled students year-round, excluding the months of September and January and finals week in December. All books purchased during sale times are discounted. Out-of-print titles are not sold.

Students are able to use the Textbook Center as a resource center after the first three weeks of classes. For more information, visit us at www.uwplatt.edu/textbookctr.

Writing and Tutoring Resources (WATR)

University Tutoring Services

Location: 314 Brigham Hall
Phone: 608.342.1615

University Tutoring Services (UTS) provides academic support for currently enrolled UW-Platteville students in a variety of undergraduate courses. Tutoring services are a means to supplement classroom instruction, foster independent learning, and assist students in improving their academic skills. UTS offers academic support for students through one-on-one tutoring or small group sessions facilitated by peer tutors. This assistance allows students to develop a deeper understanding of course concepts with the support of tutors who clarify difficult course material, review homework assignments, and provide motivation as role models. Individual and small group tutoring are supplemented by Differential Tuition.

Writing Center

Location: 303 Brigham Hall
Phone: 608.342.1615

The Writing Center offers free tutoring to all UW-Platteville students. We provide a friendly, stress-free environment for students in all academic areas to meet with one-on-one with a peer tutor and discuss any kind of writing, from freshman composition papers to upper-level research papers, lab reports, cover letters and anything in between. Students can work on any aspect of the writing process with peer tutors, from brainstorming and drafting to revision and proofreading. Our goal is to help students become more confident, effective writers by encouraging critical thought, offering advice on effective writing methods, and helping students to make effective writing choices in any writing situation. Sessions typically last thirty to forty-five minutes.

The Writing Center has a small computer lab and reference materials available for student use during hours of operation, currently Monday through Thursday, 9 a.m. to 7 p.m. and Friday, 9 a.m. to 4 p.m. The Writing Center will take drop-ins but encourages students make appointments, as the Center is often booked two to three days in advance.

Peer-Assisted Learning (PALs)

Location: 302 Brigham Hall
Phone: 608.342.1615

The Peer-Assisted Learning (PAL) program, a part of Tutors, known as Peer-Assisted Leaders, may assist students during class, labs, or discussion, and they may host drop-in office hours. PALs are available for free to all in courses that are participating in the PAL program. Visit www.uwplatt.edu/watr/pal-program for more formation.
Despite this, cost in their future.

toward their degree are also available over the spring, winter, and summer breaks. Programs are available in more than 50 different countries across the globe, and students return having not only earned credit toward their degree, but, more importantly, making an investment in their future.

Individual program costs vary based on a variety of factors, such as: the cost of living and location of the program site, level of support and the number of excursions or other group activities included, program length, tuition of the host institution, accommodation style, personal lifestyle, exchange rate, airfare, cost of additional travel, and more.

In many cases, it is true that an education abroad program will cost more than the normal semester expenses at UW-Platteville. Despite this, many students decide to go abroad for the following reasons:

- affordability provided by the UW-Platteville International Study Grant (up to $1,800)
- financial aid applies to program costs and additional grants and scholarships are available
- the realization that there are many affordable program options to choose from
- increased marketability after graduation
- recognizing that the experience of going abroad is worth the cost, and there is no better time to discover the world!
Level III: Intermediate
Students at the intermediate level are approaching readiness for academic study but still have some significant weaknesses using their English skills. This level is designed to broaden and deepen students’ linguistic foundation as well as to refine their language skills within a communicative academic context. Intermediate level instruction classes consist of:

- ESL 131 Intermediate Listening and Speaking
- ESL 132 Intermediate Reading and Vocabulary
- ESL 133 Intermediate Writing and Grammar
- ESL 134 U.S. Culture
- ESL 135 Special Topics for Intermediate Level (Elective)

Level IV: Advanced I
Students at the Advanced I level will focus on improving their general language proficiency for practical, social, academic, and intercultural needs. Instruction at this level is designed to familiarize students with organizing, paraphrasing, summarizing, and synthesizing in English in both spoken and written forms. Advanced I level classes consist of:

- ESL 141 Advanced Listening and Speaking
- ESL 142 Advanced Reading and Vocabulary
- ESL 143 Advanced Writing and Grammar
- ESL 144 Topics in U.S. Higher Education
- ESL 145 Special Topics for Advanced I Level (Elective)

Level V: Advanced II
Students at the Advanced II level are nearly ready to begin academic study or participate with confidence in professional settings. ELP courses at Advanced II level will focus on improving students’ academic language proficiency and preparing them for success in college-level courses. Advanced II level classes consist of:

- ESL 151 Academic Listening and Note-taking
- ESL 152 Academic Speaking
- ESL 153 Academic Reading and Writing
- ESL 155 Special Topics for Advance II /Bridging Level (Elective)

Please note: Beginning Level I and II ELP programs are not available at this time but will added to the ELP curriculum at a later date.

Student Credit Load
A full time ELP student should take a minimum of 12 credits during a regular semester.

Credit Hours/Clock Hours
UW-Platteville English Language Program: ESL Credits and Clock Hours Conversion

- 15 ESL credits = 25 clock hours
- 12 ESL credits = 20 clock hours
- 9 ESL credits = 15 clock hours
- 6 ESL credits = 10 clock hours
- 3 ESL credits = 5 clock hours

1 clock hour = 50 minutes of classroom instruction

All ESL courses are non-degree credit courses that do not count towards graduation credits.

Concurrent Enrollment in Undergraduate courses
Students at Level V Advanced II/Bridging are eligible to take 1-6 undergraduate credits upon the recommendation of the ELP coordinator in addition to completing a minimum of 9 required ESL credits.

English Language Program Satisfactory Progress Rules
A student may repeat a required ESL course at any given level only once.

Office of Multicultural Student Affairs
Director: Angela Miller
Location: 133 Warner
Phone: 608.342.1555
Website: www.uwplatt.edu/multicultural

The mission of the Office of Multicultural Student Affairs is to support retention and academic attainment for African-American, Native American, Latino/a, and Asian students. Our goal is to help these underrepresented minority students successfully navigate higher education, seek leadership opportunities, and prepare for their professional and educational futures.

OMSA serves pre-college and college undergraduate students with youth outreach programming, leadership development, college advising, and programmatic services including; DRIVEN Scholars, the RISE Program, and the Lawton Grant Program.

Patricia A. Doyle Center for Gender and Sexuality
Location: 136 Warner Hall
Phone: 608.342.1453

The Patricia A. Doyle Women’s Center serves as UW-Platteville’s central contact for resources and support for women on campus. The Women’s Center is committed to creating an environment where women receive equal opportunities and are empowered to utilize their talents and efforts to their fullest extent. The center provides all students, faculty and staff with resources related to women’s issues such as books, magazines, journals and videos. The Women’s Center seeks to honor the contributions and experiences of women of all ages, classes, physical conditions, sexual orientation, gender identity, spiritual beliefs and ethnic origins. Programming, fostering connections, providing resources and advocating for equitable situations for women are the Women’s Center’s main activities. The Women’s Center also houses the Alliance office for the lesbian, gay, bisexual, and transgender (LGBT) organization on campus. For more information, visit us at www.uwplatt.edu/womensctr, www.facebook.com/PatriciaADoyleWomensCenter, or e-mail womensctr@uwplatt.edu.
Services for Students with Disabilities (SSWD)

Director: Laura Franklin
Location: 103 Warner Hall
Phone: 608.342.1818 (Voice and TTY)

Services for Students with Disabilities works to ensure that no qualified student, solely by reason of disability, be denied access to, participation in or the benefits of, any academic program or activity offered by the university.

The office provides:
- Information about university services to potential and present UW-Platteville students with disabilities
- Assistance in obtaining reasonable academic accommodations and/or auxiliary aids
- Assistance in obtaining access to academic services, programs, activities and facilities
- Referral to appropriate sources for non-academic accommodations
- Advocacy for campus and community needs
- Technical assistance to university departments, assisting in identifying accommodations and providing services and responses on a case-by-case basis

To arrange academic accommodations, students with disabilities must request reasonable accommodations; provide the Office of Services for Students with Disabilities with sufficient, current disability-related documentation from an appropriate licensed professional; and describe the impact of their disability in an academic setting. The SSWD office reviews disability documentation and verifies that the documentation satisfies disability verification guidelines. The student meets with the SSWD staff for an intake to determine reasonable academic accommodations. At the conclusion of the intake process, students receive a VISA and information about how to implement each of the recommended academic accommodations. It is then the responsibility of the student to meet with each course instructor to discuss the accommodation recommendations. Students are expected to engage in appropriate and responsible levels of self-advocacy in obtaining and arranging for accommodations or auxiliary aids. There is no cost to students for assistance provided by SSWD. Visit us at www.uwplatt.edu/disability.

Student Support Services

Director: Laura Franklin
Location: 105 Warner Hall
Phone: 608.342.1816

Student Support Services provides assistance to students who may need extra support to succeed in college. Learning skills sessions, study skill groups, counseling/advising and tutoring are available at no charge. Students develop their own program with the assistance of a staff member. All sessions are arranged around a student’s work and class schedule.

Participation in programs offered by Student Support Services is limited to students who meet qualifying criteria. The U.S. Department of Education, which funds this program, requires that each participant be in at least one of the following three categories:
- first-generation college students (neither parent currently has a four-year college degree);
- income eligible students (based on taxable income); or,
- students with documented disabilities.

Available services include:
- Tutoring - Tutors for many courses are ready to help you today!
- Advising/Counseling - Meetings with a counselor are available for those students who wish additional information and support regarding academic, personal, and career planning concerns. For more information contact Sharon Pink, 111 Warner Hall, 342-1811.
- Workshops - Helpful non-credit workshops are offered each semester
- Learning Specialist - Individualized meetings can be arranged for assistance with learning styles and study skills, support/advocacy, and progress monitoring.
Assistant Vice Chancellor of Student Affairs:
Dr. Laura Bayless
Office: 2500 Ullsvik Hall
Phone: 608.342.1854

Academic and Career Advising Center (ACAC)
Director: Jennifer Williamson
Location: 0200 Ullsvik Hall
Phone: 608.342.1183
The Academic and Career Advising Center provides students with a full spectrum of academic advising and career development services in one location. Students can get assistance whether they are trying to determine their major or ultimate career all the way through to finding that first job upon graduation. Services include:
- academic major/career exploration for any student (includes career inventories)
- academic advising for undeclared students
- general resource for academic advising questions
- assistance with résumé writing, cover letters, mock interviews, salary negotiation, professional dress and other elements of the career search process
- Pioneer Career Network (PCN)
- Fall/Spring Career Fairs
- campus interview opportunities for internships and full-time positions

Counseling Services
Director: Deirdre Dalsing
Location: 220 Royce Hall
Phone: 608.342.1865
Professional counselors provide free, confidential personal and academic counseling to enrolled students. Services are directed toward helping students develop competence and confidence, manage emotions, enhance relationships, make decisions and improve coping skills as they strive to meet their academic goals and achieve personal growth. Areas of assistance cover emotional and social concerns, career assessment and decision-making, study skill development, stress management, depression and anxiety and related issues. Tests and inventories are also available to facilitate the counseling process. Counseling Services facilitates a support group for gay, lesbian, bisexual and transgendered students, and provides Safe Zone training to the campus community.
Counseling Services maintains an Alcohol and Other Drug Abuse Education Program, which offers information, counseling, outreach and referral services related to the use and abuse of alcohol and other drugs.
On-line workshops (15 Ways to Get A’s; Success with Stress; and Healthy Relationships) are available through our website. Visit us at uwplatt.edu/counseling.

Dean of Students
Dean: Sherry Nevins
Location: 1300 Ullsvik Hall
Phone: 608.342.1854
The Dean of Students Office provides an array of services and programs to support UW-Platteville students by promoting a supportive and socially responsible campus community, advocating for the needs of all students, encouraging student leadership and accountability, and providing crisis services and conflict resolution. The Dean of Students Office strives to promote a holistic learning experience by providing programs and services that develop students intellectually, socially and ethically through our four key principles: student support, student advocacy, student engagement, and student success.

Greek Life
Location: Pioneer Involvement Center, Markee Pioneer Student Center
Phone: 608.342.1075
Website: uwplatt.edu/go/pioneerlink
The Pioneer Involvement Center is responsible for Greek Life and the Greek Life staff is dedicated to assisting in creating a positive living, learning and governing environment for students interested in the Greek Community. Annually members submit data for the Greek Achievement report with the focus is on: scholastics/academic achievement; civic outreach along with volunteer community service and philanthropic raising funds or items for others; leadership and ethical development; membership recruitment and development; chapter advancement; campus, community and university relations; social event responsibility; judicial operations; and values congruence by acting as you say you will.
Our Greek Chapters have missions that are deeply rooted in providing service to others. For example during 2011-12, the Greek Community, which includes 16 social and professional fraternity and sorority chapters and their governing councils, participated in more than 2,100 community events, spending more than 14,800 hours engaged in service. Some of their activities included bell ringing for the Salvation Army, walking dogs and cleaning cages for the Dubuque Humane Society, taking a number of disabled people on a hunting weekend, highway clean up, tutoring, city hall auditorium cleaning, hosting bingo/spa day/caroling at senior centers, donating blood, donating food to the food pantry, raking leaves, shoveling snow and much more.
The Pioneer Involvement Center (PIC) is on the first floor of the David J. and Lou Ann Markee Pioneer Student Center (MPSC). The general access computer lab allows students to work independently or with a group. Comfortable furniture and friendly environment provide a “home away from home” atmosphere.

The mission of the Pioneer Involvement Center is: to create collaborative, co-curricular programs, events and processes to support student leadership, involvement and volunteer experiences contributing to student retention and encouraging diversity.

Several functional areas offer programs, services and resources to promote student involvement:

- Greek Life
- Student Organization Development
- Leadership Involvement Volunteer Experiences (LIVE)

Research indicates students involved during their collegiate years are more satisfied with their campus experiences, more successful academically, understand time management, complete their degree program and engage in physical, emotional and psychological energy. Students also report these positive results are based on one of the following five conditions if they:
  1. lived on campus;
  2. worked on campus;
  3. developed significant relationships with faculty/staff;
  4. participated in significant research projects; and/or
  5. were involved with student organizations.

Pioneer Involvement offers strategies to connect students to a wide variety of involvement opportunities. When you think about your previous experiences, being involved built self-esteem and kept you informed of local activities and events. The staff will assist you in finding your niche.

Based on research, the PIC staff is dedicated to strengthening Leadership, Involvement and Volunteer experiences to assist students with building skills to work with others. Many opportunities exist for students seeking individual or group experiences.

Rental Services

Coordinator: Diane Lind
Location: Pioneer Involvement Center, Markee Pioneer Student Center
Phone: 608.342.6117
E-Mail: rent@uwplatt.edu
Website: www.uwplatt.edu/rental-resources

Rental Resources assists students with off-campus housing-related concerns and needs. Rental Resources strives to educate students in leases, rights and responsibilities while renting, roommate communication and much more. A current list of off-campus rental properties is available online and hard copies are available at the Information Center and at the Rental Resources office, both located in the Markee Pioneer Student Center.

Rental Resources Coordinator acts to promote positive relations and open communication between the university, students, landlords, community members and the city of Platteville. Rental Resources is part of the Student Affairs Department and is located in the Pioneer Involvement Center. For more information, stop by the PIC in the Markee.

Residence Life

Director: Linda Mulroy-Bowden
Location: First Floor Royce Hall
Phone: 608.342.1845
E-mail: reslife@uwplatt.edu
Website: www.uwplatt.edu/residence-life

Living on campus in one of the 12 residence halls will provide students with special opportunities for growth, learning, fun and friendship. Residence hall living is an integral part of the college experience. Sharing a portion of the mission statement can summarize the primary purpose of the residence halls. Student life at UW-Platteville strives to create an environment that supports individual choice, develops a sense of community and emphasizes individual and group responsibility. Each hall is a community of approximately 240-600 residents, with a total residence hall population of over 3,700 students. Halls are conveniently located, computer networked, and well maintained. Full-time, professional hall directors live in each hall and are supported by student resident assistants who reside on each wing or floor. Staff members in each building are carefully selected, specially trained and willing to help students have a successful campus living experience.

UW-Platteville Residence Life offers living learning communities and interest communities as opportunities for students to combine their academic and co-curricular college experience. Information related to LLC’s and IC’s is available on our website www.uwplatt.edu/residence-life.

Residents with personal computers that meet or exceed the minimum computer configuration specifications have direct access to computing resources from within their individual room. Computer labs in each residence hall are also available 24 hours a day. See http://www3.uwplatt.edu/resnet/resnet-lab-machines for detailed information. A unifying link within the residence hall community is the Residence Hall Association. Students elected to serve as representatives of this governance body promote an interest in and understanding of the campus environment and serve as a general forum for improving residence hall life.

UW-Platteville has an on-campus residence hall requirement that derives from a University of Wisconsin Board of Regents policy that requires freshmen and sophomore students to live in university residence halls during the academic year unless they qualify for an exception and are officially released by the Department of Residence Life. After being admitted to the university, students receive an application packet of information including descriptions for residence halls and a letter and form explaining the procedure to request an exception to the on-campus residency requirement. This residency requirement is enforced, and students must provide the information necessary to confirm their compliance with it. Please direct any questions to the Department of Residence Life. Students can sign up for room reservations on-line at www.uwplatt.edu/residence-life.
Student Health Services Director:
Vickie Dressens
Location: Second Floor, Royce Hall
Phone: 608.342.1891
Website: http://www.uwplatt.edu/studenthealth/

UW-Platteville Student Health Services provides a broad range of primary health care services to the campus community. These include acute care for illness and emergencies, health and wellness promotion, and opportunities for students to participate actively in their own health care. Most health care services are available at no charge to all UW-Platteville students carrying three or more credits per semester. Students are responsible for those expenses incurred outside SHS (such as consultations with private physicians, referrals for specialty care if needed, x-rays, prescribed medications and some laboratory work). A directory of medical services provided on campus and in the community is available at the SHS office. Physicians, nurse practitioners and registered nurses provide care to students. SHS, located on the second floor of Royce Hall, is open Monday through Friday from 7:45 a.m. to 4:15 p.m. Students may call 608.342.1891 to schedule an appointment or to obtain additional information.

A student health insurance plan providing hospital, surgical, outpatient and major medical coverage is available at a reasonable cost to students. Students are strongly encouraged to obtain health insurance if they are not already covered by personal or family plans. Information concerning the student group insurance plan and enrollment deadlines is available on the Student Health Services web page at http://www.uwplatt.edu/studenthealth/insurance.html. Enrollment is available to all registered students taking 5 or more credits.

Student Organization Development
Location: Pioneer Involvement Center,
Markee Pioneer Student Center
Phone: 608.342.1075
Website: uwplatt.edu/go/pioneerlink

The Pioneer Involvement Center manages the needs for Student Organization Development. One way you can “get connected” is to join one or more of the active student organizations. With more than 200 registered student organizations, it is easy to find something you are interested in to fill spare time. If you cannot find one of interest, you can create your own. All you need is 10 friends and a faculty/staff member to serve as the advisor. To start a new group, contact the PIC staff.

As part of student organization development, the PIC offers an online central management and networking tool called PioneerLink. This tool allows UW-Platteville students to interact with student organizations by communicating with each other in a user friendly way. PioneerLink includes event notices, forms, documents, organization files storage location and a Facebook connection. To learn more about specific student organizations visit uwplatt.edu/go/pioneerlink.

During New Student Registration in the summer, new students created an account on PioneerLink and submitted a request to join several student organizations. Each group’s president and/or advisor were sent emails indicating each student’s interest in joining. Do not wait for the group to get back to you, research when they have their first meeting in the fall or look for their events in the event section. Go to the Involvement Fairs to check out 20 different groups each day.

By becoming a member of a student organization, you will have opportunities to explore and develop leadership and communications skills. The enjoyment of collaborating and achieving goals, as well as the interpersonal connections, creates one of the most valuable experiences that you will have at UW-Platteville.

The Pioneer Involvement Center houses several student governance organizations on campus. Student Senate, Residence Hall Association (RHA), Segregated University Dee Allocation Commission (SUDEC), Presidents’ Council, and United Greek Council (UGC).
The College of Business, Industry, Life Science and Agriculture offers degree programs in agriculture, biology, business and accounting, media studies and industrial studies. With its emphasis on both theoretical and applied knowledge, the college is committed to educational excellence within a diverse learning community. As a resource center, BILSA promotes cooperative interactions with organizations in the public and private sectors.

Our faculty believe in assisting students to become lifelong learners, develop clear thinking and possess a healthy curiosity. Students are encouraged to diligently pursue intellectually stimulating activities beyond those typically taught in the academic classroom. Courses in humanities, communications, sciences and mathematics are required of all majors to help prepare them to enter a rapidly changing and increasingly international workforce. Required core courses in each major ensure the breadth of technical, analytical, scientific and business knowledge and skills necessary for future success. Finally, students’ upper-level study in majors, minors or emphasis areas provides in-depth study in a particular field of specialization.

Professional Programs
The College of BILSA provides professional programs of study for students seeking to enter careers in a wide variety of fields. Demand for graduates of all programs offered within the college is exceptional. People who graduate from the college can seek careers with both private and public entities, and are able to pursue continued education in graduate or professional programs.

Internship Opportunities
Most programs within the college offer the opportunity for internships, which are supervised, applied experiences related to the program of study. Students can earn academic credits while earning a salary in these programs. Many opportunities exist for this experience. Faculty work closely to assist students in gaining the best experience which will enhance employment opportunities upon graduation. Employers speak very highly of the college’s internship program.

Extracurricular Activities
The college strongly believes that students should have an opportunity to participate in a wide variety of activities associated with their major studies. Over 35 student clubs and organizations are available within the college to allow students to gain experiences within their area of interest. These organizations work cooperatively with the departments/schools to incorporate activities which will broaden the students’ educational experiences.

International Education
Many social science and humanities courses which can fulfill program requirements are available through UW-Platteville’s Education Abroad Programs in Australia, China, England, Fiji, Italy, Japan, Spain and others. In selected majors, BILSA has one-to-one student exchange programs in partnership with universities in the Netherlands, France, Sweden, Australia, Norway and Ireland.

Alternate Delivery Methods
BILSA offers a print-based and online degree program in business administration for students unable to attend on-campus classes. This program allows participants the opportunity to obtain their entire college degree without leaving their geographic location. For more information about this program, refer to the UW-Platteville School of Business.

Entrepreneurship Minor
The Entrepreneurship minor is designed for students in any major who are interested in developing their ideas either by starting their own business or working within a company. All that is required is an entrepreneurial spirit!

The 24-credit minor includes non-business and business tracks and allows students elective choices to pursue their entrepreneurial interest. The minor has a strong experiential component—50% of the curriculum can be described as “active learning.” Learn it by doing it!

Other entrepreneurship education opportunities beyond the curriculum minor include:

- Pioneer Launch Lab
- Elevator Pitch & Business Plan competition
- Networking events
- Collegiate Entrepreneurs’ Organization

More information can be found at www.uwplatt.edu/entrepreneurship.
Required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTRP 1020</td>
<td>Introduction to Entrepreneurship</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENTRP 2010</td>
<td>The Social Context of Creativity, Innovation,</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>and Entrepreneurship (also counts as a social</td>
<td></td>
</tr>
<tr>
<td></td>
<td>science general education)</td>
<td></td>
</tr>
<tr>
<td>ENTRP 3050</td>
<td>New Venture Planning: Social, Commercial,</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>Artistic, and Scientific Ventures</td>
<td></td>
</tr>
<tr>
<td>ENTRP 3060</td>
<td>New Venture Operations</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENTRP 4070</td>
<td>Entrepreneurship Field Experience</td>
<td>6 cr</td>
</tr>
</tbody>
</table>

(must include 3 cr capstone reflection; other pre-approved course(s))

Pre-approved Elective Course(s)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUSADMIN 2330</td>
<td>Leadership and management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGBUS 1500</td>
<td>Intro. to Agribusiness</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2630</td>
<td>Intro. to Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGBUS 2430</td>
<td>Ag. Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING 2010</td>
<td>Financial Accounting</td>
<td>3 cr</td>
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</table>

(A) Business Track

(B) Non Business Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTRP 2030</td>
<td>Accounting and Financing for Entrepreneurs</td>
<td>3 cr</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTRP 2040</td>
<td>Management and Marketing for Entrepreneurs</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

SCHOOL OF AGRICULTURE

www.uwplatt.edu/soa

Director: Michael E. Compton
Office: 218 Pioneer Tower
Phone: 608.342.1393
E-mail: soa@uwplatt.edu

Professors:
Christopher Baxter
Kevin Bernhardt
Richard Bockhop
Michael Compton
Annie Kinwa-Muzinga
Rami Reddy
John Tembei
Mark Zidon

Associate Professors:
Swagata Banerjee
Donita Cartmill
Tera Montgomery
Charles Steiner

Assistant Professors:
Erin Alava Matthew
Akins James
Hampton Krista
Hardyman Yari
Johnson
Muthusubramanian
Venkateshwaran

Academic Department Associate:
Jane Menke

Majors

Agribusiness Major:
Commodity and Price Analysis Emphasis
Communications and Marketing Emphasis
Comprehensive Emphasis
Agricultural Engineering Technology Emphasis
International Emphasis
Management Emphasis

Agricultural Education Major:
Comprehensive Emphasis
Agricultural Education and Technology Education Emphasis
Agribusiness (Non-Teaching) Emphasis

Animal Science Major:
Agribusiness Emphasis
Dairy Emphasis
Livestock Production Emphasis
Pre-Veterinary Medicine Emphasis
Science Emphasis
Veterinary Technician Emphasis

Environmental Horticulture Major:
Breeding and Genetics Emphasis
Greenhouse and Garden Center Management Emphasis
International Emphasis
Professional Landscape Management Emphasis

Reclamation, Environment and Conservation Major:
Biological Emphasis
Soil and Crop Science Major:
Comprehensive Emphasis
International Emphasis
Plant Breeding and Genetics Emphasis

Minors
Agribusiness
Agricultural and Industrial Engineering Technology
Animal Science
Biotechnology
Environmental Horticulture
Soil and Crop Science

Pre-Professional Programs
Pre-Veterinary Medicine

School of Agriculture Mission
The School of Agriculture at the University of Wisconsin-Platteville is committed to excellence in undergraduate education and research, scholarly and professional activities, and service to the agriculture industry at the state, national and global levels.

School of Agriculture Vision
The School of Agriculture will be recognized as a world leader in undergraduate programs in agriculture, natural resources, and agro-ecology research. We require students to participate in high impact practices such as hands-on activities, internships, cross-cultural or international programming, service learning, research, or other creative activities. Our graduates will be known as professionals with the ability to communicate and creatively apply their knowledge of agriculture to solve problems. Our faculty, staff, and students will be engaged in the discovery and transfer of knowledge through research, and be prepared to anticipate and effectively respond to changes and challenges in agriculture and higher education by partnering with agriculture stakeholders. We will be committed to finding creative ways to identify resources to support our research, educational, outreach and service programs.

Basic Values
To achieve its vision, the School of Agriculture at the UW-Platteville is committed to the following values:

1. Development of a diverse and supportive academic community within the School of Agriculture, both on campus and at the Pioneer Farm
   • Attract and retain the best possible faculty, staff, and students with diverse backgrounds and perspectives who all share a desire to strive for excellence in their knowledge of agriculture and service to the agriculture industry
   • Build respectful and trusting collegial relationships, valuing professional autonomy while emphasizing collaboration and team-building
   • Support innovation, entrepreneurialism, and reasonable risk while welcoming change and embracing flexibility
   • Celebrate victories by recognizing the accomplishments of individuals and outcomes of collaborations.

2. Foster a culture of collective vision, leadership, and public accountability
   • Uphold a commitment to the well-being of all programs in the School of Agriculture, UW-Platteville, and the agriculture industry
   • Foster communication, transparency, collaboration, and joint decision-making
   • Empower faculty and staff by aligning their individual strengths and interests with specific goals and objectives
   • Encourage visionary and holistic thinking in executing the shared mission and vision
   • Promote student engagement with faculty, staff and each other
   • Maintain a balanced focus on students, community, institution and individual disciplines in agriculture and natural resources

3. Providing quality education in agriculture and resource management
   • Develop engaging curricula that meet the needs of agriculture while helping students develop conceptual, technical, and professional skills
   • Ensure that program requirements and curricula in all majors are student-centered, emphasize individual and group learning, prepare students for professional careers in agriculture, and align with the mission and vision of the School of Agriculture
   • Seek stakeholder input during curriculum development and implementation

4. Conducting quality research in agriculture and sustainable resource management
   • Encourage active scholarship by students, staff and faculty
   • Actively engage stakeholders for their input during all phases of research and honor public accountability

5. Reaching out and serving the agriculture industry and community stakeholders
   • Enhance the quality of outreach and service by developing partnerships and improving our engagement with the agricultural community
   • Enhance public awareness and support of agriculture and natural resources
   • Foster community outreach, service, and leadership

6. Developing a culture of critical reflection
   • Emphasize individual and collective self-reflection
   • Continually evaluate and assess data to monitor program quality objectives

7. Securing sufficient resources to support the mission and vision of the School of Agriculture
   • Identify and secure resources to recruit, develop, and retain outstanding and diverse faculty, staff, and students as well as support our academic programs, research, outreach and community service endeavors
   • Collaborate closely with the UW-Platteville Foundation to identify fundraising objectives and supporters of the School of Agriculture
   • Engage stakeholders from the agriculture industry and community in resource acquisition
Programs of Study
Students in the School of Agriculture may choose from six possible majors: agribusiness; agricultural education; animal science; environmental horticulture; reclamation, environment and conservation; and soil and crop science. Emphases are available within each program that allow students to specialize their program of study, and an international emphasis is available in agribusiness, environmental horticulture, and soil and crop science for students that desire to extend their education beyond the borders of the United States. Available minors include agribusiness, animal science, biotechnology, environmental horticulture, and soil and crop science. Specific details about these programs are provided with the description of individual majors. Students interested in veterinary medicine may enroll in the pre-veterinary medicine program or work towards a veterinary technician emphasis.

Classroom instruction within the field of agriculture requires experimentation, observation and practical application of scientific principles. Students majoring in agriculture use classroom laboratories and Pioneer Farm, our 430-acre laboratory and demonstration property, for their coursework. All students have the opportunity to observe and apply approved management practices in animal science; feed processing and storage; farm power and machinery; and crops, soils and water conservation. In classroom laboratories, students learn the applications of biotechnology, computer technology and engineering technology in agriculture.

At Pioneer Farm, our activities are centered on a systems approach toward sustainable agriculture and agricultural ecology. Our livestock program includes dairy cattle, beef cattle and swine.

Global positioning systems (precision farming) are used for field crops. Agricultural field machinery and farmstead equipment are available for observation, test and analysis. Opportunities for applied research are also available at Pioneer Farm.

The Pioneer Greenhouse and Gardens Complex consist of an 8,000-square-foot, high-technology greenhouse range and the Dottie Johns Pioneer Garden. A classroom equipped with 30 student workstations is located in Pioneer Greenhouse. The Dottie Johns Pioneer Garden is an outdoor laboratory composed of theme garden areas that are primarily used by students majoring in environmental horticulture and professional landscape management.

Internship Program
The School of Agriculture internship program offers students an opportunity to experience a career firsthand while earning college credit. Internships are available in all areas of agriculture, including plant and animal breeding, soil conservation, farm equipment and machinery, food processing and canning, farm supply and service, agricultural credit, agricultural engineering, marketing and business management, federal crop insurance, statistical reporting services, plant and animal nutrition, greenhouse and nursery production, landscape design and management, public and private environmental horticulture and farm management. Student internships are obtained by contacting individual businesses and submitting an internship application to the School of Agriculture internship coordinator. Students must register for the Internship Course and satisfactorily complete the program requirements to receive college credit. Students majoring in agribusiness, environmental horticulture, and soil and crop science are required to complete at least one, three-credit internship before graduation. Students in agricultural education are required to complete a student teaching experience before graduation.

School of Agriculture Organizations
All students are encouraged to participate in extracurricular activities such as athletics, music, art, drama, judging teams and student clubs, organizations, and fraternities or sororities. The School of Agriculture supports 18 campus clubs and student organizations as well as competitive judging teams that represent all of our disciplines. These organizations provide practical learning experiences as well as an excellent opportunity to meet people and improve communication and leadership skills.

General Requirements
Bachelor of Science Degree
Total for graduation .................................................. 120 credits
General education ...................................................... 44-53 credits
School of Agriculture core curriculum ........................ 11 credits
Major studies ............................................................. 36-60 credits
Minor studies ............................................................. 24 credits

School of Agriculture Core Curriculum
(11 credits)
All students with a major offered through the School of Agriculture are required to complete requirements in the core areas outlined below:

Agriculture Professionalism
Complete at least 2 credits:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AGBUS 1000</td>
<td>Agribusiness Professional Development I</td>
<td>1 cr</td>
</tr>
<tr>
<td>AGBUS 3450</td>
<td>Agribusiness Professional Development II</td>
<td>1 cr</td>
</tr>
<tr>
<td>AGET 4790</td>
<td>Materials Handling and Energy Seminar</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI 3310</td>
<td>Soils, Crops and Ornamental Horticulture Seminar</td>
<td>1 cr</td>
</tr>
<tr>
<td>ANSCI 4990</td>
<td>Animal Science Capstone (plus pre-req ANSCI 2990)</td>
<td>2 cr</td>
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</table>

Professional Engagement
Complete at least 3 credits:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGET 4580</td>
<td>Agriculture and Industrial Engineering Technology Internship*</td>
<td>3 or 6 cr</td>
</tr>
<tr>
<td>AGBUS 4580</td>
<td>Agribusiness Internship*</td>
<td>3 or 6 cr</td>
</tr>
<tr>
<td>ANSCI 4970</td>
<td>Animal Science Internship*</td>
<td>3 or 6 cr</td>
</tr>
<tr>
<td>ENVHORT 4580</td>
<td>Environmental Horticulture Internship*</td>
<td>3 or 6 cr</td>
</tr>
<tr>
<td>SCSCI 4580</td>
<td>Soils and Crop Science Internship*</td>
<td>3 or 6 cr</td>
</tr>
<tr>
<td>AGBUS 4590</td>
<td>Individual Study in Ag Industries</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>AGET 4990</td>
<td>Individual Study in ESPS</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>ENVHORT 3370</td>
<td>Undergraduate Research in Environmental Horticulture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>SCSCI 3380</td>
<td>Special Problems in Soil Science</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>SCSCI 3390</td>
<td>Special Problems in Crop Science</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>ANSCI 4200</td>
<td>Independent Study in Animal Science</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>
ANSCI 4980 Undergraduate Research 1-3 cr
in Animal Science
RECLAM 4660 Cooperative Field Experience 3 cr
RECLAM 4920 Independent Study 1-3 cr
TEACHING 4660 Student Teaching** 12 cr
*Internships are required for students majoring in Agribusiness, Environmental Horticulture, and Soils and Crop Science. **TEACHING 4660 is required for students majoring in Agricultural Education.

Agriculture Foundation Courses
Select at least two (6 credits)***:
AGBUS 1500 Introduction to Agribusiness 3 cr
AGET 1750 Equipment, Structures, 3 cr
and Power Systems
ANSCI 1000 Introduction to Animal Science 3 cr
SCSCI 1260 Crop Science 3 cr
RECLAM 1010 Introduction to Reclamation 3 cr
***One course must be in the students' major.

Agribusiness
Contact: Annie Kinwa-Muzinga
Office: 214 Pioneer Tower
Phone: 608.342.1007
E-mail: kinwamu@uwplatt.edu

Mission of the Agribusiness Program
Wisconsin's agricultural industry of production, processing, distribution, retail and services generates $84 plus billion in annual state revenue per year, making it the largest industry in Wisconsin. Wisconsin's agricultural industry means jobs; 22 percent of the workforce relies directly on agriculture. The same story can be told in the surrounding regional states of Iowa, Illinois and Minnesota. With a very high placement record, the baccalaureate degree program in agribusiness is a direct feed into the number one industry of the state and region – agriculture.

The purpose and obligation of the agribusiness program and faculty are to serve students, parents of students, employers and citizens by turning out students who excel in their preparedness and capacity to compete for desired careers in the agribusiness industry, and be successful at accomplishing both business and personal goals. This will be accomplished through the learning and application of business, economic and agricultural science theories, tools and processes, and through the development of the whole student via the university's general education requirements.

The agribusiness program's curriculum structure includes core courses required to be taken by all students. In addition, students must choose either a minor or one of the following agribusiness areas of emphasis:

- Commodity and price analysis
- Communications and marketing
- Management
- Agricultural engineering technology
- Comprehensive program of study
- International

Student Learning Outcomes
Students will gain knowledge, comprehend, apply, analyze, synthesize and/or evaluate, as appropriate, principles, tools and processes in the following overall areas:

1. Agribusiness management principles
2. Economic principles and concepts
3. Financial analysis and recordkeeping
4. Agricultural science
5. Mathematical and quantitative tools of agribusiness management and analysis
6. Commodity and identity-based marketing
7. Oral and written communication skills
8. Professional and personal development
9. Experiential - crash site - learning
10. Working understanding of the current status and trends in the local and global structure of the agriculture and food system

Specific student learning outcomes for each of the overall areas is available upon request from the director of the program.

Required Agribusiness Courses (35 credits):
ACCTING 2010 Financial Accounting 3 cr
ACCTING 2020 Managerial Accounting 3 cr
AGBUS 1000 Agribusiness Professional Development I 1 cr
AGBUS 2430 Agricultural Marketing 3 cr
AGBUS 3410 Agricultural Consulting and Sales 3 cr
AGBUS 3430 Quantitative Methods in Agribusiness 3 cr
AGBUS 3450 Agribusiness Professional Development II 1 cr
AGBUS 3460 Farm Business Management 3 cr
AGBUS 4500 Agribusiness Management 3 cr
AGBUS 4580 Agribusiness Internship 3 cr
MEDIA 3010 Business Communications 3 cr
MATH 1830 Elementary Statistics 3 cr
One ECONOMIC Course 3 cr

Minor (24 credits):
Select a 24-credit university minor to complete the degree

Agribusiness Comprehensive Major
Coursework includes completion of required core and an emphasis area.

Required Core SOA Courses (11 credits)

Required Agribusiness Courses (35 credits):
MATH 1830 Elementary Statistics 3 cr
One ECONOMIC Course 3 cr
ACCTING 2010 Financial Accounting 3 cr
ACCTING 2020 Management Accounting 3 cr
AGBUS 1000 Agribusiness Professional Development I 1 cr
AGBUS 2430 Agricultural Marketing 3 cr
MEDIA 3010 Business Communications 3 cr
AGBUS 3410 Agricultural Consulting and Sales 3 cr
AGBUS 3430 Quantitative Method in Agribusiness 3 cr
AGBUS 3450 Agribusiness Professional Development II 1 cr
AGBUS 3460 Farm Business Management 3 cr
AGBUS 4500 Agribusiness Management 3 cr
AGBUS 4580 Agribusiness Internship 3 cr
Commodity and Price Analysis Emphasis (29 credits)

Required Courses (17 credits):

AGBUS 3500 Agricultural Prices and Risk Management 3 cr
AGBUS 3530 Agricultural Commodity Marketing 3 cr
AGBUS 4330 Agribusiness Marketing Management 3 cr
AGBUS 4440 Livestock and Meat Marketing 3 cr
AGBUS 4620 Agricultural Commodity Price Forecasting 3 cr

Select three credits from agricultural sciences, agricultural engineering technology or reclamation beyond the core courses.

Electives (12 credits):
Select electives in consultation with advisor.

Management Emphasis (30 credits)

Required Courses (18 credits):

AGBUS 3420 Agricultural Finance 3 cr
BUSADMIN 3530 Organizational Behavior 3 cr
AGBUS 4330 Agribusiness Marketing Management 3 cr
AGBUS 4460 Agricultural Policy 3 cr

Select three credits from agricultural sciences, agricultural engineering technology or reclamation beyond the core courses.

Select one of the following (3 credits):
AGBUS 2500 Producer and Consumer Cooperatives 3 cr
AGBUS 3520 Agricultural Law 3 cr
AGBUS 3500 Agricultural Prices and Risk Management 3 cr

Select three credits from agricultural sciences, agricultural engineering technology or reclamation beyond the core courses.

Electives (12 credits):
Select electives in consultation with advisor.

Communication and Marketing Emphasis (30 credits)

Required Courses (18 credits):

MEDIA 1360 Public Relations Principles 3 cr
BUSADMIN 3630 Advertising 3 cr
AGBUS 4330 Agribusiness Marketing Management 3 cr
MEDIA 4270 Volunteers, Fundraising and Grants 3 cr

One of the following classes:
MEDIA 3800 Meetings and Events 3 cr
MEDIA 4450 Crisis Plan and Comm 3 cr

Select three credits from agricultural sciences, agricultural engineering technology or reclamation beyond the core courses.

Electives (12 credits):
Select electives in consultation with advisor.

Agricultural Engineering Technology Emphasis (30 credits)

Required Courses (18 credits):

AGET 3830 Engines and Tractor Systems 3 cr
AGET 3850 Electrical Applications in Agriculture 3 cr
AGET 3950 Soil and Water Conservation Engineering 3 cr
AGET 4690 Machinery Engineering and Management 3 cr
AGET 4790 Materials Handling and Energy Seminar 3 cr
AGET 4890 Structures and Environmental Control 3 cr

Electives (12 credits):
Select electives in consultation with advisor.

International Emphasis

Required (12-21 credits):

AGBUS 2330 World Population, Food and Resources 3 cr
ENGLISH 3260 Language and Culture 3 cr

One of the following:
BUSADMIN 1300 Global Business 3 cr
BUSADMIN 3720 International Marketing 3 cr
BUSADMIN 4140 International Management 3 cr

One of the following for International Experience (3-12 credits)*:

Study abroad experience OR
One-on-one exchange experience OR
Faculty-led international experience

*Any international experience that is to be counted as credit(s) toward this emphasis must be agreed upon by the student and academic advisor prior to the experience. Of these 3-12 credits, at least three credits must have been agriculturally related or adequately related to the student’s major.

Electives (3-12 credits):
Foreign language course beyond second semester or any university course approved for international education credit not being used to meet the university international three credit requirement.

Comprehensive Emphasis (33 credits)
A specialized 24-credit program of study (plus nine elective credits) designed in consultation with and approval of the advisor.

Agricultural Education

Contact: Rick Bockop
Program Office: 206 Pioneer Tower
Phone: 608.342.1890
E-mail: bockhopr@uwplatt.edu

Mission Statement
The mission of the agricultural education program at UW-Platteville is to prepare students to become licensed to teach agricultural education primarily at the middle and secondary levels in Wisconsin public schools. The agricultural education and technology education emphasis prepares students to teach agricultural education, technology education or both at the middle
and secondary levels in Wisconsin public schools. In addition, the purpose of the agribusiness option of agricultural education is to provide a broad-based background of agriculture that will enable the graduate to teach in industry, continue on to a master's degree, to work in the Cooperative Extension Service or work in other areas of agriculture.

**Agricultural Education – Comprehensive (Teaching) Option**

Students who major in agricultural education in the School of Agriculture, upon admission to teacher education, are jointly enrolled in the School of Education and must fulfill the requirements for teacher education specified by that school. The agricultural education curriculum meets the requirements of the Wisconsin Department of Public Instruction for the certification of agriculture/agribusiness instructors to teach all grades with a B-21 license. The program also meets the educational requirements for the provisional certificate issued by the Wisconsin State Board of Vocational, Technical and Adult Education for teachers of agriculture at the post-secondary level.

**Agricultural Education Major**

**Comprehensive Emphasis**

**Required Core SOA Courses (11 credits)**

**Required Agricultural Education Courses (5 credits):**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AGEDUC 2920</td>
<td>Introduction to Agriculture and Extension Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>AGEDUC 3900</td>
<td>Planning Cooperative Education in Agriculture</td>
<td>3 cr</td>
</tr>
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**Required Crops/Soils/Environmental Horticulture Courses (7 credits):**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SCSCI 2230</td>
<td>Soils</td>
<td>4 cr</td>
</tr>
<tr>
<td>Soils elective</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>Crops/Environmental Horticulture elective</td>
<td>3 cr</td>
<td></td>
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</table>

**Required Ag Business Courses (9 credits):**

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<th>Credits</th>
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<tbody>
<tr>
<td>AGBUS 2430</td>
<td>Agricultural Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGBUS 2500</td>
<td>Producer and Consumer Cooperatives</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGBUS 3460</td>
<td>Farm Business Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>or AGBUS 4500</td>
<td>Agribusiness Management</td>
<td>3 cr</td>
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</table>

**Required Animal Science Courses (11 credits):**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANSCI 2020</td>
<td>Introduction to Dairy Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>ANSCI 3000</td>
<td>Animal Nutrition</td>
<td>3 cr</td>
</tr>
<tr>
<td>ANSCI 3600</td>
<td>Feeds and Feeding</td>
<td>2 cr</td>
</tr>
<tr>
<td>Animal science elective</td>
<td>3 cr</td>
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</tbody>
</table>

**Required Engineering Technology Courses (9 credits):**

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<tr>
<th>Course</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>INDUSTDY 1430</td>
<td>Basic Metals Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGET 4890</td>
<td>Structures and Environmental Control</td>
<td>3 cr</td>
</tr>
<tr>
<td>Agribusiness Engineering Technology elective</td>
<td>3 cr</td>
<td></td>
</tr>
</tbody>
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**Required Education Courses (40 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 1000</td>
<td>Admission to School of Education</td>
<td>0 cr</td>
</tr>
<tr>
<td>TEACHING 1230</td>
<td>Introduction to Education</td>
<td>2 cr</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>72 cr</strong></td>
</tr>
</tbody>
</table>

**The comprehensive agricultural education major provides a balance of coursework from among the four technical subject matter areas in agriculture. The major in agricultural education may be complemented with a minor or an emphasis in ornamental horticulture or agribusiness management.**

Graduates who qualify for certification to teach agriculture at the junior/senior high school level must have at least 2,000 hours of occupational experience in agriculture. Students not having such experience may meet this requirement through summer employment or by enrolling in AGINDUS 4580 Agricultural Business Internship.

The occupational experience required of post-secondary teachers is 12 months for the provisional certificate.

**Requirements for Admission to Teacher Education**

To be eligible for admission, teacher candidates must meet the following minimum requirements:

1. Successfully complete the Pre-Professional Skills Test. Passing scores for the PPST are reading 175, writing 174 and mathematics 173. Teacher candidates should take the PPST during their first year at UW-Platteville.

2. Earn grades of "C" or better in the following courses: Freshman Composition (ENGLISH 1130 and ENGLISH 1230), Speech (SPEECH 2010 is strongly recommended, though SPEECH 1010 will satisfy the requirement), TEACHING 1230 Introduction to Education or PHYSED 2320 Introduction to Physical Education, and COMPUTER 2010 Computer Applications in Education (or approved equivalent)

3. Have earned 40 semester credits in an accredited college of which 15 credits have been earned at UW-Platteville

4. Have a cumulative grade point average of 2.65 or better
5. Prepare an admission portfolio, present it to an interview committee during Pre-Professional Days and be recommended for admission by committee

Requirements for Admission to Student Teaching
To be eligible for admission to student teaching, a candidate must:

1. Meet or exceed the minimum required grade point average of 2.75 overall and in major(s), teaching minor(s) and professional education courses
2. Have completed appropriate methods course(s) for the major and minor, as well as TEACHING 2130 and
   TEACHING 3320 or equivalent courses
3. Have grades of “C” or better in required methods courses and in all required professional education courses
4. Have documentation of an approved level II portfolio on file
5. Have passed the Praxis II contest test in agricultural education; no waivers allowed
6. Have been admitted to the SOE for one full semester prior to student teaching
7. Documentation of 2,000 hours of work experience in agriculture

Agricultural Education Major

Agricultural Education and Technology Education Emphasis

Required Core SOA Courses (16 credits):
- ANSCI 1000 Introduction to Animal Science 3 cr
- AGSCI 1240 The Plant-Soil Environment 3 cr
- SCSCI 2230 Soils 4 cr
- AGBUS 1500 Introduction to Agribusiness 3 cr
- INDUSTDY 1530 Power Systems 3 cr
- AGET 1750 Equipment, Structure and Power Systems 3 cr

Required Technology Education Courses (15 credits):
- INDUSTDY 1030 Introduction to Manufacturing 3 cr
- INDUSTDY 1130 Basic Wood Processes 3 cr
- INDUSTDY 1200 Basic Electricity 3 cr
- INDUSTDY 1230 Technical Drafting 3 cr
- INDUSTDY 1430 Basic Metals 3 cr

Electives (18 credits):
- Agriculture 6 cr
- Industrial Studies 6 cr
- Agriculture or Industrial Studies 6 cr

Required Education Courses (42 credits):
- TEACHING 1000 Acceptance into School of Education 0 cr
- TEACHING 1230 Introduction to Education 2 cr
- TEACHING 2130 Human Growth and Development 3 cr
- TEACHING 3110 Key Concepts of Middle Level Education 2 cr
- TEACHING 3120 Characteristics of Transcendents 2 cr
- TEACHING 3320 Psychology of Learning and the Exceptional Child 3 cr
- TEACHING 3630 Ethnic and Gender Equity in Education 3 cr
- TEACHING 4020 Educational Media Technology 2 cr
- TEACHING 4210 Pre-Student Teaching 1 cr
- TEACHING 4660 Student Teaching 12 cr
- TEACHING 4990 Licensure Portfolio 3 cr
- INDUSTDY 4820 Principles of Vo-Tech Education 2 cr
- AGEDUC 3900 Planning Cooperative Education in Agriculture 3 cr
- INDUSTDY 4640 Curriculum and Facilities Planning 3 cr

AGEDUC 4930 Teaching Cooperative Education in Agriculture 3 cr

or

INDUSTDY 3930 Teaching Technology Education 3 cr

Requirements for Admission to Teacher Education

To be eligible for admission, teacher candidates must meet the following minimum requirements:

1. Successfully complete the Pre-Professional Skills Test. Passing scores for the PPST are reading 175, writing 174 and mathematics 173. Teacher candidates should take the PPST during their first year at UW-Platteville
2. Earn grades of “C” or better in the following courses: Freshman Composition (ENGLISH 1130 and ENGLISH 1230), Speech (SPEECH 2010 is strongly recommended, though SPEECH 1010 will satisfy the requirement), TEACHING 1230 Introduction to Education or PHYS 2320 Introduction to Physical Education, and COMPUTER 2010 Computer Applications in Education
3. Attend and have written verification that the teacher candidate attended the STEPS presentation during TEACHING 1230 Introduction to Education
4. Be recommended for admission by two people (other than friends, relatives or UW-Platteville faculty) who can assess the candidate’s potential to be a teacher
5. Have earned 40 semester credits in an accredited college of which 15 credits have been earned at UW-Platteville
6. Have a cumulative grade point average of 2.65 or better
7. Prepare an admission portfolio, present it to an interview committee during Pre-Professional Days and be recommended for admission by committee

Requirements for Admission to Student Teaching

To be eligible for admission to student teaching a candidate must:

1. Meet or exceed the minimum required grade point average of 2.75 overall and in major(s), teaching minor(s) and professional education courses
2. Have completed appropriate methods course(s) for the major and minor, as well as TEACHING 2130 and TEACHING 3320 or equivalent courses
3. Have grades of “C” or better in required methods courses and in all required professional education courses
4. Have documentation of an approved level II portfolio on file
5. Have passed the Praxis II contest test in agricultural education; no waivers allowed
6. Have been admitted to the SOE for one full semester prior to student teaching
7. Documentation of 2,000 hours of work experience in agriculture

Agricultural Education

Agribusiness (Non-Teaching Emphasis)

The agribusiness emphasis of agricultural education is not intended to provide teacher certification for teaching in public schools. It is
rather an option to prepare graduates for (a) teaching or working in
the agricultural industry, (b) working in the Cooperative Extension Service, or (c) continuing to complete a Master of Science in Education. A master’s degree would be necessary to become employed in the Cooperative Extension Service. The M.S.E. would meet the requirements for obtaining a license to teach agriculture at the secondary level.

Requirements for this option are similar to those of the teaching option except that fewer education classes are taken and the student is not required to student teach. In addition, the students are not required to be admitted to the teacher education program. As such, they do not need to meet the G.P.A. or PPST requirements listed for the teaching option.

Required Core SOA Courses (11 credits)

Required Agricultural Education Courses (7 credits):
- **TEACHING** 1230 Introduction to Education 2 cr
- **AGEDUC** 2920 Introduction to Agriculture and Extension Education 2 cr
- **AGEDUC** 4930 Teaching Cooperative Education in Agriculture 3 cr

Required Crops/Soils/Environmental Horticulture Courses (14 credits):
- **SCSCI** 2230 Soils 4 cr
- **SCSCI** 3260 Seed and Grain Crops 3 cr
- **SCSCI** 3350 Soil Fertility and Fertilizers 3 cr
- **SCSCI** 3330 Soil Morphology and Classification 3 cr

Crops, soils or environmental horticulture electives 5 cr

Required Animal Science Courses (14 credits):
- **ANSCI** 3000 Animal Nutrition 3 cr
- **ANSCI** 3030 Genetics of Livestock Improvement 3 cr
- **ANSCI** 4110 Reproductive Physiology of Domestic Animals 4 cr
- Animal Science elective 3 cr

Required Agribusiness Courses (14 credits):
- **AGBUS** 2430 Agricultural Marketing 3 cr
- **AGBUS** 3460 Farm Business Management 3 cr
- **AGBUS** 4500 Agribusiness Management 3 cr
- Agribusiness electives 5 cr

Required Agribusiness Engineering Technology Courses (9 credits):
- **AGET** 3830 Engines and Tractor Systems 3 cr
- **AGET** 3950 Soil and Water Conservation 3 cr
- **AGET** 4890 Structures and Env. Control 3 cr
- Agribusiness Engineering Technology electives 5 cr

Agribusiness Option with Minor

Required Core SOA Courses (11 credits):

Required Agricultural Education Courses (7 credits):
- **TEACHING** 1230 Introduction to Education 2 cr
- **AGEDUC** 2920 Introduction to Agricultural and Extension Education 2 cr
- **AGEDUC** 4930 Teaching Cooperative Education in Agriculture 3 cr

Required Crops/Soils/Environmental Horticulture Courses (9 credits):
- **SCSCI** 2230 Soils 3 cr
- **SCSCI** 3260 Seed and Grain Crops 3 cr
- **SCSCI** 3350 Soil Fertility and Fertilizers 3 cr
- **SCSCI** 3330 Soil Morphology and Classification 3 cr

Crops, soils or environmental horticulture electives 3 cr

Required Animal Science Courses (11 credits):
- **ANSCI** 3000 Animal Nutrition 3 cr
- **ANSCI** 3030 Genetics of Livestock Improvement 3 cr
- **ANSCI** 4110 Reproductive Physiology of Domestic Animals 4 cr

Required Agribusiness Courses (9 credits):
- **AGBUS** 2430 Agricultural Marketing 3 cr
- **AGBUS** 3460 Farm Business Management 3 cr
- **AGBUS** 4500 Agribusiness Management 3 cr

Required Agribusiness Engineering Technology Courses (9 credits):
- **AGET** 3830 Engines and Tractor Systems 3 cr
- **AGET** 3950 Soil and Water Conservation 3 cr
- **AGET** 4890 Structures and Environmental Control 3 cr

Other: Agriculture courses must total 36 credits and a university minor of 24 credits must also be completed.

Animal Science

Contact: Tera Montgomery
Office: 215 Pioneer Tower
Phone: 608.342. 6027
E-mail: montgomeryt@uwplatt.edu

Mission Statement
The animal science major will prepare graduates who value and use critical thinking, communication and social skills through liberal arts and science-based technology education. They will contribute to the success and profitability of vocations involved in animal care, welfare and production of high quality animal derived food and medicine for national and international consumption. Graduates will also acquire skills that will guide them in designing and applying a synergy of animal production and land use with lasting environmental stability.

Goals
Graduates of the animal science program will be:
1. Conscious of and sensitive to the issues involved with profitable and ethical management, care, welfare and health of animals

Outcomes:
- Students support the scientific evidence for safety of world food supplied through science-based production practices
- Students can examine and evaluate various perspectives of animal health and welfare
- Students can analyze the structure of regional, national
Animal Science Major (36 credits)

**Required Core SOA Courses (11 credits)**

**Required Animal Science Courses (18 credits):**

- **ANSCI 2010** Anatomy and Physiology of Domestic Livestock 4 cr
- **ANSCI 2990** Pre-capstone Seminar in Animal Science 1 cr
- **ANSCI 3000** Animal Nutrition 3 cr
- **ANSCI 3030** Genetics of Livestock Improvement 3 cr
- **ANSCI 3110** Reproductive Physiology of Domestic Animals 4 cr
- **ANSCI 3600** Feeds and Feeding 2 cr
- **ANSCI 4990** Capstone Symposium in Animal Science 1 cr

**Two courses from (8 credits):**

- **ANSCI 4030** Beef Management 4 cr
- **ANSCI 4040** Swine Management 4 cr
- **ANSCI 4070** Dairy Cattle Management 4 cr
- **ANSCI 4170** Small Ruminant Animal Management 4 cr

**One course from (3 credits):**

- **ANSCI 3010** Dairy Product Analysis and Processing 3 cr
- **AGSCI 3040** Principles of Meat Science 3 cr

**Electives (9 credits):**

- **ANSCI 1200** Livestock Production Techniques 2 cr
- **ANSCI 2000** Meat Animal Evaluation 3 cr
- **ANSCI 2020** Introduction to Dairy Science 3 cr
- **ANSCI 2050** Dairy Cattle Evaluation 3 cr
- **ANSCI 2600** Companion Animal Care 3 cr
- **ANSCI 3070** Biotechnology in Animal Science 3 cr
- **ANSCI 3120** Topics in Animal Health 3 cr
- **ANSCI 3130** Animal and Food Microbiology 4 cr
- **ANSCI 4080** Ruminant Nutrition 3 cr
- **ANSCI 4090** Monogastric Nutrition 3 cr
- **ANSCI 4140** Meat Processing 3 cr
- **ANSCI 4150** Biology of Lactation 3 cr
- **ANSCI 4160** Advanced Nutrition Consulting 3 cr
- **AGSCI 4200** Individual Study in Animal Science 1-4 cr

Other courses as approved by advisor

**Animal Science Comprehensive Major (60 credits)**

**Required Core SOA Courses (11 credits)**

**Required Animal Science Courses (18 credits):**

- **ANSCI 2010** Anatomy and Physiology of Domestic Livestock 4 cr
- **ANSCI 2990** Pre-capstone Seminar in Animal Science 1 cr
- **ANSCI 3000** Animal Nutrition 3 cr
- **ANSCI 3030** Genetics of Livestock Improvement 3 cr
- **ANSCI 3110** Reproductive Physiology of Domestic Animals 4 cr
- **ANSCI 3600** Feeds and Feeding 2 cr
- **ANSCI 4990** Capstone Symposium in Animal Science 1 cr

**At least two courses from (8 credits):**

- **ANSCI 4030** Beef Management 4 cr
- **ANSCI 4040** Swine Management 4 cr
- **ANSCI 4070** Dairy Cattle Management 4 cr
- **ANSCI 4170** Small Ruminant Animal Management 4 cr

Livestock Production emphasis must take two of ANSCI 4030, ANSCI 4040, or ANSCI 4170. Dairy emphasis must take ANSCI 4070.

**At least one course from (3 credits):**

- **ANSCI 3010** Dairy Product Analysis and Processing 3 cr
- **ANSCI 3040** Principles of Meat Science 3 cr

Livestock Production emphasis must take ANSCI 3010. Dairy emphasis must take ANSCI 3040.

**Agribusiness Emphasis**

**Required Courses (15 credits):**

- **ACCTNG 2010** Financial Accounting 3 cr
- **AGBUS 2430** Agricultural Marketing 3 cr
- **AGBUS 3410** Agriculture Consulting/Sales 3 cr
- **AGBUS 3460** Farm Business Management 3 cr
- **AGBUS 3500** Agricultural Prices and Risk Management 3 cr

**Electives (15 credits):**

Other courses approved by advisor

and international policies that affect biosecurity

2. Critical thinkers with effective oral and written communication skills as individuals and as team members

Outcomes:

- Students value and enhance their communication skills with liberal arts and science-based knowledge
- Increase self-confidence and comfort level during public speaking
- Students demonstrate ability to independently investigate, analyze and conclude decisions clearly and concisely
- Collect and analyze information and compose professional, technical reports

3. Able to determine and measure profitable and environmentally sustainable agricultural practices

Outcomes:

- Competent in application of computerized technology
- Utilization of proven physical and chemical analyses
- Evaluate genetic selection and performance programs
- Appreciate and apply quality assurance programs for products
- Recognize and compare optimal and maximal production practices for sustainability

4. Informed and aware of regional, national and international obligations, opportunities and experiences

Outcomes:

- Generate interest and increased participation in cross-cultural experiences
- Expand student’s comfort zone for global pursuits
- Benefit from external professional inputs of diverse backgrounds
Dairy Emphasis

**Required Courses (13 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSCI 2020</td>
<td>Introduction to Dairy Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>ANSCI 2050</td>
<td>Dairy Cattle Evaluation</td>
<td>3 cr</td>
</tr>
<tr>
<td>ANSCI 3130</td>
<td>Animal and Food Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>ANSCI 4150</td>
<td>Biology of Lactation</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Electives (20 credits):**

Other courses approved by advisor

Livestock Production Emphasis

**Required Courses (15-16 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSCI 2000</td>
<td>Meat Animal Evaluation</td>
<td>3 cr</td>
</tr>
<tr>
<td>ANSCI 3130</td>
<td>Animal and Food Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>ANSCI</td>
<td>Third management course</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

One 2000+ course from two of following areas: SCSCI, AGET or AGBUS.

**Electives (17-18 credits):**

Other courses approved by advisor

Pre-vet Emphasis

**Required Courses (25 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMISTRY 1240</td>
<td>General Chemistry</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMISTRY 3540</td>
<td>Organic Chemistry</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMISTRY 4630</td>
<td>Biochemistry</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>or</td>
<td>ANSCI 3130 Animal and Food Microbiology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**Electives (8 credits):**

Other courses approved by advisor

Science Emphasis

**Required Courses (23-25 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 1750</td>
<td>Diversity of Life</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMISTRY 1240</td>
<td>General Chemistry</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMISTRY 3540</td>
<td>Organic Chemistry</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMISTRY 4630</td>
<td>Biochemistry</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>or</td>
<td>ANSCI 3130 Animal and Food Microbiology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**Electives (8-10 credits)**

Veterinary Technician Emphasis

Students who successfully complete the Veterinary Technician associate of applied science degree at Madison College, may transfer 36 credits (12 of which will be AGSCI 3000T and 24 of which will be AGSCI 1000T) of vet tech course work to UW-Platteville to complete the Vet Tech emphasis. The ONLY way a student may earn the vet tech emphasis is to successfully complete the Veterinary Technician associate of applied science degree at Madison College.

Environmental Horticulture

**Contact:** Michael E. Compton  
**Office:** 218 Pioneer Tower  
**Phone:** 608.342.1393  
**E-mail:** compton@uwplatt.edu

Environmental horticulture is the art and science of cultivating plants to improve human health, quality of life and the environment. It is a division of the broader field of horticulture involving the production and sales of greenhouse, florist and nursery plants as well as the design and management of landscapes, athletic fields, and interior spaces for public and private use.

**Mission Statement**

The environmental horticulture program will prepare graduates that value and use creative and critical thinking, are effective communicators and act as responsible, ethical and competent horticulturists. This will be achieved by combining a solid liberal arts education with professional curricular and educational opportunities aimed at combining the important theoretical and practical aspects of the horticultural and biological sciences with the managerial skills necessary for preparing students for a successful career in environmental horticulture.

**Learning Outcomes and Goals**

Students in the Environmental Horticulture program will:

1. Acquire, integrate, and apply knowledge of plant science to managed systems. Students will achieve this learning outcome through completion of the four educational goals below.
   - Use multiple sources, including current and historical literature, to find, evaluate, organize, and manage information related to horticultural systems
   - Apply scientific methods to test hypotheses
   - Demonstrate competence with both laboratory and field-based technologies used in modern horticulture
   - Apply concepts of plant biology, systematics, ecology, and genetics to manage and improve plants and their products

2. Demonstrate interdisciplinary knowledge and competency in managing horticultural systems. Students will achieve this outcome through completion of the five educational goals below.
   - Assess soils, soil health, fertility, water, and site limitations
   - Recommend and use appropriate application methods, materials, and diagnostic skills for addressing soil constraints and irrigation, nutrient, stress, and pest management issues
   - Assess potential and evaluate realized interactions with the abiotic and biotic environment in which plant are grown
   - Recommend appropriate, effective and integrated approaches to produce and maintain high-quality food and ornamental crops
   - Apply principles of accounting, business law, labor marketing and personnel management to a horticultural business and contribute to developing the various components of a business plan
3. Synthesize knowledge and use insight and creativity to better understand and improve plant systems. Students will accomplish this outcome by completing the following educational goals.

- Anticipate and recognize problems, identify causes of those problems, quantify potential impacts, analyze options, identify viable solutions to the problems, and evaluate actions and consequences of treatments and interventions
- Develop, identify, and employ best management practices that lead to sustainable solutions and outcomes
- Understand how global issues including climate change, energy use, water availability, and/or food safety impact the sustainability of horticultural systems locally, nationally, and globally

4. Appreciate and communicate the diverse impacts of horticulture on people. Students will accomplish this outcome by completing the following educational goals.

- Communicate effectively with various audiences using oral, written, and visual presentation skills, and contemporary networking technologies
- Describe the various ways plants impact human well-being (mental; psychological and restorative; physical; medicinal and physiological)
- Describe and assess the influence of plants and their management on environmental sustainability and restoration
- Quantify the economic importance of plants in managed ecosystems and the impact of horticultural crops in food systems
- Describe the social, spiritual, and cultural importance of plants to historical and contemporary communities of people

5. Demonstrate professionalism and proficiency in skills that relate to horticulture. Students will accomplish this learning outcome by achieving the following educational goals.

- Demonstrate leadership and the ability to collaborate and work in teams
- Demonstrate a high level of personal and social responsibility
- Develop a plan for life-long learning as it relates to career choice and professionalism
- Develop thoughtful, clear, and consistent perspectives on ethical and moral issues related to horticulture
- Demonstrate knowledge of a range of cultures, values, and political perspectives relevant for living and a global community
- Plan, engage, and learn from actions that demonstrate civic responsibility to community and society

Environmental horticulture is a 36-credit major. Students must also choose a 24-credit emphasis offered through the environmental horticulture major or 24-credit minor. Emphasis areas associated directly with the Environmental horticulture major include greenhouse and garden center management, plant breeding and genetics, international and professional landscape management.

Experiential learning is an important part of environmental horticulture course work. For this reason, students are required to complete a three-credit internship before graduation. Internships are available throughout the year at numerous locations across the United States. Students are also encouraged to participate in faculty-supervised research projects. Such projects may be in an area of environmental horticulture or plant biotechnology. Both internships and faculty-supervised research study projects provide students excellent practical experience while earning college credits.

Students that complete the program qualify for jobs in landscape horticulture, turf management, nursery and garden center operations, bedding plant production, greenhouse management, retail floral shops, seed production, or education and research. High school students should prepare for the environmental horticulture major by completing courses in math, science and plant science. Two or more years of Spanish is highly recommended. Summer jobs with a greenhouse, nursery or landscaping firm are beneficial.

**Environmental Horticulture Major (36 credits)**

**Required Courses (21 credits):**

<table>
<thead>
<tr>
<th>SCSCI</th>
<th>2230 Soils</th>
<th>4 cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVHORT</td>
<td>2280 Woody Landscape Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>3240 Herbaceous Plants</td>
<td>2 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>3360 Greenhouse Operation and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>4340 Plant Physiology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>4530 Plant Pathology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>1350 General Botany (required natural science)</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>1050/1140 Chemistry (required natural science)</td>
<td>4-5 cr</td>
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</tbody>
</table>

**Electives (15 credits):**

<table>
<thead>
<tr>
<th>BIOLOGY</th>
<th>3330 Genetics</th>
<th>3 cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY</td>
<td>3340 Entomology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>3550 Morphology of Vascular Plants</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>3650 Plant Communities of Wisconsin</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>3230 Turfgrass Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>3270 Landscape Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>3280 Landscape Construction</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>3300 Fruit and Vegetable Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>3370 Undergraduate Research in Environmental Horticulture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>3400 Special Topics in Environmental Horticulture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>4260 Interior Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>4270 Advanced Landscape Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>RECLAM</td>
<td>1010 Introduction to Reclamation</td>
<td>3 cr</td>
</tr>
<tr>
<td>RECLAM</td>
<td>3020 Reclamation Revegetation</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>3200 Pest Identification and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>3220 Plant Development and Biotechnology</td>
<td>4 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>3340 Nutrient Management</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Areas of Emphasis

Greenhouse and Garden Center Management Emphasis requirements for Environmental Horticulture Major (24 credits)

**Required Courses (3 credits):**

- **AGBUS** 1500 Introduction to Agribusiness 3 cr
- or
- **BUSADMIN** 1300 Global Business 3 cr

**Environmental Horticulture Electives (21–24 credits):**

- **SCSCI** 3200 Pest Identification and Management 3 cr
- **SCSCI** 3220 Plant Development and Biotechnology 4 cr
- **ENVHORT** 3230 Turfgrass Management 3 cr
- **ENVHORT** 3270 Landscape Design 3 cr
- **ENVHORT** 3280 Landscape Construction 3 cr
- **ENVHORT** 3300 Fruit and Vegetable Production 3 cr
- **ENVHORT** 3320 Landscape Management 3 cr
- **ENVHORT** 3370 Undergraduate Research in Environmental Horticulture 1-3 cr
- **ENVHORT** 3400 Special Topics in Environmental Horticulture 1-3 cr
- **SCSCI** 4250 Weed Science 4 cr
- **ENVHORT** 4270 Advanced Landscape Design 3 cr
- **BIOLOGY** 3330 Genetics 3 cr
- **BIOLOGY** 3340 Entomology 4 cr
- **BIOLOGY** 3550 Morphology and Evolution of Vascular Plants 4 cr
- **BIOLOGY** 3650 Plant Communities of Wisconsin 4 cr
- **RECLAM** 3020 Reclamation Revegetation 3 cr

**Business and Marketing Electives (12–15 credits):**

- **ACCTING** 2010 Financial Accounting 3 cr
- **AGBUS** 2430 Agricultural Marketing 3 cr
- **AGBUS** 3410 Agricultural Consulting and Sales 3 cr
- **AGBUS** 3420 Agricultural Finance 3 cr
- **AGBUS** 4330 Agribusiness Marketing Management 3 cr
- **BUSADMIN** 2330 Leadership and Management 3 cr
- **BUSADMIN** 2630 Introduction to Marketing 3 cr
- **BUSADMIN** 3030 Human Resource Management 3 cr
- **BUSADMIN** 3120 Retailing 3 cr
- **BUSADMIN** 3230 Small Business Management 3 cr
- **BUSADMIN** 3340 Management, Gender and Race 3 cr
- **BUSADMIN** 3630 Advertising 3 cr
- **BUSADMIN** 4200 Employee Recruitment and Selection 3 cr
- **COMPUTER** 1830 Microcomputer Applications 3 cr
- **MEDIA** 3010 Business Communications 3 cr

**Professional Landscape Management Emphasis Requirements for Environmental Horticulture Major (60 credits)**

**Required Courses (14 credits):**

- **ENVHORT** 2280 Woody Landscape Plants 3 cr
- **ENVHORT** 3230 Turfgrass Management 3 cr
- **ENVHORT** 3240 Herbaceous Plants 2 cr
- **ENVHORT** 3270 Landscape Design 3 cr
- **ENVHORT** 3280 Landscape Construction 3 cr

- **ENVHORT** 3320 Landscape Management 3 cr
- **SCSCI** 2230 Soils 4 cr
- **SCSCI** 3200 Pest Identification and Management 3 cr
- **SCSCI** 3350 Soil Fertility and Fertilizers 3 cr
- **SCSCI** 4250 Weed Science 3 cr
- **BIOLOGY** 4340 Plant Pathology 3 cr

**Professional Landscape Management Electives (15–21 credits):**

- **AGET** 1750 Equipment, Structures and Power Systems 3 cr
- **AGET** 3830 Engine and Tractor Systems 3 cr
- **AGET** 3850 Electrical Applications in Agriculture 3 cr
- **AGET** 3950 Soil and Water Conservation Engineering 3 cr
- **BIOLOGY** 3330 Genetics 3 cr
- **BIOLOGY** 3340 Entomology 4 cr
- **BIOLOGY** 3450 Ecology and Evolution 3 cr
- **BIOLOGY** 3550 Morphology of Vascular Plants 4 cr
- **BIOLOGY** 3650 Plant Communities of Wisconsin 4 cr
- **ENVHORT** 3300 Fruit and Vegetable Production 3 cr
- **ENVHORT** 3360 Greenhouse Operation and Management 3 cr
- **ENVHORT** 3370 Undergraduate Research in Environmental Horticulture 1-3 cr
- **ENVHORT** 4260 Interior Plants 3 cr
- **ENVHORT** 4270 Advanced Landscape Design 3 cr
- **GEOGRPHY** 2230 Geographical Information Systems 3 cr
- **INDUSTDY** 1130 Basic Woods Technology 3 cr
- **INDUSTDY** 1260 Building and Construction Drafting 3 cr
- **RECLAM** 3020 Reclamation Revegetation 3 cr
- **RECLAM** 3940 GIS/GPS and Mapping 3 cr
- **SCSCI** 3220 Plant Development and Biotechnology 4 cr

**Landscape Management Business Electives (3–9 credits):**

- **ACCTING** 2010 Financial Accounting 3 cr
- **AGBUS** 1500 Introduction to Agribusiness 3 cr
- **AGBUS** 2430 Agricultural Marketing 3 cr
- **AGBUS** 3410 Agricultural Consulting and Sales 3 cr
- **AGBUS** 3420 Agricultural Finance 3 cr
- **AGBUS** 4330 Agribusiness Marketing Management 3 cr
- **BUSADMIN** 1300 Global Business 3 cr
- **BUSADMIN** 2330 Leadership and Management 3 cr
- **BUSADMIN** 2630 Introduction to Marketing 3 cr
- **BUSADMIN** 3030 Human Resource Management 3 cr
- **BUSADMIN** 3230 Small Business Management 3 cr
- **BUSADMIN** 3340 Management, Gender and Race 3 cr
- **BUSADMIN** 3630 Advertising 3 cr
- **BUSADMIN** 4200 Employee Recruitment and Selection 3 cr
- **MEDIA** 3010 Business Communications 3 cr
- **COMPUTER** 1830 Microcomputer Applications 3 cr

**Plant Breeding and Genetics Emphasis Requirements for Environmental Horticulture Major (36 credits)**

**Required Courses (15 credits):**

- **ENVHORT** 3320 Landscape Management 3 cr
- **SCSCI** 2230 Soils 4 cr
- **SCSCI** 3200 Pest Identification and Management 3 cr
- **SCSCI** 3350 Soil Fertility and Fertilizers 3 cr
- **SCSCI** 4250 Weed Science 3 cr
- **BIOLOGY** 4340 Plant Pathology 3 cr

- **AGET** 1750 Equipment, Structures and Power Systems 3 cr
- **AGET** 3830 Engine and Tractor Systems 3 cr
- **AGET** 3850 Electrical Applications in Agriculture 3 cr
- **AGET** 3950 Soil and Water Conservation Engineering 3 cr
- **BIOLOGY** 3330 Genetics 3 cr
- **BIOLOGY** 3340 Entomology 4 cr
- **BIOLOGY** 3450 Ecology and Evolution 3 cr
- **BIOLOGY** 3550 Morphology of Vascular Plants 4 cr
- **BIOLOGY** 3650 Plant Communities of Wisconsin 4 cr
- **ENVHORT** 3300 Fruit and Vegetable Production 3 cr
- **ENVHORT** 3360 Greenhouse Operation and Management 3 cr
- **ENVHORT** 3370 Undergraduate Research in Environmental Horticulture 1-3 cr
- **ENVHORT** 4260 Interior Plants 3 cr
- **ENVHORT** 4270 Advanced Landscape Design 3 cr
- **GEOGRPHY** 2230 Geographical Information Systems 3 cr
- **INDUSTDY** 1130 Basic Woods Technology 3 cr
- **INDUSTDY** 1260 Building and Construction Drafting 3 cr
- **RECLAM** 3020 Reclamation Revegetation 3 cr
- **RECLAM** 3940 GIS/GPS and Mapping 3 cr
- **SCSCI** 3220 Plant Development and Biotechnology 4 cr

- **ACCTING** 2010 Financial Accounting 3 cr
- **AGBUS** 1500 Introduction to Agribusiness 3 cr
- **AGBUS** 2430 Agricultural Marketing 3 cr
- **AGBUS** 3410 Agricultural Consulting and Sales 3 cr
- **AGBUS** 3420 Agricultural Finance 3 cr
- **AGBUS** 4330 Agribusiness Marketing Management 3 cr
- **BUSADMIN** 1300 Global Business 3 cr
- **BUSADMIN** 2330 Leadership and Management 3 cr
- **BUSADMIN** 2630 Introduction to Marketing 3 cr
- **BUSADMIN** 3030 Human Resource Management 3 cr
- **BUSADMIN** 3230 Small Business Management 3 cr
- **BUSADMIN** 3340 Management, Gender and Race 3 cr
- **BUSADMIN** 3630 Advertising 3 cr
- **BUSADMIN** 4200 Employee Recruitment and Selection 3 cr
- **MEDIA** 3010 Business Communications 3 cr
- **COMPUTER** 1830 Microcomputer Applications 3 cr

80
Required International Emphasis Requirements for BU BUSADMIN Electives (3 credits) as an environmental horticulture major.

Breeding and Genetics Electives (15–21 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY</td>
<td>Cell Biology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>Entomology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>Morphology of Vascular Plants</td>
<td>1 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>Plant Communities of Wisconsin</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMTRY</td>
<td>General Organic Chemistry Lab</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMTRY</td>
<td>General Biochemistry Lab</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Landscape Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Landscape Construction</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Landscape Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Advanced Landscape Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Turfgrass Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Fruit and Vegetable Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Interior Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Undergraduate Research in Environmental Horticulture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Special Topics in Environmental Horticulture</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>Plant Identification and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>Nutrient Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>Soil Fertility and Fertilizers</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>Weed Science</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

** Counts as an elective if not used to fulfill requirements for environmental horticulture major

Environmental Horticulture Breeding and Genetics Business Electives (3-9 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGBUS</td>
<td>Introduction to Agribusiness</td>
<td>3 cr</td>
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<tr>
<td>AGBUS</td>
<td>Agricultural Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGBUS</td>
<td>Agribusiness Marketing Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>Leadership and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>Introduction to Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>Human Resource Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>Small Business Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>Employee Recruitment and Selection</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA</td>
<td>Business Communications</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>Microcomputer Applications</td>
<td>3 cr</td>
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</tbody>
</table>

International Emphasis Requirements for Environmental Horticulture Major (30 credits)

**Required Courses (14-23 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AGBUS</td>
<td>World Population, Food and Resources</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH</td>
<td>Intercultural Communication</td>
<td>3 cr</td>
</tr>
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</table>

One course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUSADMIN</td>
<td>Global Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>International Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>International Management</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

One International Experience Course (3-12 credits)*:

- Study abroad experience
- One-on-one exchange experience
- Faculty-led international experience

*Any international experience that is to be counted as credit(s) toward this emphasis must be agreed upon by the student and academic advisor prior to the experience. Of these 3-12 credits, at least three credits must have been agriculturally related or adequately related to the student’s major.

Environmental Horticulture Electives (4 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCSCI</td>
<td>Pest Identification and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>Nutrient Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>Soil Fertility and Fertilizers</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>Plant Breeding</td>
<td>4 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>Weed Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Landscape Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Fruit and Vegetable Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Interior Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENVHORT</td>
<td>Special Topics in Environmental Horticulture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>SCSCI</td>
<td>Weed Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>Genetics</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>Entomology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>Plant Communities of Wisconsin</td>
<td>4 cr</td>
</tr>
<tr>
<td>RECLAM</td>
<td>Introduction to Reclamation</td>
<td>3 cr</td>
</tr>
<tr>
<td>RECLAM</td>
<td>Reclamation Revegetation</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

International Electives (3-12 credits):

Students may select any international education course not already used to fulfill the general education international requirement and/or a foreign language course beyond the second semester.

Reclamation, Environment, and Conservation

**Contact:** Yari Johnson
**Program Office:** 316 Pioneer Tower
**Phone:** 608.342.7332
**E-mail:** johnsony@uwplatt.edu

Program Description

Reclamation, environment and conservation is an applied environmental science, which addresses the restoration and management of natural resources by the practical application of science, design and technology. Its basis lies in both ethics and sound management of the planet. REC is a natural adjunct to land use activities such as mining, timber management and grazing; construction, development and agriculture; and includes the preservation, conservation and restoration of our natural and cultural heritage.
Program Mission
The mission of the REC program is to promote environmental awareness and actions through interdisciplinary instruction and outreach. Its goal is to help protect, restore and conserve the environment for future generations.

Program Objectives and Student Learning Outcomes

Graduates of the REC program will:
- Describe land management and reclamation/restoration activities and outcomes and explain their importance to a wide range of audiences
- Characterize and apply interdisciplinary knowledge, skills and ethics necessary to restore and manage cultural and natural landscapes
- Apply sit analyses techniques to predict and assess difficulties and challenges unique to a given reclamation/restoration site
- Compare and evaluate the roles and responsibilities of stakeholders such as agencies, groups and organizations engaged in land management and reclamation/restoration
- Apply the skills to plan, design and construct a reclamation/restoration project
- Analyze and evaluate the reclamation/restoration results and the efficacy of methods and materials used in reclamation project management
- Demonstrate knowledge and perform administrative and technical tasks of reclamation project management

The interdisciplinary courses in the REC program are established and coordinated by the director and a council comprised of faculty across the university. Within the REC major, a student may elect to focus upon a physical, biological or chemistry emphasis. This division arises from the general division of emphases at the professional level. The physical emphasis is closely allied with geology and civil engineering, whereas the biological emphasis is closely allied with ecology, soils, agriculture and natural sciences. It is possible to obtain a double major in one of the closely related fields while completing requirements for the REC major. Students who elect a major in REC should have an aptitude for science, engineering, technology and design, and a strong commitment to the environment.

Reclamation, Environment and Conservation Major

**Required Courses (52-68 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CHEMSTRY</td>
<td>1240</td>
</tr>
<tr>
<td>(unnecessary if 1450 is taken)</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>3110</td>
</tr>
<tr>
<td>Environmental Chemistry Lab</td>
<td>1 cr</td>
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<tr>
<td>CHEMSTRY</td>
<td>3130</td>
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<tr>
<td>Environmental Chemistry</td>
<td>3 cr</td>
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<tr>
<td>COMPUTER</td>
<td>1830</td>
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<tr>
<td>Microcomputer Applications</td>
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<tr>
<td>SCSCI</td>
<td>2230</td>
</tr>
<tr>
<td>Soils</td>
<td>4 cr</td>
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<tr>
<td>BIOLOGY</td>
<td>3450</td>
</tr>
<tr>
<td>Ecology and Evolution</td>
<td>3 cr</td>
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<tr>
<td>BIOLOGY</td>
<td>2420</td>
</tr>
<tr>
<td>FBI: Fundamentals of Biological Investigations</td>
<td>2 cr</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3000</td>
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<tr>
<td>Technical Writing</td>
<td>3 cr</td>
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<tr>
<td>or</td>
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<tr>
<td>CIVILENG</td>
<td>2630</td>
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<tr>
<td>Elements of Surveying</td>
<td>3 cr</td>
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**CHEMSTRY**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>2150</td>
<td>Quantitative Analysis</td>
</tr>
<tr>
<td>3540</td>
<td>Organic Chemistry I Lecture</td>
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<tr>
<td>3510</td>
<td>Organic Chemistry I Lab</td>
</tr>
<tr>
<td>3630</td>
<td>Organic Chemistry II Lecture</td>
</tr>
<tr>
<td>3610</td>
<td>Organic Chemistry II Lab</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>RECLAM</td>
<td>1010</td>
</tr>
<tr>
<td>Introduction to Reclamation</td>
<td>3 cr</td>
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</tbody>
</table>
Biology Emphasis

Required Courses (15 credits):

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGSCI 1240</td>
<td>The Plant-Soil Environment</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI 3350</td>
<td>Soil Fertility and Fertilizers</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 1750</td>
<td>Diversity of Life</td>
<td>5 cr</td>
</tr>
<tr>
<td>BIOLOGY 3460</td>
<td>Ecological Methods of Research</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Soil and Crop Science

Contact: Chris Baxter
Program Office: 310 Pioneer Tower
Phone: 608.342.1388
E-mail: baxterch@uwplatt.edu

Mission and Purpose of the Soil and Crop Science Program

Students majoring in soil and crop science will be prepared for careers as resourceful, ethically responsible and competent agronomists by combining their liberal arts education with professional coursework and practical experience.

Program Objectives and Student Learning Outcomes

Students that complete the soil and crop science program are able to:

- Conceptualize, understand and apply chemical, physical, biological and agronomic sciences to address practical agronomic problems
- Apply scientific principles to gather, analyze and interpret agronomic data
- Effectively and accurately communicate agronomic information in written and oral forms
- Use and become familiar with new technologies in agronomy and related sciences
- Understand the professional, legal and ethical responsibilities associated with careers in agronomy

Soil and crop science is a 36-credit major. Students majoring in soil and crop science must complete a set of required courses along with either a 24-credit emphasis or a university minor. Emphasis areas associated directly with the soil and crop science major include plant breeding and genetics, comprehensive and international.

The soil and crop science program supports the UW-Platteville mission of providing baccalaureate degree programs that meet regional needs. Students completing this program will be prepared to pursue careers in agronomy or to continue their education through advanced study. Our graduates have enjoyed job placements near 100 percent in careers that support agriculture, the leading state and regional industry.

Soil and Crop Science Major

Required SOA Courses (11 credits)

Required Courses (27 credits):

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SCSCI 2230</td>
<td>Soils</td>
<td>4 cr</td>
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<td>SCSCI 3200</td>
<td>Pest Identification and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI 3220</td>
<td>Plant Development and Biotechnology</td>
<td>4 cr</td>
</tr>
<tr>
<td>SCSCI 3310</td>
<td>Soils, Crops and Environmental</td>
<td>1 cr</td>
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<tr>
<td>BIOLOGY 3660</td>
<td>Animal Communities of Wisconsin</td>
<td>3 cr</td>
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<td>BIOLOGY 3650</td>
<td>Plant Communities of Wisconsin</td>
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<td>BIOLOGY 4530</td>
<td>Plant Pathology</td>
<td>3 cr</td>
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<td>BIOLOGY 3750</td>
<td>Freshwater Biology</td>
<td>3 cr</td>
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<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
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<tr>
<td>BIOLOGY 3340</td>
<td>Entomology</td>
<td>4 cr</td>
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<tr>
<td>SCSCI 3340</td>
<td>Nutrient Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI 3350</td>
<td>Soil Fertility and Fertilizers</td>
<td>3 cr</td>
</tr>
<tr>
<td>SCSCI 4340</td>
<td>Soil and Water Conversion</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACSCI 4350</td>
<td>Soil and Crop Science Internship</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3340</td>
<td>Entomology</td>
<td>4 cr</td>
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<tr>
<td>SCSCI 1350</td>
<td>General Botany</td>
<td>5 cr</td>
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</tbody>
</table>

Horticulture Seminar
CHEM 1050/1140 Chemistry 4-5 cr

Electives (9 credits):
ENHVORT 3230 Turfgrass Management 3 cr
ENHVORT 3300 Fruit and Vegetable Production 3 cr
SCSCI 3260 Seed and Grain Crops 3 cr
SCSCI 3330 Soil Morphology and Classification 3 cr
SCSCI 3380 Special Problems in Soil Science 1-3 cr
SCSCI 3390 Special Problems in Crop Science 1-3 cr
SCSCI 4240 Plant Breeding 4 cr
SCSCI 4250 Weed Science 3 cr
SCSCI 4320 Forage Crops 3 cr
SCSCI 4360 Crop Pesticides and Growth Regulators 3 cr
SCSCI 4370 Soil Physics 3 cr
SCSCI 4390 Soil Analysis 3 cr
AGET 3950 Soil and Water Conservation Engineering 3 cr
RECLAM 3020 Reclamation Revegetation 3 cr

A 24-credit emphasis or minor must be selected.

Plant Breeding and Genetics Emphasis

Required Courses (13 credits):
SCSCI 4240 Plant Breeding 4 cr
BIOLOGY 3330 Genetics 3 cr
BIOLOGY 3530 Biotechnology 3 cr
CHEMSTRY 1240 General Chemistry 4 cr

Soil and Crop Science Electives (9 credits):
ENHVORT 3230 Turfgrass Management 3 cr
ENHVORT 3300 Fruit and Vegetable Production 3 cr
SCSCI 3260 Seed and Grain Crops 3 cr
SCSCI 3330 Soil Morphology and Classification 3 cr
SCSCI 3390 Special Problems in Crop Science 1-3 cr
SCSCI 4250 Weed Science 3 cr
SCSCI 4320 Forage Crops 3 cr
SCSCI 4360 Crop Pesticides and Growth Regulators 3 cr
SCSCI 4390 Soil Analysis 3 cr

Plant Breeding and Genetics Emphasis Electives
(11 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY</td>
<td>2040 Cell Biology</td>
<td>4 cr</td>
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<tr>
<td>BIOLOGY</td>
<td>3240 Microbiology</td>
<td>4 cr</td>
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<tr>
<td>BIOLOGY</td>
<td>3340 Entomology</td>
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<tr>
<td>BIOLOGY</td>
<td>4040 Molecular Biology</td>
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<td>BIOLOGY</td>
<td>4530 Plant Pathology</td>
<td>3 cr</td>
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<tr>
<td>CHEMSTRY</td>
<td>3540 General Organic Chemistry</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>3510 General Organic Chemistry Lab</td>
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<tr>
<td>CHEMSTRY</td>
<td>4630 General Biochemistry</td>
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<tr>
<td>CHEMSTRY</td>
<td>4610 General Biochemistry Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>RECLAM</td>
<td>3020 Reclamation Revegetation</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY</td>
<td>2540 Science, Technology and Ethics</td>
<td>3 cr</td>
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</tbody>
</table>
Comprehensive Soil and Crop Science Emphasis

**Required Courses (12 credits):**

- SCSCI 3260 Seed and Grain Crops 3 cr
- SCSCI 3330 Soil Morphology and Classification 3 cr
- SCSCI 4250 Weed Science 3 cr
- SCSCI 4320 Forage Crops 3 cr

**Biological or Physical Science Electives (7-9 credits):**

- BIOLOGY 3240 Microbiology 4 cr
- BIOLOGY 3330 Genetics 3 cr
- BIOLOGY 3340 Entomology 3 cr
- BIOLOGY 3450 Ecology and Evolution 3 cr
- BIOLOGY 4530 Plant Pathology 3 cr
- GEOLOGY 1140 Physical Geology 4 cr
- GEOGRAPHY 1240 Weather and Climate 4 cr
- GEOGRAPHY 3840 Soil Geomorphology 4 cr
- PHYSICS 1140/1110 Introduction to Physics 5 cr

**Comprehensive Electives (12-14 credits):**

Select any agriculture courses approved by advisor.

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**International Emphasis**

**Required Courses 44-53 credits:**

- AGBUS 2330 World Population, Food and Resources 3 cr
- SCSCI 4580 Soil and Crop Science Internship 3 cr
- SPEECH 2300 Intercultural Communication 3 cr

**One course from:**

- BUSADMIN 3100 Global Business 3 cr
- BUSADMIN 3720 International Marketing 3 cr
- BUSADMIN 4940 International Management 3 cr

**One International Experience Course (3-12 credits):**

- Study abroad experience
- One-on-one exchange experience
- Faculty-led international experience

*Any international experience that is to be counted as credit(s) toward this emphasis must be agreed upon by the student and academic advisor prior to the experience. Of these 3-12 credits, at least three credits must have been agriculturally related or adequately related to the student's major.

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**Soil and Crop Science Electives (9 credits):**

- ENVHORT 3230 Turfgrass Management 3 cr
- ENVHORT 3300 Fruit and Vegetable Production 3 cr
- SCSCI 3330 Soil Morphology and Classification 3 cr
- SCSCI 3380 Special Problems in Soil Science 1-3 cr
- SCSCI 3390 Special Problems in Crop Science 1-3 cr
- SCSCI 4240 Plant Breeding 4 cr
- SCSCI 4250 Weed Science 3 cr
- SCSCI 4320 Forage Crops 3 cr
- SCSCI 4360 Crop Pesticides and Growth Regulators 3 cr
- SCSCI 4370 Soil Physics 3 cr
- SCSCI 4390 Soil Analysis 3 cr
- AGET 3950 Soil and Water Conservation Engineering 3 cr
- RECLAM 3020 Reclamation Revegetation 3 cr

**International Electives (3-12 credits):**

Students may select any international education course not already used to fulfill the general education international requirement and/or a foreign language course beyond second semester.

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**Minors**

**Agribusiness Minor (24 credits)**

**Required if not taken as part of a major:**

- AGET 1750 Equip. Structures and Power Systems 3 cr
- INDUSTDY 1530 Power Systems Technology

**Required Courses (27 credits):**

- INDUSTDY 1200 AC/DC Fundamentals 3 cr
- AGET 3850 Electrical Applications in Agriculture 3 cr
- INDUSTDY 1230 Technical Drafting 3 cr
- INDUSTDY 1260 Building Construction Drafting 3 cr
- INDUSTDY 3460 3D Industrial Production Drafting 3 cr
- INDUSTDY 1430 Introduction to Metals Processes 3 cr
- INDUSTDY 3550 Fluid Power and Servo Systems 3 cr
- AGET 3830 Engines and Tractor Systems 3 cr
- AGET 3950 Soil and Water Conservation Engineering 3 cr
- AGET 4690 Machinervy Engineering and Management 3 cr
- AGET 4790 Materials Handling and 3 cr
- AGET 4890 Study Seminar

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**Animal Science Minor (24 credits)**

**Required Courses (8 credits):**

- ANSCI 3000 Animal Nutrition 4 cr
- ANSCI 3110 Reproductive Physiology of Domestic Animals 4 cr

**One course from (4 credits):**

- ANSCI 4030 Beef Management 4 cr
- ANSCI 4040 Swine Management 4 cr
- ANSCI 4070 Dairy Cattle Management 4 cr
- ANSCI 4170 Small Ruminant Animal Management 4 cr

**One course from (3 credits):**

- ANSCI 3010 Dairy Product Analysis and Processing 3 cr
- ANSCI 3040 Principles of Meat Science 3 cr

**Electives to complete the minor**
About the School and Majors
The UW-Platteville School of Business educates undergraduates and graduate students for productive careers in a diverse, global business environment. Students pursuing a Bachelor of Science in business administration or in accounting may begin learning about business-related subjects in their first year of college. Students are urged to participate in the school’s active student organizations which include: Beta Alpha, Pioneer Investment Club, APICS (Association for Operations Management), UW-Platteville’s Collegiate Entrepreneur Organization, and student chapters of Society for Human Resource Management and the American Marketing Association.

Mission Statement
The mission of the School of Business is to offer Bachelor of Science and Master of Science programs which advance the knowledge and practice of business functions in a global environment. The business administration major prepares students for a wide variety of careers in business. Emphasis areas in Finance, Human Resources, International Business, Integrated Supply Chain, Management, and Marketing are designed to give students an opportunity to develop skills and knowledge in their area of interest.

The accounting major is designed to prepare students for careers in public accounting, industry or governmental agencies. Students completing the requirements of the major are qualified to take the certified management accountant examination and, after completion of 150 hours of college credit, the certified public accountant examination. Because they will interact with people worldwide during their careers, business administration and accounting students are urged to increase their exposure to and awareness of various nations and cultures. The University provides many ways in which they can do this through acclaimed study abroad programs. In addition, the University has a domestic exchange program where a student can spend a semester studying at over 500 schools in the United States and Canada.

The School also offers a Bachelor of Science degree in business administration at a distance. This program allows students to balance work and personal commitments with their educational goals. The degree is delivered at a distance but is not differentiated from the on campus degree. Students may choose to take online or print courses and no campus attendance is required. Most courses are taught by experienced on-campus faculty who guide students’ work. Online courses are offered in the fall, spring and summer semesters, and they emphasize student interaction. Print courses feature self-paced study, and students may register for print courses any working day of the year.
In addition to the undergraduate majors, the School offers four Master's degree programs in Project Management, Organizational Change Leadership, Distance Education Leadership, and Integrated Supply Chain. More information about the School's distance education programs can be found at: www.uwplatt.edu/distance-education or by calling toll-free 1-800-362-5460.

General Requirements
Total for graduation.................................................. 120 credits
General education.................................................. 49-58 credits
Major studies.................................................. minimum 65 credits

Accounting Major
Professional Certifications
Upon graduation, accounting majors typically pursue professional certifications. In addition to the CPA and CMA certifications noted above, accountants also may become Certified Internal Auditors. All professional certifications require individuals to pass a national examination and complete several years of professional practice.

Most states require that individuals who wish to take the CPA examination must complete 150 hours of college credit.

UW-Platteville graduates majoring in accounting have several attractive options for meeting the 150-credit-hour requirement.

These include:
• Earning a business administration major with an emphasis in an area complementary to accounting, such as finance, or management before graduation.
• Completing a Master's of Science degree in one of four on-line Master's programs offered by the department after graduation on a part- or full-time basis.
• Working one-on-one with an accounting faculty member to devise a plan specifically tailored to a particular student's interests.

Required Core Courses (53-57 credits):

<table>
<thead>
<tr>
<th>ACCTING</th>
<th>2110 Financial Accounting</th>
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<tr>
<td>ACCTING</td>
<td>2320 Management Accounting</td>
<td>3 cr</td>
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<tr>
<td>ACCTING</td>
<td>4350 Internship</td>
<td>3 cr</td>
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<td>BUSADMIN</td>
<td>4990 Internship</td>
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<td>BUSADMIN</td>
<td>1300 Writing</td>
<td>3 cr</td>
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<tr>
<td>BUSADMIN</td>
<td>2100 Supply Chain Management</td>
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<tr>
<td>BUSADMIN</td>
<td>2330 Leadership and Management</td>
<td>3 cr</td>
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<tr>
<td>BUSADMIN</td>
<td>2340 Data Analysis &amp; Decision Making</td>
<td>3 cr</td>
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<tr>
<td>ECONOMIC</td>
<td>2410 Interpretation of Bus &amp; Econ. Data</td>
<td>3 cr</td>
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<tr>
<td>MATH</td>
<td>1830 Elementary Statistics</td>
<td>3 cr</td>
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<tr>
<td>BUSADMIN</td>
<td>2630 Introduction to Marketing</td>
<td>3 cr</td>
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<td>BUSADMIN</td>
<td>3030 Human Resource Management</td>
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<tr>
<td>BUSADMIN</td>
<td>3130 Legal Environment of Business</td>
<td>3 cr</td>
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<td>BUSADMIN</td>
<td>3140 Managerial Law</td>
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<td>BUSADMIN</td>
<td>3620 Corporate Finance</td>
<td>3 cr</td>
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<td>BUSADMIN</td>
<td>4840 Business Policy and Strategy</td>
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<td>Excel Competency</td>
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<td>ECONOMIC</td>
<td>1830 Microcomputer Applications</td>
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</tr>
<tr>
<td>ECONOMIC</td>
<td>2130 Principles of Macroeconomics</td>
<td>3 cr</td>
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</tbody>
</table>

ACCTING 2010 Financial Accounting 3 cr
ACCTING 2020 Management Accounting 3 cr
BUSADMIN 1300 Business (meets international requirement in general education)
BUSADMIN 2100 Supply Chain Management 3 cr
BUSADMIN 2330 Leadership and Management 3 cr
BUSADMIN 2340 Data Analysis and Decision Making 3 cr
ECONOMIC 2410 Interpretation of Business and Economic Data 3 cr
MATH 1830 Elementary Statistics 3 cr
BUSADMIN 2630 Introduction to Marketing 3 cr
BUSADMIN 3030 Human Resource Management 3 cr
BUSADMIN 3130 Legal Environment of Business 3 cr
BUSADMIN 3620 Corporate Finance 3 cr
BUSADMIN 4840 Business Policy/Strategy 3 cr
BUSADMIN 4990 Internship 3 cr
ACCTING 4990 Internship 3 cr
ECONOMIC 2130 Principles of Macroeconomics 3 cr
ECONOMIC 2230 Principles of Microeconomics (meets social science credits

Required Accounting Courses (24 credits):

ACCTING 3010 Intermediate Accounting I 3 cr
ACCTING 3020 Intermediate Accounting II 3 cr
ACCTING 3030 Accounting Information Systems 3 cr
ACCTING 3040 Federal Income Tax 3 cr
ACCTING 3050 Advanced Accounting 3 cr
ACCTING 3230 Cost Accounting 3 cr
ACCTING 4040 Advanced Taxation 3 cr
ACCTING 4230 Auditing 3 cr

Electives: (6 credits):

ACCTING 3270 Financial Statement Analysis 3 cr
ACCTING 3530 Budgets and Budgetary Control 3 cr
ACCTING 4130 Advanced Cost Accounting 3 cr
ACCTING 4520 Accounting Theory 3 cr

Note: ACCTING 4990 satisfies both the internship requirement and one of the two accounting electives. BSAD 4990 satisfies only the internship requirement for the accounting major.

Additional Requirements for the Accounting Degree:
1. Students must have G.P.A.s of 2.50 or better in courses required in the major.
2. Satisfactory completion of an approved accounting or business internship is required.
3. At least 21 credits must be taken under the direction of UW-Platteville faculty.

Business Administration Major
The major includes required courses in the core and completion of an emphasis area.

Required Core Courses (50-53 credits):

ACCTING 2010 Financial Accounting 3 cr
ACCTING 2020 Management Accounting 3 cr
BUSADMIN 1300 Business (meets international requirement in general education)
BUSADMIN 2100 Supply Chain Management 3 cr
BUSADMIN 2330 Leadership and Management 3 cr
BUSADMIN 2340 Data Analysis and Decision Making 3 cr
ECONOMIC 2410 Interpretation of Business and Economic Data 3 cr
MATH 1830 Elementary Statistics 3 cr
BUSADMIN 2630 Introduction to Marketing 3 cr
BUSADMIN 3030 Human Resource Management 3 cr
BUSADMIN 3130 Legal Environment of Business 3 cr
BUSADMIN 3620 Corporate Finance 3 cr
BUSADMIN 4840 Business Policy/Strategy 3 cr
BUSADMIN 4990 Internship 3 cr
ACCTING 4990 Internship 3 cr
ECONOMIC 2130 Principles of Macroeconomics 3 cr
ECONOMIC 2230 Principles of Microeconomics (meets social science credits
in general education)
BUSADMIN 3240 E-Commerce 3 cr
BUSADMIN 3720 International Marketing 3 cr
BUSADMIN 3740 Consumer Behavior 3 cr
BUSADMIN 4150 e-Marketing Applications 3 cr

(B) Professional Sales (9 credits)
BUSADMIN 3820 Professional Selling (required) 3 cr
BUSADMIN 3240 E-Commerce 3 cr
BUSADMIN 3720 International Marketing 3 cr
BUSADMIN 3740 Consumer Behavior 3 cr
BUSADMIN 3830 Sales Management 3 cr
BUSADMIN 3840 Advanced Selling 3 cr
SPEECH 3250 Interpersonal Communication 3 cr
SPEECH 3500 Persuasion and Argumentation 3 cr

International Business Emphasis (variable credits)

Required Courses:
BUSADMIN 3650 International Finance 3 cr
BUSADMIN 3720 International Marketing 3 cr
BUSADMIN 4140 International Management 3 cr
POLISCI 1330 International Relations 3 cr

and
9 credits in international experience acquired from short-term, summer, and semester experiences; at least 6 credits must be pre-approved business courses.
A maximum of 6 credits from another emphasis or minor may be applied to this emphasis.

Integrated Supply Chain Management Emphasis (16 credits)

Required Courses (7 credits)
BUSADMIN 1210 Introduction to ERP 1 cr
BUSADMIN 4120 Operations Management 3 cr
INDUSTDY 4950 Production Planning and Control 3 cr

Electives (9 credits):
ACCTING 3450 Strategic Cost Management 3 cr
BUSADMIN 3540 Quality Management 3 cr

or
INDUSTDY 4940 Quality Assurance 3 cr
BUSADMIN 4140 International Management 3 cr
BUSADMIN 4160 Purchasing Management 3 cr
INDUSTDY 4900 Work Measurement 3 cr

and
Human Factors

General Business Emphasis (15 credits)
Select 15 credits from any BUSADMIN prefix 3000- or 4000-level business administration courses from any emphasis area, in consultation with an advisor. The following courses may also be used for this emphasis:
BUSADMIN 3140 Managerial Law 3 cr
BUSADMIN 3150 Principles of Real Estate 3 cr
BUSADMIN 3230 Small Business Management 3 cr
BUSADMIN 3400 Personal Financial Planning 3 cr
BUSADMIN 3430 Risk Management 3 cr
BUSADMIN 3850 Principles of Project Management and Sustainability 3 cr
Additional Requirements for Business Administration Degree:
1. Students must have G.P.A.s of 2.50 in all courses required for the business administration major.
2. At least 21 credits must be taken under the direction of UW-Platteville faculty.

Minors

Accounting Minor (24 credits)
At least 12 credits must be taken at UW-Platteville.
Required Courses:
- ACCTING 2010 Financial Accounting 3 cr
- ACCTING 2020 Management Accounting 3 cr
- ACCTING 3010 Intermediate Accounting I 3 cr
- ACCTING 3040 Federal Income Tax 3 cr
- ACCTING 3230 Cost Accounting 3 cr
- ACCTING ### Accounting electives 9 cr

Food Marketing Minor (24 credits)
At least 12 credits must be taken at UW-Platteville.
Required Courses:
- BUSADMIN 2630 Introduction to Marketing 3 cr
- AGBUS 2430 Agricultural Marketing 3 cr
- ANSCI 2030 Introduction to Food Science 3 cr
- BUSADMIN 3740 Consumer Behavior 3 cr
- BUSADMIN 4990 Internship (in food-related area) 3 cr
- AGBUS 4580 Internship (in food-related area) 3 cr
Electives (12 credits):
- BUSADMIN 3120 Retailing 3 cr
- BUSADMIN 3530 Organizational Behavior 3 cr
- BUSADMIN 3540 Quality Management 3 cr
- BUSADMIN 3630 Advertising 3 cr
- BUSADMIN 3820 Professional Selling 3 cr
- AGBUS 3410 Agricultural Consulting and Sales 3 cr
- BUSADMIN 4630 Marketing Management 3 cr
- AGBUS 4330 Agribusiness Marketing Managements 3 cr
- AGBUS 2500 Producer and Consumer Cooperatives 3 cr
- ANSCI 3040 Principles of Meat Science 3 cr
- ANSCI 3010 Dairy Product Analysis and Processing 3 cr
- ENVHORT 3300 Fruit and Vegetable Production 3 cr
- MEDIA 3010 Business Communication 3 cr

Business Administration Minor (24 credits)
At least 12 credits must be taken at UW-Platteville.
Required Courses:
- ACCTING 2010 Financial Accounting 3 cr
- BUSADMIN 1300 Global Business 3 cr
- BUSADMIN 2330 Leadership and Management 3 cr
- BUSADMIN 2630 Introduction to Marketing 3 cr

Certificates
The department offers certificates for those who wish to gain specialized expertise in an area but who do not plan to seek a degree. Certificates are primarily intended for those completing business courses at a distance.

Requirements for all certificates are:
- Student must earn a grade of “C” or better in each course required in the certificate.
- All courses must be taken under the direction of UW-Platteville faculty. Transferred courses and course substitutions are not allowed.
- It shall be the student’s responsibility to request a certificate from the department within one year upon completion of the final course in the certificate.

Human Resource Management Certificate (9 credits)
- BUSADMIN 3030 Human Resource Management 3 cr
- BUSADMIN 3100 Compensation Management 3 cr
- BUSADMIN 4200 Employee Recruitment and Selection 3 cr

International Business Certificate (9 credits)
- BUSADMIN 1300 Global Business 3 cr
- BUSADMIN 3650 International Finance 3 cr
- BUSADMIN 3720 International Marketing 3 cr

Leadership and Human Performance Certificate (9 credits)
- BUSADMIN 2330 Leadership and Management 3 cr
- BUSADMIN 3530 Organizational Behavior 3 cr
- BUSADMIN 3540 Quality Management 3 cr

Marketing (9 credits)
- BUSADMIN 2630 Introduction to Marketing 3 cr
- BUSADMIN 4630 Marketing Management 3 cr
- RJSADMIN 3740 Consumer Behavior 3 cr
- RJSADMIN 3120 Retailing 3 cr
BUSADMIN    Electives    12 cr

Electives must have the BUSADMIN prefix. BUSADMIN 4990 Internship cannot be used as an elective.
Purpose Statement
The UW-Platteville Biology Program provides biology students a fundamental knowledge of biology along with introducing students to the major areas in biology, and providing opportunities to explore these areas. In this endeavor, the program provides students the ability to critically apply biological concepts to the understanding of natural phenomena and to deal with biology-related health, societal and conservation issues. In addition, the UW-Platteville Biology Program prepares students for: advanced study and research in the biological and related sciences, healthcare professional programs, veterinary professional programs, careers in education and biology-related industry and governmental service. The biology program also provides courses for general education in the natural sciences to introduce students to science, biology, biological concepts and how these affect society. Finally, the biology program provides courses to support other university programs such as agriculture, education, physical education, chemistry, criminal justice and engineering.

Student Learning Goals
1. Our world is filled with a dazzling array of life; these seemingly unique and different organisms have shared features due to their common origin. Our biology majors will demonstrate knowledge of the characteristics that unify all living organisms, the forces that shape their diversity, and the structures and functions inherent to different living

Pre-Podiatry
2. Because science is a process used to explore and understand the world around us, our biology majors will observe, question, hypothesize, test, analyze and develop conclusions about natural phenomena.

3. Life is complex; understanding this complexity requires interdisciplinary training. As they investigate the natural world, our biology majors will appropriately integrate knowledge and skills from chemistry, mathematics, and other liberal arts and sciences.

4. Although some contributions to science are achieved by individual effort alone, others are accomplished when people with diverse perspectives and skills work together. Our biology majors will engage in scientific inquiry both as individuals and as effective team members.

5. Without communication, science has no impact. Our biology majors will use a variety of oral and written means to convey information to a wide range of audiences.

6. The advancement of scientific knowledge happens within a societal context. Our biology majors will evaluate interactions between science and society and the ethical issues surrounding those interactions.
Cultivating Attitudes
The members of our department feel that correct attitudes, as with any endeavor, provide an important complement to a sound knowledgebase and skill-set. As a department, we hope to instill in our students a set of attitudes that we feel are important for all biologists. We will do our best to model the following: enthusiasm for the science of biology and an appreciation for the multitude of ways that biology permeates our society; a strong curiosity for the world about us; a respect for the instruments and objects of our research; integrity, because without integrity, there is no trust of the individual and, taken to its natural ends, no trust in the field of biology and the process of science.

Biology Requirements and Academic Standards
Eligibility for the Biology Comprehensive Major: Any student (new college student, external or internal transfer student) may declare a Biology Major (Non-emphasis) upon entering the program. Students may select an emphasis and pursue a Biology Comprehensive Major only after earning a C- or better in the following foundational courses (or their equivalents): BIOLOGY 1020, BIOLOGY 1650, and BIOLOGY 1750. Students who have specific biology interests, plan on a particular biology career, or those who plan to enter a graduate or professional school generally pursue the Biology Comprehensive Major with an area emphasis, thereby focusing their educational experiences. Students who seek a wider range of biology experiences than defined by an emphasis area may elect to not choose an emphasis area, and instead create their own set of electives that better align with their current or future interests.

Eligibility for select Pre-Professional Programs: Enrollment in the pre-Nursing option is open to any entering student (or internal transfer student). To declare any other option, a student must be eligible for pursuing the Biology Comprehensive Major and must have a minimum overall GPA of 3.0. If a student’s overall GPA drops below a 3.0, he or she will automatically be removed from the Pre-Professional Program; if this occurs, a student may appeal one time to the department for reenrollment in the Pre-Professional Program.

Program Grade Requirements: A grade of C- or higher is required in all biology courses counted toward a major in biology. Also, a grade of C- or higher is required in ENGLISH 1130, ENGLISH 1230, CHEMSTRY 1140, CHEMSTRY 1240 and MATH 1830.

Prerequisite Courses: In order to maintain enrollment in any biology course with identified prerequisite requirements, a student must successfully complete the required prerequisite(s). Students that register for a biology course that includes prerequisite requirements will be automatically un-enrolled in the course if they do not successfully complete the prerequisites.

Biology Requirements (32 credits)
ALL biology majors must complete core courses in the following three areas (32 credits):

Required Biology Core Courses (20 credits):
BIOLOGY 1020 BioQuest: Foundations for College Success 1 cr

BIOLOGY 1650 Unity of Life 5 cr
BIOLOGY 1750 Diversity of Life 5 cr
BIOLOGY 2420 FBI: Fundamentals of Biological Investigations 3 cr
BIOLOGY 3330 Genetics 3 cr
BIOLOGY 3450 Ecology and Evolution 3 cr

Required Biology Capstone Experience – choose one of the following (1 credit):
BIOLOGY 4970 Senior Thesis 1 cr
or
BIOLOGY 4990 From Atoms to Ecosystems-The Study of Life 1 cr

Required Supporting Courses (11 credits):
CHEMSTRY 1140 General Chemistry I 4 cr
CHEMSTRY 1240 General Chemistry II 4 cr
MATH 1830 Elementary Statistics 3 cr

Students who expect to enter graduate or professional school should consider taking the following courses, beyond the requirements for the major that meet the needs of their respective interest areas:

MATH 2640 Calculus and Analytic Geometry I 4 cr
CHEMSTRY 3540/3610 Organic Chemistry I and Lab 5 cr
CHEMSTRY 3630/3610 Organic Chemistry II and Lab 4 cr
CHEMSTRY 4630/4610 General Biochemistry and Lab 5 cr
PHYSICS 1050 Principles of Physics 5 cr
PHYSICS 1350 Introductory Physics I 5 cr
PHYSICS 1450 Introductory Physics II 5 cr
PSYCHLGY 1130 General Psychology 3 cr
SOCIOLOGY 1130 Principles of Sociology 3 cr
PHLSPHY (courses in philosophy)

Biology Major (Non-emphasis) (46 credits)
Biology majors must complete the biology requirements for 32 credits, plus two courses from (7-8 credits):
BIOLOGY 2040 Cell Biology 4 cr
BIOLOGY 3240 Microbiology 4 cr
BIOLOGY 3460 Ecological Methods and Research 3 cr

Electives to complete the major (7-8 credits):
Students may select any biology course above the 2000 level (except BIOLOGY 4010 Workshop in Biology or 4660 Biology Internship Experience).

Biology Comprehensive Major (minimum 60 credits including non-biology requirements)
Students with the biology comprehensive major will take the core requirements (32 credits) and one of the following emphases related to the student’s field of interest:

Biohealth/Physiology Emphasis (33 credits)
Biohealth Emphasis Core Courses (12-16 credits):
BIOLOGY 2040 Cell Biology 4 cr
BIOLOGY 3240 Microbiology 4 cr
BIOLOGY 2140 Human Anatomy and Physiology I 4 cr
BIOLOGY 2240 Human Anatomy and Physiology II 4 cr
BIOLOGY 3240 Essentials of Anatomy and Physiology 4 cr
**Advanced Biohealth Electives (5-12 credits):**
If the BIOLOGY 2140, 2240 sequence is chosen above, then students will select two of the advanced biohealth elective courses. If BIOLOGY 2340 is chosen above, then students will select three of the advanced biohealth elective courses.

**Recommended Minors:** Biotechnology, Chemistry, Mathematics, Psychology

**Botany Emphasis (29 credits)**

**Additional Requirement: One of the following (4 credits):**

- BIOLOGY 2040 Cell Biology 4 cr
- or
- BIOLOGY 3240 Microbiology 4 cr

**At least four advanced plant-based courses (minimum of 14 credits) to be selected from:**

- BIOLOGY 2130 Plants and Society 3 cr
- BIOLOGY 2450 Fungi, Algae and Bryophytes 4 cr
- BIOLOGY 3550 Morphology and Evolution of Vascular Plants 4 cr
- BIOLOGY 3650 Plant Communities of Wisconsin 4 cr
- BIOLOGY 4150 Forensic Botany 4 cr
- BIOLOGY 4530 Plant Pathology 3 cr
- BIOLOGY 4920 Independent Research in Biology (with approval) 1-3 cr

**Additional Required Supporting Courses (9 credits):**

- CHEMISTRY 3540/3510 Organic Chemistry I 5 cr
- CHEMISTRY 4630/4610 Biochemistry 4 cr

**Electives to complete the emphasis (3-4 credits):**

Students may select any biology course above the 2000 level (except BIOLOGY 4010 Workshop in Biology).

**Broad-Based Biology Course(s) (minimum of 3 credits) to be selected from:**

- BIOLOGY 2040 Cell Biology 4 cr
- BIOLOGY 3240 Microbiology 4 cr
- or
- BIOLOGY 3530 Biotechnology 2 cr

**Supporting Courses (minimum of 8 credits) to be selected from:**

- CHEMISTRY 3540/3510 Organic Chemistry I and Lab 5 cr
- CHEMISTRY 4630/4610 General Biochemistry and Lab 4 cr
- ENERGY 2130 Energy, Environment and Society 3 cr
- ENVHORT 2280 Woody Landscape Plants 3 cr
- ENVHORT 3240 Herbaceous Plants 2 cr
- GEOGRPHY 1040 Planet Earth 4 cr
- GEOGRPHY 1140 Global Landforms 4 cr
- GEOGRPHY 1240 Physical Geography: Weather and Climate 4 cr
- GEOGRPHY 3230 Introduction to GIS 4 cr
- GEOGRPHY 3330 Environmental Conservation 3 cr
- GEOGRPHY 3340 Biogeography 4 cr
- GEOGRPHY 4150 Climate Change 3 cr
- GEOLOGY 1140 Physical Geology 4 cr
- GEOLOGY 1240 Historical Geology 4 cr
- GEOLOGY 2330 History of Life 3 cr
- SCSCI 2230 Soils 3 cr
- SCSCI 4250 Weed Science 3 cr
- SCSCI 4350 Soil and Water Conservation 3 cr

**Recommended Minors:** Biotechnology, Chemistry, Environmental Science, Geology, Environmental Horticulture, Renewable Energy.

**Cytotechnology Emphasis**

A minimum of 82 semester credits must be completed at UW-Platteville, including all general education competencies and liberal arts areas as well as all biology requirements listed below; if accepted into an approved cytotechnology program, students will earn their final 38 credits of advanced biology from that professional cytotechnology school. At the end of the fourth year of study, students will earn a bachelor’s from UW-Platteville as well as a certificate in cytotechnology from the professional cytotechnology school. If a student is not accepted into an approved program, then he/she is encouraged to complete the final year at UW-Platteville to earn a bachelor’s in biology; to graduate, the student must fulfill the minimum requirements for the university and the biology program (either a non-emphasis biology degree, or another emphasis within the comprehensive major).

**Core Requirements:**

Students must complete at least 20 credits of undergraduate biology courses, including the required biology core courses, as well as the required supporting core courses (11 credits). Students in this emphasis DO NOT have to take the one-credit capstone experience.

**Recommended Cytotechnology Emphasis Core (16 credits):**

- BIOLOGY 2040 Cell Biology 4 cr
- BIOLOGY 3240 Microbiology 4 cr
- or
- BIOLOGY 2140 Human Anatomy and Physiology I 4 cr
<table>
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<tr>
<th>Course Code</th>
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<tr>
<td>BIOLOGY 3750</td>
<td>Freshwater Biology</td>
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<tr>
<td>BIOLOGY 4410</td>
<td>Topics in Biology (advisor approval required)</td>
<td>cr vary</td>
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<tr>
<td>BIOLOGY 2340</td>
<td>Essentials of Anatomy and Physiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4340</td>
<td>Mammalian Histology</td>
<td>4 cr</td>
</tr>
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</table>
Ecology Emphasis (59 credits)

**Additional Biology Courses (4 credits):**
- BIOLOGY 2040 Cell Biology 4 cr
- or
- BIOLOGY 3240 Microbiology 4 cr

**Advanced Ecology Courses (6 credits):**
- BIOLOGY 3460 Ecological Methods and Research 3 cr

BIOLOGY 3650 Plant Communities of Wisconsin 4 cr
- or
- BIOLOGY 3660 Animal Communities of Wisconsin 4 cr
- or
- BIOLOGY 3750 Freshwater Biology 3 cr

BIOLOGY 4710 Selected Regional Habitats 2-3 cr
- or
- GEOGRPHY 3340 Biogeography 4 cr

**Advanced Organismal, Identification or Research Courses (9 credits):**

- BIOLOGY 2450 Fungi, Algae and Bryophytes 4 cr
- BIOLOGY 2640 Invertebrate Zoology 4 cr
- BIOLOGY 3030 Ornithology 3 cr
- BIOLOGY 3040 Comparative Anatomy of Vertebrates 4 cr
- BIOLOGY 3230 Mammalogy 3 cr
- BIOLOGY 3240 Microbiology 4 cr
- BIOLOGY 3340 Entomology 4 cr
- BIOLOGY 3550 Morphology and Evolution of Vascular Plants 4 cr
- BIOLOGY 4150 Forensic Botany 4 cr
- BIOLOGY 4530 Plant Pathology 3 cr
- BIOLOGY 4410 Topics in Biology 1-3 cr
- BIOLOGY 4660 Cooperative Field Experience† 1-3 cr
- BIOLOGY 4920 Independent Research in Biology† 1-3 cr
- BIOLOGY 3### Ichthyology*
- BIOLOGY 3### Herpetology*

**NOTE:** Any of the courses above may also be taken at an accredited field station with departmental approval.

† No more than four credits of any combination of these courses can be applied to the required 12 credits.

* Course may not be offered at UW-Platteville.

**Non-Biology Supporting Courses (minimum 9 credits) to be selected from the following:**

- CHEMISTRY 3110 Environmental Chemistry Lab** 1 cr
- CHEMISTRY 3130 Environmental Chemistry** 3 cr
- CHEMISTRY 3510 Organic Chemistry Lab** 1 cr
- CHEMISTRY 3540 Organic Chemistry** 4 cr
- GEOGRPHY 3230 Introduction to GIS 4 cr
- GEOGRPHY 4330 Advanced GIS and GPS 4 cr
- or
- RECLAM 3010 Current Topics in Reclamation* 2 cr
- CIVILENG 4630 Geographic Information Systems* 3 cr
- or
- PHYSICS 1050 Principles of Physics** 5 cr
- or
- PHYSICS 1350 Introductory Physics I** 5 cr
- PHYSICS 1450 Introductory Physics II** 5 cr
- GEOLOGY 1140 Physical Geology 4 cr
- GEOLOGY 2330 History of Life 3 cr
- GEOLOGY 1140 Global Landforms 4 cr
- GEOGRPHY 1420 weather and climate

**Recommended Minors:**
Biotechnology, Chemistry, Environmental Science, Geology

**Molecular/Genetics Emphasis (33 credits)**

**Molecular/Genetics Core Courses (13 credits):**

- BIOLOGY 2040 Cell Biology 4 cr
- BIOLOGY 3240 Microbiology 4 cr
- BIOLOGY 4040 Molecular Biology 5 cr

**Advanced Molecular/Genetics Courses (8 credits):**

- BIOLOGY 2140 Human Anatomy and Physiology I 4 cr
- BIOLOGY 2240 Human Anatomy and Physiology II 4 cr
- BIOLOGY 2340 Essentials in Anatomy and Physiology 4 cr
- BIOLOGY 3040 Comparative Anatomy of Vertebrates 4 cr
- BIOLOGY 3120 Animal Tissue Culture 2 cr
- BIOLOGY 3140 Vertebrate Embryology 2 cr
- BIOLOGY 3530 Biotechnology 3 cr
- BIOLOGY 3620 Immunology 2 cr
- BIOLOGY 4130 Mammalian Endocrinology 3 cr
- BIOLOGY 4150 Forensic Botany 4 cr
- BIOLOGY 4240 Advanced Physiology 4 cr
- BIOLOGY 4340 Mammalian Histology 4 cr
- BIOLOGY 4530 Plant Pathology 3 cr
- BIOLOGY 4520 Biotechnology Seminar 2 cr
- MSNT 4000 Research in Microsystems and Nanotechnology 3 cr
- SCSCI 3220 Plant Development and Biotechnology 4 cr
- SCSCI 4240 Plant Breeding 4 cr
- SCSCI 4340 Plant Physiology 3 cr

**Additional Required Supporting Courses (9 credits):**

- CHEMISTRY 3540/3510 Organic Chemistry I and Lab 5 cr
- CHEMISTRY 4630/4610 Biochemistry 4 cr

**Electives to complete the emphasis (3 credits):**
Students may select any biology course above the 2000 level (except BIOLOGY 4010).”

**Recommended Minors:**
Biotechnology, Chemistry, Criminal Justice

**Secondary Education Emphasis (20-24 credits)**

**Secondary Education Emphasis Core Courses (12-16 credits):**

- BIOLOGY 2040 Cell Biology 4 cr
- BIOLOGY 3240 Microbiology 4 cr
- BIOLOGY 2340 Essentials of Anatomy and Physiology (recommended)
- or
- BIOLOGY 2140/2240 Human Anatomy and Physiology I and II 8 cr

**One advanced plant course (minimum of 3 credits) from:**

- BIOLOGY 2130 Plants and Society 3 cr
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<th>Title</th>
<th>Credits</th>
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<td>Environmental Conservation</td>
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<td>RECLAM</td>
<td>3020</td>
<td>Reclamation Revegetation</td>
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<td>BIOLOGY</td>
<td>2450</td>
<td>Fungi, Algae and Bryophytes</td>
<td>4 cr</td>
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<td>BIOLOGY</td>
<td>3550</td>
<td>Morphology and Evolution of Vascular Plants</td>
<td>4 cr</td>
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</table>
100

BIOLOGY 3650 Plant Communities of Wisconsin 4 cr
ENHORT 2280 Woody Landscape Plants 3 cr
ENHORT 3240 Herbaceous Plants 2 cr
SCSCI 4340 Plant Physiology 4 cr

An approved course at a field station cr vary

One advanced animal course (minimum of 3 credits)
from:
BIOLOGY 2640 Invertebrate Zoology 4 cr
BIOLOGY 3030 Ornithology 3 cr
BIOLOGY 3040 Comparative Anatomy 4 cr
of the Vertebrates
BIOLOGY 3140 Vertebrate Embryology 4 cr
BIOLOGY 3340 Entomology 4 cr
BIOLOGY 3230 Mammalogy 3 cr
BIOLOGY 3660 Animal Communities of Wisconsin 3 cr
BIOLOGY 4130 Mammalian Endocrinology 3 cr
BIOLOGY 4240 Advanced Physiology 4 cr
BIOLOGY 4340 Mammalian Histology 4 cr
An approved course at a field station cr vary

One advanced broad-based biology course (minimum of 2 credits) from:
BIOLOGY 3460 Ecological Methods and Research 3 cr
BIOLOGY 3530 Biotechnology 3 cr
BIOLOGY 3750 Freshwater Biology 3 cr
BIOLOGY 4040 Molecular Biology 5 cr
BIOLOGY 4410 Topics in Biology (approval required) 1-3 cr
BIOLOGY 4710 Selected Regional Habitats 1-3 cr
BIOLOGY 4920 Independent Research in Biology 1-3 cr
(approval required)

Additional Licensable Program (required)
Biology-secondary education majors are required to earn an additional licensable degree. Although students are free to select any licensable major or minor offered at UW-Platteville, the biology department encourages students to pursue a science-related program to improve marketability. To this end, students may choose to minor in physics, chemistry or environmental science or double major in chemistry or broad field science.

Zoology Emphasis (33 credits)
Additional Requirements: One of the following (4 credits)
BIOLOGY 2040 Cell Biology 4 cr
or
BIOLOGY 3240 Microbiology 4 cr

Anatomy and Physiology Courses (8 credits):
BIOLOGY 2340 Essentials of Anatomy and Physiology 4 cr
and
BIOLOGY 3040 Comparative Anatomy of the Vertebrates 4 cr
or
BIOLOGY 2140 Human Anatomy and Physiology I 4 cr
and
BIOLOGY 2240 Human Anatomy and Physiology II 4 cr

Zoology Electives (minimum of 9 credits):
BIOLOGY 2640 Invertebrate Zoology 4 cr
BIOLOGY 3030 Ornithology 3 cr
BIOLOGY 3120 Animal Tissue Culture 2 cr
BIOLOGY 3140 Vertebrate Embryology 4 cr
BIOLOGY 3340 Entomology 4 cr
BIOLOGY 3620 Immunology 2 cr
BIOLOGY 3230 Mammalogy 3 cr
BIOLOGY 4130 Mammalian Endocrinology 4 cr
BIOLOGY 4340 Mammalian Histology 4 cr
BIOLOGY 4920 Independent Research in Biology 1-3 cr

* Not currently offered on campus – may be taken from an accredited field station or other accredited program

Additional Required Supporting Courses (minimum of 12 credits):
BIOLOGY 4410 Topics in Biology 1-3 cr
BIOLOGY 4660 Cooperative Field Experience 1-3 cr
BIOLOGY 4710 Selected Regional Habitats 1-3 cr
BIOLOGY 4920 Special Problems in Biology 1-3 cr

(No more than six credits of any combination of the above courses can be applied to the required 12 credits.)
ANSCI 1000 Introduction to Animal Science 3 cr
ANSCI 2600 Companion Animal Care and Management 3 cr
ANSCI 3000 Animal Nutrition 4 cr
ANSCI 3010 A and P of Domestic Animals 3 cr
ANSCI 3070 Biotechnology in Animal Science 3 cr
ANSCI 3120 Topics in Animal Health 3 cr
ANSCI 3110 Reproductive Physiology of Domestic Animals 4 cr
GEOGRPHY 1040 Planet Earth 4 cr
GEOGRPHY 1140 Global Landforms 4 cr
GEOGRPHY 3230 Introduction to GIS 4 cr
GEOGRPHY 4330 Advanced GIS and GPS 4 cr
GEOGRPHY 3340 Biogeography 4 cr

Recommended Minors:
Biotechnology, Chemistry and Environmental Science

Biology Minor (24 credits)
Required Courses (13 credits):
BIOLOGY 1650 Unity of Life 5 cr
BIOLOGY 1750 Diversity of Life 5 cr
BIOLOGY 3330 Genetics 3 cr
or
BIOLOGY 3450 Ecology and Evolution 3 cr

Electives to complete the minor (11 credits): Students may select any biology course above the 2000 level (except BIOLOGY 4010, 4410, 4460 or 4920).

Biology Teaching Minor (24 credits)
Required Courses (20 credits):
BIOLOGY 1650 Unity of Life 5 cr
BIOLOGY 1750 Diversity of Life 5 cr
BIOLOGY 2340 Essentials of Anatomy and Physiology (recommended) 4 cr
BIOLOGY 3330 Genetics 3 cr
BIOLOGY 3450 Ecology and Evolution 3 cr

Students may select any of the following biology courses above the 2000 level for a minimum of 4 credits (except BIOLOGY 4010, 4410, 4460 or 4920):
BIOLOGY 2040 Cell Biology 4 cr
BIOLOGY 2450 Fungi, Algae and Bryophytes 4 cr
BIOLOGY 2640 Invertebrate Zoology 4 cr
<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOLOGY</td>
<td>3030 Ornithology</td>
<td>3 cr</td>
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</table>
BIOLOGY 3040 Comparative Anatomy of the Vertebrates 4 cr
BIOLOGY 3230 Mammalogy 3 cr
BIOLOGY 3240 Microbiology 4 cr
BIOLOGY 3340 Entomology 4 cr
BIOLOGY 3460 Ecological Methods and Research 3 cr
BIOLOGY 3530 Biotechnology 3 cr
BIOLOGY 3550 Morphology and Evolution of Vascular Plants 4 cr
BIOLOGY 3650 Plant Communities of Wisconsin 4 cr
BIOLOGY 3660 Animal Communities of Wisconsin 4 cr
BIOLOGY 3750 Freshwater Biology 3 cr
BIOLOGY 4040 Molecular Biology 5 cr
BIOLOGY 4710 Selected Regional Habitats 1-3 cr
BIOLOGY 4990 From Atoms to Ecosystems – The Study of Life 1 cr

**Environmental Horticulture Minor (24 credits)**

**Required Courses (16 credits):**

- ENVHORT 1320 Environmental Horticulture 3 cr
- ENVHORT 2280 Woody Landscape Plants 3 cr
- ENVHORT 3240 Herbaceous Plants 2 cr
- ENVHORT 3320 Landscape Management 3 cr
- ENVHORT 3360 Greenhouse Operation and Management 3 cr

**SCSCI 2230 Soils 4 cr**

**Electives (8 credits):**

- SCSCI 3200 Pest Identification and Management 3 cr
- SCSCI 3220 Plant Development and Biotechnology 4 cr
- ENVHORT 3230 Turfgrass Management 3 cr
- ENVHORT 3270 Landscape Design 3 cr
- ENVHORT 3280 Landscape Construction 3 cr
- ENVHORT 3300 Fruit and Vegetable Production 3 cr
- ENVHORT 3320 Landscape Management* 3 cr
- ENVHORT 3360 Greenhouse Operation and Management* 3 cr
- ENVHORT 3370 Undergraduate Research in Environmental Horticulture 1-3 cr
- ENVHORT 3400 Special Topics in Environmental Horticulture 1-3 cr
- SCSCI 4250 Weed Science 3 cr
- ENVHORT 4260 Interior Plants 3 cr
- ENVHORT 4270 Advanced Landscape Design 3 cr
- SCSCI 4340 Plant Physiology 3 cr
- BIOLOGY 3340 Entomology 4 cr
- BIOLOGY 3650 Plant Communities of Wisconsin 4 cr
- BIOLOGY 4530 Plant Pathology 3 cr

* Cannot be used as an elective if used to fulfill a college or major requirement

**Soil and Crop Science Minor (24 credits)**

**Required Courses (14 credits):**

- SCSCI 2230 Soils 4 cr
- SCSCI 3200 Pest Identification and Management 3 cr
- SCSCI 3310 Soils, Crops and Environmental Horticulture Seminar 1 cr
- SCSCI 3340 Nutrient Management 3 cr
- SCSCI 3350 Soil Fertility and Fertilizers 3 cr

**Soil and Crop Science Electives (6-7 credits):**

- SCSCI 3220 Plant Development and Biotechnology 4 cr
- SCSCI 3260 Seed and Grain Crops 3 cr
- ENVHORT 3300 Fruit and Vegetable Production 3 cr
- SCSCI 3330 Soil Morphology and Classification 3 cr
- SCSCI 3380 Special Problems in Soil Science 1-3 cr
- SCSCI 3390 Special Problems in Crop Science 1-3 cr
- SCSCI 4240 Plant Breeding 4 cr
- ENVHORT 4250 Weed Science 3 cr

* *Credits do not count toward completion of the minor.

**Tissue Culture Course(s) (2-4 credits):**

- BIOLOGY 3120 Animal Tissue Culture 2 cr
- SCSCI 3220 Plant Development 4 cr

**Electives to Complete Minor (7-10 credits):**

- ANSCI 3070 Biotechnology in Animal Science 3 cr
- ANSCI 3110 Reproductive Physiology of Domestic Animals 4 cr
- ANSCI 4190 Seminar in Animal Science and Biotechnology 3 cr
- BIOLOGY 3240 Microbiology 4 cr
- BIOLOGY 3620 Immunology 2 cr
- BIOLOGY 4040 Molecular Biology 5 cr
- CHEMISTRY 4610 Biochemistry Lab 1 cr
- CHEMISTRY 4630 Biochemistry 3 cr
- CHEMISTRY 4830 Topics in Biochemistry 3 cr
- SCSCI 4240 Plant Breeding 4 cr

**Up to 3 credits from:**

- BIOLOGY 4410 Topics in Biology (applicable to biotechnology) 1-3 cr
- BIOLOGY 4920 Independent Research in Biology 1-3 cr
- ENVHORT 3370 Undergraduate Research in Environmental Horticulture 1-3 cr

**NOTE:** Elective courses have individual pre-requisites that may not be listed above.
Pre-Professional Programs

The following pre-professional programs are administered and advised through the UW-Platteville Biology Department:

Pre-Chiropractic
Jeff Huebschman
243 Gardner
608.342.1742

Pre-Cytotecnology
Esther Ofuue
240 Gardner
608.342.1331

Pre-Dentistry
Rich Dhyanchand
340 Gardner
608.342.6155

Pre-Medical Technology
Esther Ofuue
240 Gardner
608.342.1331

Pre-Medicine
Rich Dhyanchand
340 Gardner
608.342.6155

Pre-Nursing
Amanda Trewin
241 Gardner
608.342.1527

Pre-Podiatry
Amanda Trewin
241 Gardner
608.342.1527

Pre-Occupational Therapy
Marilyn Tuft
253 Gardner
608.342.1664

Pre-Optometry
Rich Dhyanchand
340 Gardner
608.342.6155

Pre-Osteopathy
Amanda Trewin
241 Gardner
608.342.1527

Pre-Physical Therapy
Marilyn Tuft
253 Gardner
608.342.1664

Pre-Physician Assistant
Rich Dhyanchand
340 Gardner
608.342.6155

Required Biology/Physical Sciences Course
(3-5 credits):

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<td>BIOLOGY 1350</td>
<td>Botany</td>
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<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
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<tr>
<td>BIOLOGY 3330</td>
<td>Principles of Genetics</td>
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<td>BIOLOGY 3340</td>
<td>Entomology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4530</td>
<td>Plant Pathology</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOLOGY 1140</td>
<td>Physical Geology</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRAPHY 1040</td>
<td>Planet Earth</td>
<td>4 cr</td>
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<tr>
<td>GEOGRAPHY 1140</td>
<td>Geomorphology</td>
<td>4 cr</td>
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<tr>
<td>GEOGRAPHY 1240</td>
<td>Weather and Climate</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRAPHY 3840</td>
<td>Soil Geomorphology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

DEPARTMENT OF MEDIA STUDIES

www.uwplatt.edu/mediastudies

Department Chair: Arthur L. Ranney
Office: 609 Pioneer Tower
Phone: 608.342.1619
E-mail: ranneya@uwplatt.edu

Professors:
Arthur Ranney
B.J. Reed
Rob Snyder
Mary Rose Williams

Associate Professor:
Steve Yunck

Majors
Media Studies
   Journalism Emphasis
   Photography and Web Development Emphasis
   Public Relations Emphasis

Assistant Professors:
Hao Chen

Academic Department Associate:
Becky Troy
Video and Audio Production Emphasis

Minor(s)
Journalism
Photography
Public Relations
Social Media

Video and Audio Production

Web Development
About the Department and Major
The UW-Platteville Department of Media Studies offers a comprehensive major (60 credits) or a major and minor combination (36 credits and 24 credits, respectively).

The programs are designed to promote a natural transition from the classroom to the world of work. This transition is enhanced by a unique balance of classroom instruction, laboratory courses and field experiences. Modern, well-maintained facilities and an excellent placement record make the programs especially attractive.

The major in media studies prepares individuals for a variety of careers such as Web editor, video and audio writer, media producer/director, media reporter, photographer, public relations specialist, media advertising account executive, technical editor, graphic designer, media buyer, videographer, on-air announcer, multimedia developer, customer service representative. Students majoring in media studies select one emphasis area: journalism, photography and web development, public relations or video and audio production. Opportunities for student involvement include Pioneer TV, WSUP Radio, the Exponent, the Public Relations Organization, Imaging Media Group and the National Broadcasting Society’s local student chapter.

General Requirements
Bachelor of Science Degree
Total for graduation........................................ 120 credits
General education............................................. 43-57 credits

Media Studies
Comprehensive major........................................ 60 credits
or
Major with required minor.............................. 36 and 24 credits

Bachelor of Arts Degree
Total for graduation........................................ 120 credits
General education............................................. 43-57 credits
(Including nine credits upper division courses in humanities, fine arts or social sciences)

Media Studies
Comprehensive major........................................ 60 credits
or
Major with required minor.............................. 36 and 24 credits

Program Purpose
The UW-Platteville Media Studies program serves students by offering a comprehensive major (60 credits), or a major/minor combination (36/24 credits) through a unique balance among classroom instruction, laboratory activities and field experiences.

Program Goals
1. Prepare undergraduate students for professional careers in one or more program emphases (photography and web development, journalism, public relations, or video and audio production).
2. Provide coursework for programs in business and accounting, agribusiness, fine arts, education and other programs.
3. Provide elective coursework to satisfy the social science requirements in the general education program.

Program Outcomes
As a result of graduating with a Bachelor of Arts or Bachelor of Science degree in media studies, our students will be able to:
1. demonstrate proficiency in both written and oral communication
2. demonstrate knowledge of the role of mass media in our society
3. demonstrate knowledge about the concepts, terminology and issues associated with technologies used in the media
4. demonstrate knowledge of legal concepts, terminology and issues in media activities
5. utilize appropriate technologies and computer software associated with at least one of four emphases in this program
6. apply classroom knowledge in the workplace
7. demonstrate knowledge of ethical decision making

Majors
Coursework in the major includes core requirements (15 credits), and completion of an emphasis area (21 credits). Students also select 24 credits from a list of approved electives or any university minor outside the chosen emphasis area. A grade of “C” or better must be earned in all graded major core and emphasis required classes.

**Major Core Requirements (15 credits):**

**MEDIA**
1. 1030 Media Technologies I - Image Manipulation 1 cr
2. 1110 Media Technologies II - Video 1 cr
3. 1130 Media Technologies III - Web 1 cr
4. 1230 Visual Communication 3 cr
5. 1630 Introduction to Mass Media 3 cr
6. 3930 Communication Law 3 cr
7. 4990 Communication Internship 3 cr

**Journalism Emphasis**

*Required Courses (19 credits):*

**MEDIA**
1. 1160 Software: InDesign Basic 1 cr
2. 1930 Basic Photography 3 cr
3. 2030 Basic Newswriting and Reporting 3 cr
4. 3730 Project Writing and Reporting 3 cr
5. 3830 Editing for Print 3 cr
6. 4140 U.S. Investigative Journalism 3 cr
7. **POLISCI** 3000+ Any upper division POLISCI course 3 cr

* If not taken for emphasis requirement, this course may be taken as an elective.

**Electives (select at least 26 credits for the comprehensive major or select any university minor outside the emphasis area):**

**MEDIA**
1. XXXX Any additional software courses 2 cr
2. 2050 Writing for Electronic Media 3 cr
3. 2090 Web Development Basic 3 cr
4. 3100 Topics in Communication 1-3 cr
5. 3120 Applied Communication (Publications)** 3 cr
6. 3560 Digital Journalism Production 3 cr
Photography and Web Development Emphasis
Required Courses (21 credits)

Any three courses

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<td>MEDIA 1100</td>
<td>Software: Flash Basic*</td>
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<td>MEDIA 1140</td>
<td>Software: Integrated Design*</td>
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<td>MEDIA 1160</td>
<td>Software: InDesign Basic*</td>
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<td>MEDIA 1930</td>
<td>Basic Photography</td>
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<td>MEDIA 2090</td>
<td>Web Development Basic</td>
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<td>MEDIA 3030</td>
<td>Multimedia Projects</td>
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<td>MEDIA 3100</td>
<td>Topics in Communication</td>
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<tr>
<td>MEDIA 3500</td>
<td>Photography II</td>
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Student will choose one of the following courses:

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<td>MEDIA 3090</td>
<td>Web Development Intermediate*</td>
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<td>MEDIA 4500</td>
<td>Photography III*</td>
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*If not taken as emphasis requirement, may be an elective.

Electives (24 credits OR any minor outside emphasis)

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<td>MEDIA 3120</td>
<td>Applied Communication***</td>
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<td>MEDIA 3580</td>
<td>Documentary</td>
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<td>MEDIA 3770</td>
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<td>MEDIA 4030</td>
<td>Applied Communication***</td>
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<tr>
<td>ENGL 2250</td>
<td>Intro to Film</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 3950</td>
<td>Writing for Performance</td>
<td>3 cr</td>
</tr>
<tr>
<td>COSC 1130</td>
<td>Intro to Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COSC 2430</td>
<td>Object-Oriented Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUS 1030</td>
<td>Intro to Music History</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEAT 1230</td>
<td>Stagecraft</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Repeatable if different topics
***Repeatable up to nine credits

Public Relations Emphasis
Required Courses (21 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 1360</td>
<td>Public Relations Principles</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 1930</td>
<td>Basic Photography*</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2030</td>
<td>Basic Newswriting and Reporting*</td>
<td>3 cr</td>
</tr>
<tr>
<td>or MEDIA 2050</td>
<td>Writing for Electronic Media*</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Choose two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 3010</td>
<td>Business Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3150</td>
<td>Communication Research</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3730</td>
<td>Project Writing &amp; Reporting</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Choose two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 3800</td>
<td>Meetings and Events*</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3860</td>
<td>Media Advertising and Sales*</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 4270</td>
<td>Volunteers, Fundraising and Grants</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

* If not taken for emphasis requirement, this course may be taken as an elective.

Electives (minimum 24 credits for the comprehensive major or select any university minor outside the emphasis area):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA XXXX</td>
<td>Any MEDIA course***</td>
<td>1-24 cr</td>
</tr>
<tr>
<td>BUSINESS 2630</td>
<td>Introduction to Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSINESS 3630</td>
<td>Advertising</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3360</td>
<td>Magazine Writing and Editing</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLOGY 3230</td>
<td>Human Relations</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH 3500</td>
<td>Persuasion and Argumentation</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH 4010</td>
<td>Public Address and Speech Writing</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

*** MEDIA courses not counted in requirements for core or this emphasis may be chosen as electives.

Video and Audio Production Emphasis
Required Courses (21 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 2470</td>
<td>Production Foundations</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2530</td>
<td>Digital Audio Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3120</td>
<td>Applied Communication**</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3240</td>
<td>Studio Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 4030</td>
<td>Applied Communication**</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

One set of courses from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 2030</td>
<td>Basic Newswriting and Reporting*</td>
<td>3 cr</td>
</tr>
<tr>
<td>or MEDIA 3560</td>
<td>Digital Journalism Production*</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2050</td>
<td>Writing for Electronic Media*</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3840</td>
<td>Production Capstone*</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

* If not taken for emphasis requirement, this course may be taken as an elective.

**These courses are repeatable, up to nine credits applied to the major; may not be double counted between emphasis requirements and electives.

Electives (at least 24 credits or the comprehensive major or select any university minor outside the emphasis area):

Any MEDIA course not in core or emphasis requirements.

BUSADMIN 2630 | Introduction to Marketing  | 3 cr |
| BUSADMIN 3630 | Advertising                  | 3 cr |

Minors

Journalism Minor (24 credits)
Required Courses (13 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 1160</td>
<td>Software: InDesign Basic</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1930</td>
<td>Basic Photography</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2030</td>
<td>Basic Newswriting and Reporting*</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3730</td>
<td>Project Writing and Reporting</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3830</td>
<td>Editing for Print</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (Select at least 11 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 1230</td>
<td>Visual Communication</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
**Media Studies majors may not double count core requirements and the Social Media minor; may not be double counted between emphasis requirements with minor requirements or electives; select any other minor elective as a substitute.**

---

**Photography Minor (24 credits) **

**Required Courses (18 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 1030 Media Technologies I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1110 Media Technologies II (Video)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1130 Media Technologies III (Web)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1230 Visual Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 1930 Basic Photography</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3500 Photography II</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3590 Social Media &amp; Society</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 4500 Photography III</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**ART Electives (6 credits - Select two of the following):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1010 Drawing I: Basic Drawing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1420 Basic Design I: 2-D</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1630 Lettering and Typographical Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2430 Art Survey</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 4230 Theory of Art</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Media Studies majors may not double count core requirements with minor requirements or electives; select any other minor elective as a substitute.

---

**Public Relations Minor (24 credits) **

**Required Courses (12 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 1360 Public Relations Principles</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Choose one (3 credits) from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 2030 Basic Newswriting and Reporting</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2050 Writing for Electronic Media</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 3800 Meetings and Events</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3860 Media Advertising and Sales</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 4270 Volunteers, Fundraising and Grants</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Select any other Media Studies courses for an additional 12 credits.

---

**Social Media Minor (24 credits) **

**Required Courses (18 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 1030 Media Technologies I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1110 Media Technologies II (Video)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1130 Media Technologies III (Web)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1630 Intro to Mass Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 1360 PR Principles</td>
<td>3 cr</td>
</tr>
<tr>
<td>OR BUSINESS 2630 Intro to Marketing</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 3240 Studio Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3560 Digital Journalism Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3580 Documentary</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3840 Production Capstone</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3860 Media Advertising and Sales</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3930 Communication Law</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

*Media Studies majors may not double count core requirements with minor requirements or electives; select any other minor elective as a substitute.

---

**Hands-On Elective (3 credits) Choose one of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 1930 Basic Photography</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2030 Basic Newswriting and Reporting</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2152 Communication Law</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2530 Digital Audio Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3030 Multimedia Projects</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Theoretical Elective (3 credits) Choose one of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 2090 Web Development Basic</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3100 Topics in Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3150 Communication Research</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3200 Gender and Popular Culture</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3580 Documentary</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3770 Theories of Media and Culture</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3860 Media Advertising and Sales</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

---

**Video and Audio Production Minor (24 credits) **

**Required Courses (15 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 1030 Media Technologies I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1110 Media Technologies II (Video)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1130 Media Technologies III (Web)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1630 Intro to Mass Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2470 Production Foundations</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2530 Audio Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3120 Applied Communication</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Electives (9 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 1250 Audio Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3120 Media Technologies I (Image Manipulation)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 3150 Communication Research</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3200 Gender and Popular Culture</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3580 Documentary</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3860 Media Advertising and Sales</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3930 Communication Law</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

*Media Studies majors may not double count core requirements with minor requirements or electives; select any other minor elective as a substitute.

---

**Web Development Minor (24 Credits) **

**Required Courses (18 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 1030 Media Technologies I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1110 Media Technologies II (Video)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1130 Media Technologies III (Web)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1230 Visual Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td>OR BUSINESS 2630 Intro to Marketing</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 3120 Applied Communication (Social Media)</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3590 Social Media and Society</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3930 Communication Law</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
**DEPARTMENT OF INDUSTRIAL STUDIES**

www.uwplatt.edu/ind_studies

**Department Chair:** Francis X. Steck

**Office:** 409 Pioneer Tower
**Phone:** 608.342.1246
**E-mail:** steck@uwplatt.edu

**Professors:**
Colleen Kaiser
Kyle Metzloff
Warner Smidt
Francis X. Steck
Majid Tabrizi

**Associate Professor:**
Mark Albers

**Assistant Professors:**
Mark Miner
Ryan Novak
Eric Rimel
Billy Huang

**Senior Lecturer:**
David Heimerdinger

**Lab Manager:**
Rick Zach

**Academic Department Associate:**
Cindy Vondra

**About the Department and Majors**

Technology education prepares students to teach in elementary, middle level and secondary school systems. A student completing this major receives Department of Public Instruction certification to teach technology education (220 license). The strength of the program is in the collaboration between professional education course requirements and technology course requirements. Technology education majors learn hands-on approaches to illustrate the effects of technology on modern life.

The Industrial Technology Management programs are accredited by the Association of Technology, Management, and Applied Engineering. Industrial Technology Management is a hands-on, applied engineering, management degree. Students are required to select at least one emphasis as a part of this major.

The Building Construction Management Emphasis prepares graduates to enter middle management positions in construction industries as project managers, estimators, schedulers and in supervision.

The Building Construction Safety Management Emphasis prepares students to enter the construction industry as safety directors, safety managers, safety trainers and consultants.

**Minors**

Building Construction Management
Computer Integrated Manufacturing
Drafting and Product Development Technology
Industrial Control Systems Technology
Metals Processing Technology
Occupational Safety
Plastics Processing Technology
Production and Manufacturing Management

**Renewable Energy Minor**
The Manufacturing Technology Management Emphasis prepares graduates to enter industry in technical, engineering, managerial and staff positions in the areas of production, manufacturing, design, technical sales and services, and quality assurance. Coursework in the Metals Processing Technology Minor is certified by the Foundry Educational Foundation, one of twenty-five certified schools in the nation.

The Occupational Safety Management Emphasis prepares graduates to enter manufacturing, construction, business, consulting agencies, insurance companies and government agencies in management and engineering positions.
A cooperative education and internship program is administered by the department. Through a supervised work experience with approved employers, students gain the advantage of up-to-date knowledge and practical experience related to their major and area of specialization. Students wishing to complete an industrial internship must meet the following requirements: (a) The following general education requirements must be completed before a student will be and permitted to enroll in an industrial studies internship: ENGLISH 1130 and 1230, SPEECH 1010 and mathematics (three credits); (b) Be in good academic standing and be classified as a junior (minimum 60 credits); (c) Be approved and registered for the credits prior to the internship or cooperative education experience; (d) have completed 18 credits of industrial studies coursework (INDUSTDY) to include INDUSTDY 2710 Principles of Safety. Three credits in INDUSTDY 4990 Industrial Studies Internship are required; however, a maximum of eight credits may be counted towards a student’s degree.

Mission Statements and Student Learning Outcomes for the Department and Majors/Emphases

The mission of the UW-Platteville Department of Industrial Studies is to provide exceptional quality education and practical experiences for students. The instruction provided will emphasize theoretical and practical studies, internships, applied research and the relationship of management and technology toward the preparation of competent leaders for a global society.

Industrial Technology Management Emphases

Mission Statements

1. The mission of the Building Construction Management Emphasis is to prepare competent professional leaders who understand the interrelationships between management and construction technology and apply their skills to solve real-world problems in a global society. Building construction management student learning outcomes are:
   a. Students will be able to estimate the cost of construction.
   b. Students will be able to plan and execute a schedule of construction.
   c. Students will be able to demonstrate proficiency in using computer graphics and management software programs.
   d. Students will be able to evaluate and plan for HVAC, electrical and plumbing using various schematic drawings.
   e. Students will be able to identify advantages and disadvantages of various construction materials for specific situations.
   f. While on the job site, students will be able to demonstrate safe operation of construction tools and equipment.
   g. Students will be able to develop and implement construction safety plans, recognize safe practices and also make corrections for unsafe conditions at the job site.
   h. Students will be able to perform various surveying techniques in plotting for construction.
   i. Students will be able to demonstrate various aspects of construction administration.

2. The mission statement of the building construction safety management emphasis is to develop highly competent professionals and leaders in the fields of construction management and safety who understand the interrelationships between management, construction technologies and site safety. Building construction safety management learning outcomes are as follows. Students will be able to:
   a. Estimate the cost of construction
   b. Plan and execute a schedule of construction
   c. Promote a safety culture
   d. Interpret government regulations and policies as they pertain to construction safety
   e. Conduct job safety analysis and safety inspections of construction sites
   f. Evaluate construction drawings and specifications relative to the construction trades, including, but not limited to, plumbing, electrical and HVAC
   g. Evaluate the safety requirements of construction activities and develop plans of action and safety procedures as needed
   h. Identify advantages and disadvantages of various construction materials for specific situations
   i. Students will have the opportunity to earn an OSHA 30-hour construction safety card

3. The mission of the Manufacturing Technology Management Emphasis is to offer the best educational opportunities to prepare professional and technical leaders for manufacturing and service industries. These opportunities emphasize theoretical and practical experiences, internships and applied research. The program stresses the relationship of management and technology for the preparation of competent industrial leaders for a global manufacturing environment. Manufacturing technology management student learning outcomes are:
   a. Students will be able to identify advantages and limitations of industrial materials in the manufacturing of products.
   b. Students will be able to explain the basics of industrial processes.
   c. Students will be able to develop and execute a production plan for manufacturing and a plan for the procurement of equipment.
   d. Students will be able to assess in practical terms the elements of a quality system.
   e. Students will be able to assess the cost of delivering a product or service using various work measurements and cost analysis techniques.
   f. Students will be able to demonstrate their ability to lead others within the vision, values and ethics in the global economy and deal with personnel issues having an appreciation for cultural differences.
   g. Students will be able to demonstrate their ability to utilize computer technology through graphics, programming, machining and communication.
   h. Students will have the ability to adapt and modify to current needs.
   i. Students will have the ability to problem solve and identify root causes.
   j. Students will be able to understand research procedures through interpretation of data and through conducting research.
k. Students will be able to develop and implement manufacturing safety plans.

4. The mission of the Occupational Safety Management
   Emphasis is to develop highly competent professionals and
   leaders in the field of safety and health through classroom
   preparation, laboratory activities and internships. These
   educational experiences emphasize safety policies,
   procedures, issues and incidents in the global workplace.
   Occupational safety management student learning
   outcomes are:
   a. Students will be able to interpret government laws and
      policies as they pertain to safety.
   b. Students will be able to conduct safety facility
      inspections at work sites.
   c. Students will be able to promote a safety culture.
   d. Students will be able to analyze work situations for
      ergonomic issues.
   e. Students will be able to develop emergency disaster
      preparedness plans.
   f. Students will be able to analyze the safe operation of
      equipment, machines and tools in the course of work.
   g. Students will be able to develop and deliver safety
      programs at the workplace.

Technology Education Mission Statement
The mission statement of the technology education program is to
prepare the finest technology education teachers in the state of
Wisconsin.
Competencies for technology education majors are elaborated
under the 10 Wisconsin Standards for Teacher Development and
Licensure. The WSTDL standards as they apply to technology
education include:

Wisconsin Standards for
Teacher Development and Licensure

Standard # 1: The teacher understands the central concepts,
tools of inquiry and structures of the discipline(s) he or she teaches
and can create learning experiences that make these aspects of
subject matter meaningful for students.

Standard # 2: The teacher understands how children learn and
develop, and can provide learning opportunities that support their
intellectual, social and personal development.

Standard # 3: The teacher understands how students differ in
their approaches to learning and creates instructional opportunities
that are adapted to diverse learners.

Standard # 4: The teacher understands and uses a variety
of instructional strategies to encourage students' development of
critical thinking, problem-solving and performance skills.

Standard # 5: The teacher uses an understanding of individual
and group motivation and behavior to create a learning environment
that encourages positive social interaction, active engagement in
learning and self-motivation.

Standard # 6: The teacher uses knowledge of effective verbal,
nonverbal and media communication techniques to foster active
inquiry, collaboration and supportive interaction in the classroom.

Standard # 7: The teacher plans instruction based upon
knowledge of subject matter, students, the community and
curriculum goals.

Standard # 8: The teacher understands and uses formal
and informal assessment strategies to evaluate and ensure the
continuous intellectual, social and physical development of the
learner.

Standard # 9: The teacher is a reflective practitioner who
continually evaluates the effects of his/her choices and actions on
others (students, parents and other professionals in the learning
community) and who actively seeks out opportunities to grow
professionally.

Standard # 10: The teacher fosters relationships with school
colleagues, parents and agencies in the larger community to
support students' learning and well-being.

General Requirements
Bachelor of Science Degree
Total for graduation........................................... 120 credits
General education ................................................ 44-58 credits
Major studies...................................................... 48-54 credits

Technology Education Major
Coursework in the major includes general university requirements,
professional education requirements and technology education
requirements. An option is available for students interested in
qualifying for dual certification in both agricultural education and
technology education; please see your advisor for details.

Core Courses
Professional education requirements (42-52 credits) – G.P.A. 2.75
or better

Core Courses plus select Option A,
Option B or Option C:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 1230</td>
<td>Introduction to Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 2130</td>
<td>Human Growth and Development</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 3320</td>
<td>Psychology of Learning</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 3630</td>
<td>Ethnic and Gender Equity in Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 4660</td>
<td>Student Teaching</td>
<td>12 cr</td>
</tr>
<tr>
<td>TEACHING 4760</td>
<td>Internship in Teaching</td>
<td>12 cr</td>
</tr>
<tr>
<td>TEACHING 4990</td>
<td>Licensure Portfolio</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 3900</td>
<td>Planning Cooperative Education in Agriculture</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 3930</td>
<td>Teaching Technology Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4640</td>
<td>Curriculum and Facility Planning</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4820</td>
<td>Principles of Vocational Technology Education</td>
<td>2 cr</td>
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</table>

Option A (8 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 4020</td>
<td>Educational Media Technology</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 4210</td>
<td>Pre-Student Teaching</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 3110</td>
<td>Key Concepts of Middle Level Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 3120</td>
<td>Characteristics of Transcendents</td>
<td>2 cr</td>
</tr>
</tbody>
</table>
Option B (12 credits):
TEACHING 4020 Educational Media Technology 2 cr
TEACHING 4210 Pre-Student Teaching 2 cr
TEACHING 3110 Key Concepts of Middle Level Education 2 cr
TEACHING 3120 Characteristics of Transcendentals 2 cr
TEACHING 4220 Advising Interaction and Communication 2 cr
TEACHING 4620 Teaching Transcendentals 2 cr

Option C (18 credits):
TEACHING 4050 Middle Level Professional Preparation Seminar 18 cr

Technology Education Major (36 credits) GPA 2.75 or better

Required (27 credits):
MEDIA 1230 Visual Communication 3 cr
or MEDIA 1930 Basic Photography 3 cr
INDUSTDY 1030 Introduction to Manufacturing 3 cr
INDUSTDY 1130 Wood Technology 3 cr
INDUSTDY 1200 AC/DC Fundamentals 3 cr
INDUSTDY 1230 Technical Drafting 3 cr
or INDUSTDY 1260 Building Construction Drafting 3 cr
INDUSTDY 1430 Introduction to Metals Processes 3 cr
INDUSTDY 1530 Power Systems Technology 3 cr
INDUSTDY 1830 Synthetic and Composite Materials 3 cr
INDUSTDY 2430 Building Construction Materials 3 cr

Electives (9 credits)
Select any three INDUSTDY courses

Other Requirements:
- PPST/CBT
  Reading (175/322)
  Writing (174/320)
  Math (173/318)
- Admission to School of Education (requires admission portfolio)
- Admission to student teaching (requires student teaching portfolio and Praxis competency exam)
- Credit check
- Licensure portfolio
- Overall G.P.A. of 2.75 is needed to complete program
- Check:
  1. Minimum 120 credit
  2. 39 credits in 3000 or 4000 level courses
  3. Cumulative grade point average of at least 2.75
  4. Grade point average of at least 2.75 within the major
  5. 32 credits in residence at UW-Platteville; also 23 of the last 32 credits must be in residence.

Agricultural/Industrial Technology Education

Teaching (B-21 Dual Certification)
Students wishing to receive certification to teach in both agricultural education AND technology education may pursue a dual certification by taking coursework in both areas. Dual certification requires student teaching in both areas and taking/passing the Praxis II competency exam in both areas as well. The list of courses may be found under agricultural education.

Industrial Technology Management Major


Required Courses (9 credits):
INDUSTDY 2710 Principles of Safety 3 cr
INDUSTDY 4980 Training and Supervision 3 cr
INDUSTDY 4990 Industrial Studies Internship 3 cr

Natural Science Requirements Specific to the Major (may also be used to fulfill general education requirements):
PHYSICS 1050 Principles of Physics 5 cr
CHEMISTRY 1050 General Chemistry 5 cr
(Note: students choosing the building construction management or building construction safety management emphasis may select GEOGRPHY 1040 Planet Earth or GEOLOGY 1140 Physical Geology in lieu of either physics or chemistry)

Mathematics Requirement

( must choose one of the following options)
Option 1 – (math proficiency level of 40 required) 2640 Calculus and Analytic Geometry and 1830 Elementary Statistics
Option 2 – (math proficiency level of 30 required) 2530 Trigonometry and Analytic Geometry and 1830 Elementary Statistics
Option 3 – (math proficiency level of 20 required) 2450 Precalculus and 1830 Elementary Statistics
Option 4 – (math proficiency level of 15 required) 1530 College Algebra and 1830 Elementary Statistics
Option 5 – (math proficiency level of 10 required) 15 Intermediate Algebra, 1530 College Algebra and 1830 Elementary Statistics

Building Construction Management Emphasis (51 credits)

www.uwplatt.edu/ind_studies/bcm.html

Required Professional Concentration Courses (22 credits):
INDUSTDY 1260 Building Construction Drafting 3 cr
COMPUTER 1830 Microcomputer Applications 3 cr
ACCTING 2010 Financial Accounting 3 cr
INDUSTDY 3140 General Construction Estimating 3 cr
INDUSTDY 3180 Construction Safety Management 3 cr
INDUSTDY 3220 Construction Procedures 3 cr
INDUSTDY 4840 Construction Administration 3 cr

Required Technical Concentration Courses (21 credits):
INDUSTDY 1130 Wood Technology 3 cr
INDUSTDY 2430 Building Construction Materials 3 cr
INDUSTDY 2540 Materials and Techniques of Building Construction 3 cr
INDUSTDY 3210 Construction Laboratory 3 cr
INDUSTDY 4530 Residential Planning and Design 3 cr
INDUSTDY 4630 Building Systems Analysis 3 cr
INDUSTDY 4960 Commercial Building Planning and Construction 3 cr
**Electives (8 credits):**

MEDIA 3010 Business Communication 3 cr 

or

ENGLISH 3000 Technical Writing 3 cr 
CIVILENG 2630 Elements of Surveying 3 cr 
CIVILENG 4030 Construction Equipment 2 cr 
BUSADMIN 2330 Leadership and Management 3 cr 
BUSADMIN 3030 Human Resource Management 3 cr 
BUSADMIN 3130 Legal Environment of Business 3 cr 
BUSADMIN 3430 Risk Management 3 cr 
GENENG 2130 Engineering Mechanics-Statics 3 cr 
INDUSTDY 4020 Topics in Industrial Studies 1-3 cr 
INDUSTDY 4650 Commercial Estimating 3 cr 
INDUSTDY 4990 Industrial Studies Internship 1-5 cr

**Building Construction Safety Management Emphasis (64 credits)**

**Construction concentration – 28 credits required**

INDUSTDY 1130 Wood Technology 3 cr 
INDUSTDY 1260 Building Construction Drafting 3 cr 
INDUSTDY 2430 Building Construction Materials 3 cr 
INDUSTDY 3140 General Construction Estimating 3 cr 
INDUSTDY 3210 Construction Laboratory 3 cr 
INDUSTDY 3220 Construction Procedures 3 cr 
INDUSTDY 4630 Building Systems Analysis 3 cr 
INDUSTDY 4840 Construction Administration 3 cr 
INDUSTDY 4960 Commercial Building, Planning and Construction 3 cr

**Safety concentration – 24 credits required**

BUSADMIN 3430 Risk Management 3 cr 
INDUSTDY 3180 Construction Safety Management 3 cr 
INDUSTDY 3590 Industrial Hygiene Technology 3 cr 
INDUSTDY 3610 Safety and Worker Compensation Laws 3 cr 
INDUSTDY 4040 Environmental Safety Management 3 cr 
INDUSTDY 4770 Loss Control Safety Management 3 cr 
INDUSTDY 4780 Ergonomics in the Workplace 3 cr 
INDUSTDY 4790 Safety Management Components 3 cr

**Technical electives – 12 credits required**

BUSADMIN 3860 (6 credits of BUSADMIN) 3 cr 
BUSADMIN 3030 Human Resource Management 3 cr 
BUSADMIN 3130 The Legal Environment of Business 3 cr 
ENGLISH 3000 Technical Writing 3 cr 

or

MEDIA 3010 Business Communication 3 cr 
INDUSTDY 3810 Alcohol and Other Drugs as Related to Safety 3 cr 
INDUSTDY 4020 Topics in Industrial Studies 1-3 cr 
INDUSTDY 4650 Commercial Estimating 3 cr 
INDUSTDY 4750 Disaster Preparedness 3 cr 
INDUSTDY 4810 Fire Protection 3 cr 
INDUSTDY 4970 Independent Study 1-3 cr 
INDUSTDY 4990 Industrial Studies Internship 1-5 cr 

Select individual courses and/or a minor to complete the degree.

**Manufacturing Technology Management Emphasis (60 credits)**

This emphasis consists of 60-66 credits comprised of coursework in the professional concentration, technical core and a 24-30 credit technical minor.

**Required Professional Concentration Courses (15 credits):**

- INDUSTDY 1030 Introduction to Manufacturing 3 cr 
- INDUSTDY 3460 3D Industrial Production Drafting 3 cr 
- INDUSTDY 4480 Industrial Robotics 3 cr 
- INDUSTDY 4900 Work Measurement and Human Factors 3 cr 
- INDUSTDY 4940 Quality Assurance 3 cr 
- INDUSTDY 4950 Production Planning and Control 3 cr

**Required Technical Core Courses (21 credits):**

- INDUSTDY 1200 AC/DC Fundamentals 3 cr 
- INDUSTDY 1230 Technical Drafting 3 cr 
- COMPUTER 1130 Introduction to Programming 3 cr 
- INDUSTDY 1830 Microcomputer Applications 3 cr 
- INDUSTDY 1430 Introduction to Metals Processes 3 cr 
- INDUSTDY 1530 Power Systems Technology 3 cr 
- INDUSTDY 1830 Synthetic and Composite Materials 3 cr

**Electives:**

- INDUSTDY 4990 Industrial Studies Internship 1-5 cr 

Select individual courses and/or a university minor in consultation with an advisor to complete the degree.

**Occupational Safety Management Emphasis (54 credits)**

[www.uwplatt.edu/ind_studies/safe.html](http://www.uwplatt.edu/ind_studies/safe.html)

**Required Professional Concentration Courses (18 credits):**

- INDUSTDY 1030 Introduction to Manufacturing 3 cr 
- COMPUTER 1830 Microcomputer Applications 3 cr 
- BUSADMIN 2330 Leadership & Management 3 cr 
- ENGLISH 3000 Technical Writing 3 cr 

or

- BUSADMIN 3010 Business Communication 3 cr 
- CRIMLJUS 2630 Private Security Operations 3 cr

**Required Safety Concentration Courses (18 credits):**

- INDUSTDY 3590 Industrial Hygiene Technology 3 cr 
- INDUSTDY 3610 Safety Worker Compensation Laws 3 cr 
- INDUSTDY 4040 Environmental Safety Management 3 cr 
- INDUSTDY 4770 Loss Control Safety Management 3 cr 
- INDUSTDY 4780 Ergonomics in the Workplace 3 cr 
- INDUSTDY 4790 Safety Management Components 3 cr

**Technology Lab Classes (3 credits):**

- INDUSTDY 1200 AC/DC Fundamentals 3 cr 
- INDUSTDY 1230 Technical Drafting 3 cr 
- INDUSTDY 1430 Introduction to Metals Processes 3 cr 
- INDUSTDY 1530 Power Systems Technology 3 cr 
- INDUSTDY 1830 Synthetic and Composite Materials 3 cr

**Technical Electives (15 credits):**
Technical Minors

Building Construction Management Minor (24 credits)

Required Courses (if not completed as part of the major) (6 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>1260 Building Construction Drafting</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>2710 Principles of Safety</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Required Courses (10 credits):

<table>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>2430 Building Construction Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3140 General Construction Estimating</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3220 Construction Procedures</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (8 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>4020 Topics in Industrial Studies</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4530 Residential Planning and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4630 Building Systems Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4840 Construction Administration</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4960 Commercial Building</td>
<td>3 cr</td>
</tr>
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</table>

Drafting and Product Development Technology Minor (30 credits)

Required Courses (if not completed as part of the major) (12 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>1030 Introduction to Manufacturing</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>1260 Technical Drafting</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>2910 Plastics Technology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3130 The Legal Environment of Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3160 Machining and CNC Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3940 Materials Testing and Evaluation</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4020 Topics in Industrial Studies</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4780 Ergonomics in the Workplace</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4850 Thermoforming Technology</td>
<td>3 cr</td>
</tr>
<tr>
<td>OR</td>
<td>4860 Injection Molding Technology</td>
<td>3 cr</td>
</tr>
<tr>
<td>OR</td>
<td>4870 Extrusion Technology</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Industrial Control Systems Technology Minor (24 credits)

Required Courses (if not completed as part of the major) (6 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>1200 AC/DC Fundamentals</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>1530 Power Systems Technology</td>
<td>3 cr</td>
</tr>
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</table>

Required Courses (12 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>2260 Semiconductors</td>
<td>3 cr</td>
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<tr>
<td>INDUSTDY</td>
<td>3230 Digital Electronics</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3550 Fluid Power and Servo Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3560 Industrial Control Systems</td>
<td>3 cr</td>
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Electives (at least 6 credits):

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COMPUTER</td>
<td>1430 Programming in C++</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3160 Machining and CNC Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4020 Topics in Industrial Studies</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4030 Electrical Power</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4130 Industrial Laser Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4480 Industrial Robotics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Computer Integrated Manufacturing Minor (27 credits)

Required Courses (if not completed as part of the major) (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>1030 Introduction to Manufacturing</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>1430 Introduction to Metals Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>1530 Power Systems Technology</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Required Courses (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>3160 Machining and CNC Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3460 3D Industrial Production Drafting</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3560 Industrial Control Systems</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (at least 9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>4020 Topics in Industrial Studies</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4130 Industrial Laser Application</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4160 Metal Manufacturing Senior Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>4480 Industrial Robotics</td>
<td>3 cr</td>
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</table>

Metals Processing Technology Minor (27 credits)

Required Courses (if not completed as part of the major) (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>1030 Introduction to Manufacturing</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>1430 Introduction to Metals Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>1830 Synthetic and Composite Materials</td>
<td>3 cr</td>
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</tbody>
</table>

Required Courses (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY</td>
<td>3150 Polymers and Ceramic Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3310 Metallurgy and Joining Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY</td>
<td>3460 3D Industrial Production Drafting</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Electives (9 credits):
INDUSTDY 3160 Machining and CNC Programming 3 cr
INDUSTDY 3480 Metalcasting Technology I 3 cr
INDUSTDY 3940 Materials Testing and Evaluation 3 cr
INDUSTDY 4020 Topics in Industrial Studies 1-3 cr
INDUSTDY 4130 Industrial Laser Application 3 cr
INDUSTDY 4160 Metal Manufacturing Senior Design 3 cr
INDUSTDY 4490 Metalcasting Technology II 3 cr

Occupational Safety Minor (24 credits)
Required Courses (12 credits):
INDUSTDY 2710 Principles of Safety 3 cr
INDUSTDY 3610 Safety and Worker Compensation Laws 3 cr
INDUSTDY 4040 Environmental Safety Management 3 cr
INDUSTDY 4770 Loss Control Safety Management 3 cr
Electives (12 credits):
INDUSTDY 3180 Construction Safety Management 3 cr
INDUSTDY 3590 Industrial Hygiene Technology 3 cr
INDUSTDY 3810 Alcohol and Other Drugs as Related to Safety 3 cr
INDUSTDY 4750 Disaster Preparedness 3 cr
INDUSTDY 4780 Ergonomics in the Workplace 3 cr
INDUSTDY 4790 Safety Management Components 3 cr
INDUSTDY 4810 Fire Protection 3 cr

Plastics Processing Technology Minor (24 credits)
Required Courses
(if not completed as part of the major) (6 credits):
INDUSTDY 1430 Introduction to Metals Processes 3 cr
INDUSTDY 1830 Synthetic and Composite Materials 3 cr
Required Courses (6 credits):
INDUSTDY 2910 Plastics Technology 3 cr
INDUSTDY 3150 Polymeric and Ceramic Materials 3 cr
Electives (12 credits):
INDUSTDY 3940 Materials Testing and Evaluation 3 cr
INDUSTDY 4020 Topics in Industrial Studies 1-3 cr
INDUSTDY 4130 Industrial Laser Application 3 cr
INDUSTDY 4850 Thermoforming Technology 3 cr
INDUSTDY 4860 Injection Molding Technology 3 cr
INDUSTDY 4870 Extrusion Technology 3 cr

Production and Manufacturing Management Minor (27 credits)
This minor is not available to a student having an emphasis in manufacturing technology management.
Required Courses (18 credits):
INDUSTDY 1030 Introduction to Manufacturing 3 cr
INDUSTDY 2710 Principles of Safety 3 cr
INDUSTDY 4900 Work Measurement and Human Factors 3 cr
INDUSTDY 4940 Quality Assurance 3 cr
INDUSTDY 4950 Production Planning and Control 3 cr
or
BUSADMIN 4120 Operations Management 3 cr
INDUSTDY 4980 Training and Supervision 3 cr

Electives (9 credits):
INDUSTDY 1200 AC/DC Fundamentals 3 cr
INDUSTDY 1230 Technical Drafting 3 cr
INDUSTDY 1430 Introduction to Metals Processes 3 cr
INDUSTDY 1530 Power Systems Technology 3 cr
INDUSTDY 1830 Synthetic and Composite Materials 3 cr
Interim Dean: Mesut Muslu
Assistant Dean for Faculty/Staff Services: Chanaka Mendis
Student Services: Christina Curras
Assistant Dean for Outreach and New Ventures: Philip Parker
Office: 100 Ottensman Hall
Phone: 608.342.1561
Fax: 608.342.1566
E-mail: emsdeansoffice@uwplatt.edu

Departments
Department of Chemistry
Department of Civil and Environmental Engineering
Department of Computer Science and Software Engineering
Department of Electrical Engineering
Department of Engineering Physics
Department of General Engineering
Department of Mathematics
Department of Mechanical and Industrial Engineering

The following engineering degree programs are accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.
- Civil Engineering
- Electrical Engineering
- Engineering Physics
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering
- Software Engineering

Chemistry is accredited by the American Chemical Society

The UW-Platteville College of Engineering, Mathematics and Science offers degree programs in chemistry, computer science, engineering physics, microsystems & nanomaterials, sustainable & renewable energy systems, mathematics, civil, electrical, environmental, industrial, mechanical and software engineering. Curricular requirements provide a strong foundation in the student’s major field of study, supplemented by a broad background in the social sciences, and humanities, and fine arts. In this way, the college enables its graduates to be adaptable to change, to be productive citizens and to practice their professions with proficiency and integrity. The college also provides general education courses in mathematics and some of the natural sciences. Placement for graduates of the college has always traditionally been excellent. Most graduates find they are placed in challenging positions at competitive salaries. The college strives to be a leader in innovative, high-quality undergraduate education.

Educational Goals and Objectives
The College of EMS’s educational vision, goals and objectives are presented in the college strategic plan. The strategic plan is available in the dean’s office and is on the college website.

Collaborative Engineering Programs
UW-Platteville has partnered with the thirteen UW Colleges campuses to provide electrical engineering and mechanical engineering bachelor’s degrees that are ABET accredited to individuals throughout the state of Wisconsin. Because an associate degree earned through UW Colleges automatically satisfies all of UW-Platteville’s general education requirements, most students work on the general education courses, as well as the pre-engineering courses (e.g., math, physics, chemistry) at one of the two-year campuses. When students are ready to begin the professional engineering courses, they apply to UW-Platteville.

UW-Platteville delivers the professional engineering courses to students at a distance in two ways. Students near the UW-Fox Valley, UW-Rock County, and UW-Washington County campuses may take the professional engineering courses taught by UW-Platteville personnel through a combination of face-to-face instruction and distance learning technology. Students anywhere in the state of Wisconsin may take the professional engineering courses via distance learning technology. Lab managers regularly visit selected UW Colleges campuses to facilitate the required lab work for courses that include a lab component.

Cooperative Education and Internships
The college offers many cooperative education and internship programs for qualified students. Co-ops, which combine classroom learning with on-the-job experience, allow students to relate theory to practice. A time frame for a co-op is considered one semester plus a summer session. The work period is spent in full-time employment with private industry or a governmental agency. The college considers internships to be summer positions related to the students’ major field of study. Students should contact their academic advisor to discuss the co-op and internship programs.

Transfer Students
Entering transfer engineering students are initially enrolled in the department of general engineering and will be admitted to a degree-granting program upon the fulfillment of the degree-granting program’s admission requirements. All entering transfer engineering students are initially advised by the chair of the general engineering department. The transfer of credits to meet program requirements must be approved by the appropriate department chair or program coordinator. The transfer of credits must follow the specific requirements of the professional program, which the student will be entering. If a professional program requires a minimum grade in a particular course, transfer of credits for that course from another institution will be allowed only if the required minimum grade was achieved.
EMS Admissions and Academic Standards Policies and Procedures
The EMS Admissions and Academic Standards Committee is responsible for the admission and academic policies of the College of EMS. The committee serves as the appeal body for all academic decisions within the college. In addition to meeting all written university policies, rules and regulations regarding admission and academic standards in effect at the time for the university community, students who seek admission to an engineering program must have an ACT math score of 22 or above, or have a grade of "C" or better in Calculus 2640 (or its equivalent). As with the UW-Platteville admission requirements, nontraditional applicants will be evaluated individually for admission.

Program Standards
Students enrolled in degree programs within the College of EMS are governed by the academic standards of the university and the academic standards of their degree program. In some cases, the academic standards and requirements of a degree program are more rigorous than those of the university. For example, each degree program may stipulate grade requirements in specific major courses. In some programs, the requirement might be a "C" in selected courses and a 2.0 grade point average over a number of specific courses. Students may obtain detailed descriptions of a program’s academic standards and requirements from the specific program catalog section. The requirements of the engineering majors meet or exceed the general education requirements in many areas, particularly mathematics and natural sciences. Therefore, the number of credits necessary to meet the university’s general education requirements is not listed with each program. Students should check with their advisor or their department chair to determine the additional courses necessary for graduation beyond those required by their major. Curricular patterns and courses do change. The college and the university reserve the right to change both the college and the general university requirements at any time in order to better serve the long-range interests of students.

International Exchange Program
The university has international exchange programs with France, Germany, Ireland, Turkey, Norway, Sweden, Australia and the Netherlands. Programs are based on a one-to-one exchange with host universities, and automatically fulfill the international general education requirement. Participation in this program will not delay a student’s graduation date. The program is designed to provide students with the opportunity to gain technical and international experience while paying UW-Platteville tuition and fees. Grades and credits earned at a partner institution will be included in the calculation of the UW-Platteville grade point average. This is a valuable learning experience to broaden a student’s awareness of other cultures and diverse situations.

For more information, please contact the Education Abroad office at studyabroad@uwplatt.edu.

Articulation Agreements
Articulation agreements provide opportunities for students to complete their first two or three years of study at one university before transferring to a partnering university to complete the coursework necessary for their engineering degree. UW-Platteville has articulation agreements with several institutions, some being other UW campuses.

Information Technology
The college has a number of computer laboratories. Computer labs are accessible during open building hours. In addition to the program computer labs, whose computers carry discipline specific hardware, the college maintains the Engineering Instructional Center as a combined teaching and open lab facility with software applicable to a variety of disciplines. The college maintains several site licenses, which allow students to access software packages in their residence halls.

Academic Dismissal
Students suspended from the university for failure to meet the minimum achievement standards of the university are automatically dismissed from the College of EMS. Engineering students readmitted to the university through the university academic appeal process or whose dismissal is reversed due to performance in Winterim or summer classes are not automatically readmitted to the College of EMS. However, students who re-enter the university after completing a required university suspension will be reinstated contingent upon the reason for dismissal.

Readmission of dismissed students to Engineering:
All dismissed engineering students must appeal through the General Engineering department to be readmitted into engineering. The GE chair, in cooperation with other chairs and the EMS advising office, will make decisions pertinent to readmission of dismissed students. If students are readmitted, the GE Chair and if relevant the degree-granting department chair, in conjunction with the EMS Advising Office will determine if an Academic Action Plan is a necessary requirement for readmission. A readmitted student will be re-assigned a faculty advisor, and a professional advisor from the EMS Advising Office will serve in a supplemental capacity. The professional advisor will advise the student for at least one semester.

The College of EMS Student Success Programs
www.uwplatt.edu/ems-success

Director: Tammy J. Salmon-Stephens
e-mail: salmont@uwplatt.edu
Special Programs Manager: Jaclyn Esqueda
e-mail: esquedaj@uwplatt.edu
Special Programs Manager: Kimberly Sargent
e-mail: sargentk@uwplatt.edu
Special Programs Manager: Robert Stuewer
e-mail: stuwerr@uwplatt.edu

Vision
The College of EMS Student Success Programs vision is to build institutional capacity and enhance student access to degree attainment through campus and college partnerships.
Mission
The College of EMS Student Success Programs (SSP) mission is to provide supplemental student services and advising to assist students in maximizing their educational experiences.

There are four components to the College of EMS Student Success Programs.

Women in Engineering Mathematics and Science Program (WEMS)
www.uwplatt.edu/ems-success/wems

The Women in EMS Program is highly student-focused and supports both continuing and prospective students through several high-impact learning experiences, programs and initiatives that meet UW-Platteville's Columns of Learning and Development, including:

- Collegiate Section of the Society of Women Engineers
- The Women in Engineering, Math and Science (EMS) Mentor Program and Mentor Center
- Memorial and merit-based scholarships
- Two Living and Learning communities for Women in Science, Technology, Engineering & Mathematics (STEM)
- Women in Science and Engineering (WMSTD 2730) class
- Annual Women in STEM Banquet
- One-on-one support to student populations who are underrepresented in the STEM professions, especially women and all students from African-American, Native American, Latina, Laotian, Vietnamese, Hmong, Cambodian, and international communities.
- Women in EMS Advisory Board
- Outreach Programs such as Sky’s the Limit, Pioneering Your Future, and Women in Engineering Career Day and Pioneering Your Future
- Manage current and seek new federal and private grant funds (STEM Scholars, College of Menominee Nation, Science Talent, Expansion Program, Engineering Ambassadors, etc.) to plan and implement programming designed to improve recruitment and retention efforts, specifically for women and underrepresented minorities.

Engineering, Mathematics and Science Advising Office
www.uwplatt.edu/ems-success/ems-advising

Specifically the EMS Advising Office:

- Shares information about changes in college and program requirements within the college and across the campus
- Provides support to faculty advisors
- Offers college-wide advising workshops
- Assists students with scheduling questions
- Assesses what campus and college resources students need, then encourages and directs students to appropriate campus support services
- Supports students in transition to various career choices
- Collaborates with campus and college services to support the retention of all students and also specifically underrepresented populations, such as women and all students from African-American, Native American, Latina/o, Laotian, Vietnamese, Hmong, Cambodian, and international communities
- Provides one-on-one support for drop-in and scheduled appointments for faculty, staff, and students
- One-on-one support for students who are academically at-risk

Engineering, Mathematics and Science CenterPOINT
The CenterPOINT and other STEP initiatives at UW-Platteville are funded by the National Science Foundation Award #1161180 www.uwplatt.edu/ems-success/centerpoint

The STEP grant is highly student-focused and supports both continuing and prospective students through several high-impact learning experiences, programs, and initiatives that align with UW-Platteville's Columns of Learning and Development, including:

- The College of Engineering, Mathematics and Science (EMS) Center for Projects, Opportunities, Instruction, Networking and Teamwork (CenterPOINT).
- One-on-one support to student populations who are underrepresented in the STEM professions, especially women and all students from African-American, Native American, Latina, Laotian, Vietnamese, Hmong, Cambodian, and international communities.
- Peer mentoring.
- Cohort Development through cohort course scheduling and coordinated services opportunities.
- Advisory Boards.
- Partnerships with other campus offices, including:
  - Office of Multicultural Student Affairs (OMSA)
  - Writing and Tutoring Resources (WaTR)
  - Math Learning Center (MLC)
  - Women in EMS and the Women in STEM Living-Learning Community
  - STEM Scholars team

College of Menominee Nation (CMN) Program
The CMN at UW-Platteville is funded by the National Science Foundation Award # 1037626 http://www3.uwplatt.edu/ems-success/college-menominee-nation-program

The CMN Program is highly student-focused and supports both continuing and prospective students through several high-impact learning experiences, programs and initiatives that meet UW-Platteville’s Columns of Learning and Development, including:

- A collaborative partnership increasing cultural awareness related to Native American issues among College of EMS faculty and staff.
- Supporting CMN STEM recruitment and retention efforts.
- Engagement of Native students in outreach efforts at the middle school or early high school grade levels.
- Increased recruiting efforts at high schools where larger populations of Native American students enroll.
- Working with other UW-Platteville campus offices and stakeholders in order to create a Native friendly environment on the UW-Platteville campus.
- Supporting and expanding UW-Platteville’s current “best practice” retention programs (such as the STEM Scholars Program, and the Women in EMS Program) to increase support for current and additional student populations.
- Becoming advocates for all Native students attending UW-Platteville regardless of academic field.
- Offering an Explore Engineering Summer Program session at CMN.
- Supporting students as they discover and embrace their own culture.
- Being open to learning about other cultures through interactions with CMN students and staff.
DEPARTMENT OF CHEMISTRY

www.uwplatt.edu/chemep/chem

Department Chair: Jeffrey Buboltz
Office: 218 Ottensman Hall
Phone: 608.342.1949
E-mail: buboltzj@uwplatt.edu

About the Department and its Academic Programs
The UW-Platteville Department of Chemistry offers several different majors as well as a minor in chemistry.

Five organized programs of chemistry coursework are offered to meet the varied needs of our students. They include: the standard chemistry major; the American Chemical Society (ACS) approved chemistry major; the biochemistry emphasis; two alternative criminalistics emphases, ACS-track and DNA-track; and the chemistry minor.

Professors:
- Charles R. Cornett
- James P. Hamilton
- Qiong (June) Li
- Chanaka Mendis
- Steven A. Steiner
- Timothy Zauche

Associate Professors:
- Jeffrey Buboltz
- Joseph Wu

Assistant Professors:
- Raja Annamalai
- Brian Barry
- Soma Chattopadhyay
- Mohammad Rabbani

Chemistry Laboratory
Manager:
Kari Frederick

Project Specialist
Abigail Chadwick

Majors
Chemistry – American Chemical Society (ACS) approved
Biochemistry Emphasis – ACS approved
Criminalistics Emphasis – ACS Track or DNA Track
Chemistry – Standard*
*also recommended for secondary-education students who plan to teach high-school chemistry

Educational Mission
The curriculum offered by the chemistry department is intended to help its students develop a sound grasp of the basic concepts and applications that relate to the properties of matter and its chemical transformations, as well as exposing them to relevant experimental methods and analytical techniques. The department is committed to providing a strong foundation in the chemical sciences to all its students, both majors and non-majors.

Therefore, the chemistry program cultivates an intellectual environment and educational experiences that:
1. provide students majoring in chemistry with high-quality preparation that is equally well suited for either successful professional practice in chemistry, or admission to graduate/professional school;
2. provide students majoring in other areas that specifically in the major. If students do not satisfy the following standards, they will be dismissed from the chemistry program.

General Requirements, Bachelor of Science Degrees
Total for graduation……………………………120 credits
General education……………………………21-30 credits
Major requirements…………………………..38-68 credits

Admission
For admission to the chemistry program, students must either declare chemistry as their major at initial registration, or else submit a change of major form to the Registrar’s Office.

Academic Standards
Once admitted to the chemistry program, students must maintain a satisfactory level of academic performance in order to continue
require chemistry as part of their curricula with a broad-based knowledge of chemistry, meeting the needs of their majors;
3. provide general education students with both a broad-based introduction to chemistry, as well as insight into the nature and limitations of scientific inquiry and knowledge.

**Expected Student Outcomes**

By the time they graduate, UW-Platteville chemistry majors should:
1. be scientifically literate and possess a broad-based knowledge of chemical principles and techniques,
2. be able to solve problems through creative and analytical thinking,
3. be effective communicators,
4. be intellectually curious and value lifelong learning,
5. value and appreciate the importance of professional ethics,
6. be able to work independently as well as cooperatively.

Non-chemistry science or engineering majors who complete their appropriate sequence of chemistry coursework should be able to apply their knowledge of chemistry to their own majors.
Non-science majors who take a chemistry course in satisfaction of their general-education requirements should discover the patterns, principles, and dynamics that find expression in empirical science; assess the character, possibilities, and limitations of the scientific method; and engage directly in the observation and study of natural phenomena.

Chemistry Major, Standard (38 credits)
The chemistry major is designed to equip graduates with the skills, knowledge, and attitudes that are necessary to secure meaningful employment in a private-sector or government laboratory, or teach at the secondary-school level, or gain admission to a graduate or professional program.

Required Chemistry Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 1140</td>
<td>General Chemistry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1240</td>
<td>General Chemistry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 2150</td>
<td>Quantitative Analysis</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 2730</td>
<td>Inorganic Chemistry*</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3540</td>
<td>Organic Chemistry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3510</td>
<td>Organic Chemistry Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3630</td>
<td>Organic Chemistry II</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3610</td>
<td>Organic Chemistry II Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4130</td>
<td>Physical Chemistry I</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4110</td>
<td>Physical Chemistry I Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4240</td>
<td>Instrumental Analysis</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4630</td>
<td>Biochemistry</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4060</td>
<td>Seminar</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4000</td>
<td>General Chemistry Lab</td>
<td>1-8 cr</td>
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</tbody>
</table>

* not required for the criminalistics emphasis-DNA track major

Required Supporting Courses from Math and Physics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 1350</td>
<td>Introductory Physics I</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS 1450</td>
<td>Introductory Physics II</td>
<td>5 cr</td>
</tr>
</tbody>
</table>

Students interested in securing secondary-education certification should add GEOGRPHY 3330 Environmental Conservation to the 38-credit standard chemistry requirements.

Students who expect to enter a graduate program in chemistry are advised to choose one of the ACS-approved majors described below.

Chemistry Major – ACS Approved (46 credits)
The ACS major is recognized by the American Chemical Society and designed to give graduates a more rigorous training in chemistry. ACS majors are required to take MATH 2840, Calculus and Analytic Geometry III. The curriculum includes all courses required for a standard chemistry major, as well as:

Plus one additional two-credit course selected from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEMSTRY 3810</td>
<td>Chemical Synthesis and Characterization</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4210</td>
<td>Physical Chemistry II Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4230</td>
<td>Physical Chemistry II</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4000</td>
<td>Undergraduate Research</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

Chemistry Major, Biochemistry Emphasis – ACS Approved (55 credits)
The biochemistry emphasis is designed to provide the appropriate chemistry and biology background for students who plan to enter fields such as health care, agriculture, or biotechnology. Biochemistry majors are required to take BIOLOGY 1650, Unity of Life. The biochemistry emphasis includes all courses required for the standard chemistry major, as well as:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEMSTRY 4610</td>
<td>Biochemistry Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4830</td>
<td>Biochemistry Topics</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4910</td>
<td>Advanced Biochemistry Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3330</td>
<td>Genetics</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3620</td>
<td>Immunology</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Biology Electives (3-4 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 2040</td>
<td>Cell Biology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3530</td>
<td>Biotechnology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4040</td>
<td>Molecular Biology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Chemistry Major, Criminalistics Emphasis – ACS Track (66 credits) or DNA Track (68 credits)

Either of the criminalistics emphases will provide a chemistry major with sufficient background and training to qualify for criminalistic laboratory work.

All criminalistics majors are required to take these general education courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 1130</td>
<td>Introduction to Criminal Justice</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 1650</td>
<td>Unity of Life</td>
<td>5 cr</td>
</tr>
<tr>
<td>MATH 1830</td>
<td>Elementary Statistics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

as well as the following technical coursework:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORENSIC 1320</td>
<td>Introduction to Crime Scene Investigation</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 2420</td>
<td>Evidence Collection and Preservation</td>
<td>2 cr</td>
</tr>
<tr>
<td>FORENSIC 3140</td>
<td>Criminalistics</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3270</td>
<td>Forensic Chemistry</td>
<td>2 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4680</td>
<td>Criminalistics Internship</td>
<td>8 cr</td>
</tr>
</tbody>
</table>
Criminalistics students electing the ACS track must also complete all requirements for the ACS-approved chemistry major, while students electing the DNA track will instead complete the standard chemistry major, plus:

CHEMISTRY 4830 Biochemistry Topics 3 cr
CHEMISTRY 4610 Biochemistry Laboratory 1 cr
BIOLOGY 2040 Cell Biology 4 cr
BIOLOGY 3330 Genetics 3 cr
BIOLOGY 4040 Molecular Biology 4 cr

For both criminalistics tracks, the following are to be considered highly recommended electives: CRIMLJUS 3730 Women and the Law, CRIMLJUS 4030 Criminal Law, and CRIMLJUS 4330 Criminal Procedure and Evidence.

Chemistry Minor (24 credits)
The chemistry minor is designed to provide a broader background and chemistry perspective for students in other majors, including those preparing to teach middle-school or high-school science. The minor requires:

CHEMISTRY 1140 General Chemistry I 4 cr
CHEMISTRY 1240 General Chemistry II 4 cr

or

CHEMISTRY 1450 Chemistry for Engineers 5 cr
and 16-19 credits (to achieve 24 credits total) of chemistry courses higher than CHEMISTRY 2000, which must include four credits of chemistry laboratory experience.

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

www.uwplatt.edu/ce

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Samuel Owusu-Ababio, P.E.
Philip Parker, P.E.
Michael Penn, P.E. Lisa
A. Riedle, P.E. Matthew
Roberts, P.E. Robert
Schmitt, P.E. Michael
Thompson, P.E.

Associate Professors:
Kristina Fields

Assistant Professors:
Gretchen Bohnhoff
Ahmed Faheem
Austin Polebitski

Lecturer:
Gerald Mahun, R.L.S.

Academic Department Associate:
Diane Hardyman

Civil Engineering

www.uwplatt.edu/ce

Contact: Christina Curras
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Phone: 608.342.1544
E-mail: currasc@uwplatt.edu

University of Wisconsin Platteville’s Civil Engineering program is accredited under the General Criteria by the Engineering Accreditation Commission of ABET, http://www.abet.org.

The UW-Platteville Civil Engineering Program gives students a broad background in all areas of civil engineering, while permitting specialization in the senior year. Practical applications are emphasized with sufficient theory so that the individual can grow with the future as new materials, methods and designs develop. The program has outstanding laboratory and computer facilities where all students gain valuable hands-on practical experience. The use of computers and state-of-the-art practice equipment are integrated throughout the curriculum from freshman environmental engineering.

Majors

Civil Engineering

• Construction Engineering Emphasis
• Geotechnical Engineering Emphasis
• Environmental Engineering Emphasis
• Structural Engineering Emphasis
• Transportation Engineering Emphasis
• Municipal Engineering Emphasis

Environmental Engineering

About the Department and Majors

The UW-Platteville Department of Civil and Environmental Engineering offers two bachelor of science degrees: civil engineering and environmental engineering. The civil engineering degree requirements include completion of one emphasis area: construction, environmental, municipal, structural, geotechnical or transportation. The environmental engineering degree requirements provide a background in all of the major areas of environmental science degrees: civil engineering and environmental engineering. The civil engineering degree requirements include completion of one emphasis area: construction, environmental, municipal, structural, geotechnical or transportation. The environmental engineering degree requirements provide a background in all of the major areas of environmental science.
through senior year to collect information, analyze data and develop plans for projects.

Civil engineers plan, design and supervise the infrastructure of civil society. The infrastructure includes highways that connect our nation's cities, airports that serve travelers, bridges that span our rivers and harbors, dams and levees that control floods and supply water for cities, and wastewater treatment plants that protect the environment. Civil engineers also work with architects to design and supervise construction of buildings. The civil engineering design process begins with the accumulation and analysis of basic information about a project. This information may include the topography and geology for a highway; flood history of a river that must be bridged or dammed; population growth projections and water usage; laboratory analysis of construction materials; or pollution surveys of air, land and water. Using this information, civil engineers apply their knowledge of science and engineering design to meet a project's requirements, assuring its successful completion.
Civil Engineering Degree Program
Vision, Objectives and Outcomes

Vision
The vision of the UW-Platteville Civil Engineering Program is to provide the education and training to create citizen engineers who will be leaders in the civil and environmental engineering profession and in their communities.

Citizen engineers are:
• Able to address technical and non-technical issues
• Attuned to the needs of their community and nation
• Able and willing to engage in public policy
• Appreciative of sustainability
• Ethical
• Innovative, but aware of risk
• Lifelong learners

Program Objectives
In order to achieve the vision of the UW-Platteville Civil Engineering Program, graduates of the program will:
1. Effectively and accurately communicate with technical and non-technical audiences
2. Successfully apply technical knowledge to solve engineering problems to satisfy client, industry and governmental requirements
3. Have the ability to evaluate projects from a holistic perspective including some or all of the following: sustainability, environmental impacts, ethics, aesthetics, politics, historical perspectives, social impacts, technical needs and costs
4. Make significant and innovative contributions in their professional endeavors
5. Become registered professional engineers

The realization of these objectives is expected to occur within five years of graduation. In order to ensure that graduates are adequately prepared to meet these objectives, the civil and environmental engineering department program outcomes define the competencies that students are expected to demonstrate at graduation.

Program Outcomes
The following program outcomes are designed to produce graduates who will meet the program objectives:
1. an ability to apply knowledge of mathematics, science, and engineering
2. an ability to design and conduct experiments, as well as to analyze and interpret data
3. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
4. an ability to function on multidisciplinary teams
5. an ability to identify, formulate, and solve engineering problems
6. an understanding of professional and ethical responsibility
7. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
8. a recognition of the need for, and an ability to engage in life-long learning
9. a knowledge of contemporary issues
10. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Academic Standards
Course repeat policy: Required GENENG and CIVILENG courses may be repeated only once.

Dismissal from civil engineering: In addition to all university and College of EMS policies, if a grade of “D” or “F” is earned in the second attempt of a CIVILENG course, the student will be dismissed from the College of EMS and the UW-Platteville Civil Engineering Program.

Re-admittance policy: To gain re-admittance to the Civil Engineering Program, students must submit, within in one week of grades being posted, a letter of appeal to the Civil and Environmental Engineering Matriculation and Appeals Committee.

Program requirements: A grade of “C-“ or higher must be earned in all courses that are prerequisite courses for other CIVILENG courses. All 3000-level CIVILENG courses must be satisfactorily completed prior to enrolling in CIVILENG 4930 Civil Engineering Design Project.

General Requirements
Bachelor of Science Degree
Total for graduation........................................133 credits
Major studies..................................................102 credits

Civil Engineering Major (102 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 3630</td>
<td>Differential Equations I</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>Statistical Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1450</td>
<td>Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS 2240</td>
<td>General Physics I</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 2340</td>
<td>General Physics II</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOLOGY 3130</td>
<td>Engineering Geology</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1030</td>
<td>Introduction to Engineering Projects</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1320</td>
<td>Engineering Computer Graphics</td>
<td>2 cr</td>
</tr>
<tr>
<td>GENENG 2820</td>
<td>Engineering Economy</td>
<td>2 cr</td>
</tr>
<tr>
<td>CIVILENG 2630</td>
<td>Elements of Surveying</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2130</td>
<td>Engineering Mechanics - Statics</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2220</td>
<td>Engineering Mechanics - Dynamics</td>
<td>2 cr</td>
</tr>
<tr>
<td>GENENG 2340</td>
<td>Mechanics of Materials</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG 2630</td>
<td>Basic Thermoscience for Engineers</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2930</td>
<td>Applications of Electrical Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 2000</td>
<td>Introduction to Infrastructure</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 2220</td>
<td>Civil Engr Computer Applications</td>
<td>2 cr</td>
</tr>
<tr>
<td>CIVILENG 3020</td>
<td>Construction Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3030</td>
<td>Construction Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3110</td>
<td>Introduction to Structural Engr</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3160</td>
<td>Intermediate Structural Engr</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3300</td>
<td>Fluid Mechanics</td>
<td>4 cr</td>
</tr>
<tr>
<td>CIVILENG 3340</td>
<td>Environmental Engineering</td>
<td>4 cr</td>
</tr>
</tbody>
</table>
Civil Engineering Technical Electives
All students must complete one of the following emphasis areas with a minimum of 14 credits:

**Construction Engineering**
- CIVILENG 3530 Transportation Engineering 3 cr
- CIVILENG 3740 Geotechnical Engineering I 4 cr
- CIVILENG 4930 Design Project 3 cr

**Geotechnical Engineering**
- CIVILENG 4160 Foundation Design 3 cr
- CIVILENG 4730 Geotechnical Engineering II 3 cr
- CIVILENG #### Any 4000-level CIVILENG class 6 cr

**Environmental Engineering**
- CIVILENG 4410 Wastewater and Drinking Water Treatment (required) 3 cr

And at least two courses from:
- CIVILENG 4300 Hydrology 3 cr
- CIVILENG 4310 Ground Water Hydrology 3 cr
- CIVILENG 4330 Solid and Hazardous Waste 3 cr
- CIVILENG 4400 Municipal Hydraulics 3 cr
- CIVILENG 4420 Water Supply and Treatment 3 cr
- CIVILENG #### Any 4000-level CIVILENG class 5 cr

**Structural Engineering**
- CIVILENG 4250 Wood Structures 3 cr
- CIVILENG 4160 Foundation Design 3 cr
- CIVILENG 4230 Steel Design 3 cr
- CIVILENG #### Any 4000-level CIVILENG class 5 cr

**Transportation Engineering**
Any three courses from:
- CIVILENG 4300 Hydrology 3 cr
- CIVILENG 4500 Highway Engineering 3 cr
- CIVILENG 4520 Pavement Design 3 cr
- CIVILENG 4550 Traffic Engineering 3 cr
- CIVILENG 4560 Pavement Maintenance and Rehabilitation 2 cr

and
- CIVILENG #### Any 4000-level CIVILENG class 5-6 cr

**Municipal Engineering**
- CIVILENG 4300 Hydrology 3 cr
- CIVILENG 4400 Municipal Hydraulics 3 cr
- CIVILENG 4500 Highway Engineering 3 cr

or
- CIVILENG 4550 Traffic Engineering 3 cr
- CIVILENG 4520 Pavement Design 3 cr

or
- CIVILENG 4560 Pavement Maintenance and Rehab 2 cr
- CIVILENG #### Any 4000-level CIVILENG class 2-3 cr
Environmental Engineering Degree
Program Vision, Objectives and Outcomes

Vision
The vision of the UW-Platteville Environmental Engineering Program is to provide the education and training to create citizen engineers who will be leaders in the civil and environmental engineering profession and in their communities.

Citizen engineers are:
• Able to address technical and non-technical issues
• Attuned to the needs of their community and nation
• Able and willing to engage in public policy
• Appreciative of sustainability
• Ethical
• Innovative, but aware of risk
• Lifelong learners

Program Objectives
In order to achieve the vision of the UW-Platteville Environmental Engineering Program, graduates of the program will:
1. Effectively and accurately communicate with technical and non-technical audiences
2. Successfully apply technical knowledge to solve engineering problems to satisfy client, industry and governmental requirements
3. Have the ability to evaluate projects from a holistic perspective including some or all of the following: sustainability, environmental impacts, ethics, aesthetics, politics, historical perspectives, social impacts, technical needs and costs
4. Make significant and innovative contributions in their professional endeavors
5. Become registered professional engineers

The realization of these objectives is expected to occur within five years of graduation. In order to ensure that graduates are adequately prepared to meet these objectives, the UW-Platteville Environmental Engineering Department program outcomes define the competencies that students are expected to demonstrate at graduation.

Program Outcomes
The following program outcomes are designed to produce graduates who will meet the program objectives:
1. Our graduates are technically skilled in math and science. They skillfully apply math and science to solve engineering problems.
2. Our graduates are technically skilled in environmental engineering. They can solve environmental engineering problems in air, land, and water systems and associated environmental health impacts. Such engineering problems involve design, experimentation and data analysis. To solve the problems, graduates use the techniques, skills and tools of modern engineering practice.
3. Our graduates are innovative. They are able to design environmental engineering experiments. To continue to be innovative, they must be able to learn and apply new information.
4. Our graduates conduct themselves in a manner becoming of a professional engineer. They are able to determine a professional and ethical course of action, and can function effectively on multidisciplinary teams.
5. Our graduates are skillful communicators. They effectively express their ideas to a variety of audiences orally and in writing.
6. Our graduates are broadly educated. They are aware of contemporary issues and are ready to practice engineering with an awareness of global and societal contexts. Furthermore, they are able to explain how basic concepts in management, business, public policy and leadership affect their engineering solutions.

Academic Standards
Course repeat policy: Required GENENG and CIVILENG courses may be repeated once.

Dismissal from environmental engineering: In addition to all university and College of EMS policies, if a grade of “D” or “F” is earned in the second attempt of a CIVILENG course, the student will be dismissed from the College of EMS and the UW-Platteville Environmental Engineering Program.

Re-admittance policy: To gain re-admittance to the UW-Platteville Environmental Engineering Program, students must submit, within in one week of grades being posted, a letter of appeal to the Civil and Environmental Engineering Matriculation and Appeals Committee.

Program requirements: A grade of “C-” or higher must be earned in all courses that are prerequisite courses for other CIVILENG courses.

General Requirements
Bachelor of Science Degree
Total for graduation ........................................132 credits
Major studies.................................................101 credits

Environmental Engineering Major
(101 credits)

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>MATH 2640 Calculus and Analytic Geometry I</td>
<td>4 cr</td>
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<td>MATH 2740 Calculus and Analytic Geometry II</td>
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<td>4 cr</td>
</tr>
<tr>
<td>MATH 3630 Differential Equations</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4030 Statistical Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1450 Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3130 Environmental Chemistry</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3110 Environmental Chemistry Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>BIOLOGY 3240 Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 2240 General Physics I</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOLOGY 3130 Engineering Geology</td>
<td>3 cr</td>
</tr>
<tr>
<td>or GEOGRPHY 1140 Physical Geology: Geomorphology</td>
<td>3 cr</td>
</tr>
<tr>
<td>or GEOGRPHY 3550 Process Geomorphology</td>
<td>3 cr</td>
</tr>
<tr>
<td>or SCSCI 2230 Soils</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG 1000 Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1030 Introduction to Engineering Projects</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1320 Engineering Computer Graphics</td>
<td>2 cr</td>
</tr>
<tr>
<td>GENENG 2820 Engineering Economy</td>
<td>2 cr</td>
</tr>
<tr>
<td>CIVILENG 2630 Elements of Surveying</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
### Engineering Mechanics - Statics
- **GENENG 2130**  
  Engineering Mechanics - Statics  
  3 cr

### Mechanics of Materials
- **GENENG 2340**  
  Mechanics of Materials  
  4 cr

### Electives (6 credits): Recommended Electives:
- **CIVILENG 4630**  
  Geographic Information Systems  
  3 cr
- **CIVILENG 4640**  
  Site Design and Stormwater Management  
  3 cr

### Other Electives:
- **BIOLOGY 3750**  
  Freshwater Biology  
  3 cr
- **CIVILENG 3020**  
  Construction Engineering  
  3 cr
- **GENENG 2630**  
  Basic Thermoscience for Engineers  
  3 cr
- **RECLAM 3880**  
  Environmental Law  
  3 cr

### DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING

www.uwplatt.edu/csse

**Department Chair:** Joseph Clifton  
**Office:** 208 Ullrich Hall  
**Phone:** 608.342.1625  
**E-mail:** clifton@uwplatt.edu

**Academic Department Associate:** Mary Jo Stutenberg

### Majors

**Computer Science**
- Computer Technology Emphasis
- Computer Information Systems Emphasis

**Software Engineering**
- Digital Application Domain Sequence
- Engineering Management Application Domain Sequence

### Minors

**Computer Science**

### About the Department and Majors

The UW-Platteville Department of Computer Science and Software Engineering offers two majors: one in computer science and one in software engineering. Students may also earn a minor in computer science from this department. Computer science is concerned with the theory and practice involved in the feasibility, design, implementation and evaluation of every aspect of computing. In addition to the valuable practical skills acquired in the study of computer science, the concepts and theories in the field provide exposure to some of the most imaginative and challenging ideas in the history of human intellectual development. The program is committed to blending the theory of computer science with the arts of programming and analysis, while providing attention to the business, ethical and moral aspects of computing in our society. Graduates are prepared for such positions as systems and applications programmers, analysts and various computer specialist positions.
Computer Science Mission Statement
The mission of the computer science program is to provide a quality computer science education with significant hands-on and laboratory experience that will enable our graduates to practice their profession with proficiency and integrity.

Computer Science Goals
Graduates are expected to have:
1. the ability to apply the principles of analysis and design to software development
2. knowledge of data structures, databases, algorithms, computer architecture and operating systems
3. the ability to develop effective software tests at the unit and system level
4. knowledge about the tools and environments used for software development
5. written and oral communication skills, ethics and professionalism to function effectively on software development teams, and in society in general
6. the ability to engage in lifelong learning and recognize its importance
Computer Science Outcomes

1. Foundation: Graduates will have a solid foundation in computer science. These graduates will be able to apply this fundamental knowledge to both their immediate professional software development tasks, as well as to acquiring new professional skills throughout their lifetime.
2. Development: Graduates will be able to engage in effective software development practices over the entire system life cycle. This includes requirements, analysis, design, implementation and testing.
3. Professionalism: Graduates will conduct themselves ethically, honestly and professionally in all work environment activities. These activities include all interactions with employers, team members and peers, as well as customers.
4. Quality: Graduates will use industry recognized best practices to design, develop and deliver software that meets or exceeds applicable standards for utility, reliability, robustness, performance, correctness, maintainability, reusability, portability and economy.
5. Presentation: Graduates will be capable of effective written and oral communication. Graduates will be capable of preparing and publishing the necessary project documents involved in the specification, design, testing and deployment of software. Graduates will also be capable of actively participating in customary project discussions, walkthroughs, reviews and inspections.
6. Growth: Graduates will be able to provide themselves with lifelong learning capabilities, such as the ability to learn new tools, study new language processes and generally adapt to new surroundings throughout their careers. This outcome is particularly critical due to the rapid evolution and obsolescence of computer science knowledge and practices.

Computer Science Major
The computer science major leads to a Bachelor of Arts or Bachelor of Science degree in two emphases: computer information systems and computer technology. The department offers a general minor. In addition, selected course sequences form emphases in computer science for a variety of other majors in the university.

Bachelor of Science Degree

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total for graduation</td>
<td>120</td>
</tr>
<tr>
<td>General education</td>
<td>43-57</td>
</tr>
<tr>
<td>Major</td>
<td>67-72</td>
</tr>
</tbody>
</table>

Bachelor of Arts Degree

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Total for graduation</td>
<td>120</td>
</tr>
<tr>
<td>General education</td>
<td>43-57</td>
</tr>
<tr>
<td>(includes an additional nine credits in upper division coursework in humanities, fine arts or social sciences)</td>
<td></td>
</tr>
<tr>
<td>Major</td>
<td>67-72</td>
</tr>
</tbody>
</table>

Students completing a Bachelor of Arts degree in computer science must complete an additional nine credits of upper-division coursework from humanities, fine arts or social sciences in addition to the coursework specified for their chosen emphasis and university requirements.

Students completing a Bachelor of Science degree in computer science need only to complete the coursework specified for their chosen emphasis and university requirements. All computer science majors must complete at least 37 credits in computer science (not including COMPUTER 1130 or 1830) and the requirements in one of the emphasis areas of computer information systems or computer technology.

Academic Standards:
All computer science majors must earn at least a “C-” in each computer science or software engineering course listed as a requirement in the emphasis selected and each computer science course listed in the core requirements. Students must have a G.P.A. of 2.00 or higher in all Computer Science and Software Engineering courses.

Major Core Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 1430 Programming in C++</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 2430 Object Oriented Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3630 Database Design and Implementation</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3830 Data Communications and Computer Networks</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3840 Intro to Computer Security</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 4110 Seminar</td>
<td>1 cr</td>
</tr>
<tr>
<td>ECONOMIC 2130 Principles of Microeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC 2230 Principles of Microeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3000 Technical Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2330 Leadership and Management</td>
<td>3 cr</td>
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</tbody>
</table>

Computer Technology Emphasis

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>COMPUTER 2630 Object Oriented Programming Data Structures II</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3230 Computer Architecture/ Operating Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 3430 Object Oriented Analysis and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3520 Programming Language Structures</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 2640 Calculus and Analytical Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2730 Discrete Mathematics</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 2730 Introduction to Software Engineering</td>
<td>3 cr</td>
</tr>
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</table>

Electives (9 credits):

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 3000- level and up*</td>
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<tr>
<td>SOFTWARE 3330 Intermediate Software Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 3730 Software Quality</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 3860 Software Maintenance and Reengineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 4130 Real-Time Embedded Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 4330 Software Engineering Project I</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 4730 Software Engineering Project II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ELECTENG 3770 Logic and Digital Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>ELECTENG 3780 Introduction to Microprocessors</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

*COMPUTER 4830, COMPUTER 4930 and COMPUTER 4990 can be counted only with the consent of the department.
**Application Domain Electives (12 credits):**
Select 12 credits in a discipline other than computer science with at least three credits at the 3000 level or higher. At most, two courses can be below the 2000 level. If software engineering or electrical engineering is chosen, the selected courses cannot also be selected as technical electives. If software engineering is chosen, SOFTWARE 2730 and SOFTWARE 3430 cannot be counted. If mathematics is chosen, the courses must be from courses MATH 2640 and higher. If English is chosen, ENGLISH 1130 and ENGLISH 1230 cannot be counted. The economics, English, mathematics and business courses listed as required courses can count towards the 12 credits of domain electives.

**Computer Information Systems Emphasis**

**Required Courses (36 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER</td>
<td>2230    Programming in COBOL</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>2340    Programming in VB.NET</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>3130    Systems Analysis and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>3530    Systems Develop and Implementation</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>4230    Applications in Information Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>2010    Financial Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>2020    Management Accounting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>1300    Global Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>2630    Introduction to Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>BUSADMIN</td>
<td>3620    Financial Management</td>
</tr>
<tr>
<td>or</td>
<td>MATH</td>
<td>1630    Finite Mathematics with Applications</td>
</tr>
<tr>
<td>or</td>
<td>MATH</td>
<td>2730    Discrete Mathematics</td>
</tr>
<tr>
<td>or</td>
<td>ECONOMIC</td>
<td>2410    Interpretation of Business and Economic Data</td>
</tr>
</tbody>
</table>

**Electives (6 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER</td>
<td>2630    Object Oriented Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>3230    Computer Architecture/ Operating Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>3340    Windows Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>3870    Web Protocols, Technologies and Applications</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Minor in Computer Science (24 credits)**

The minor provides sufficient flexibility to complement any major field of study. All required courses must be passed with a "C-" or better with a minimum cumulative G.P.A. of 2.00 in the courses. We suggest that students consult with a computer science advisor to plan a minor program.

**Required Courses (9-10 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER</td>
<td>1430    Programming in C++</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>2430    Object Oriented Programming I</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>3540    Systems Develop and Implementation</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Electives (15 credits):**

Electives for the minor may be selected from any courses in computer science, software engineering or Electrical Engineering.
Software Engineering
www.uwplatt.edu/csse/

Coordinator: Joe Clifton
Office: 208 Ullrich Hall
Phone: 608.342.1558
E-mail: clifton@uwplatt.edu

Professors:
Joe Clifton

Assistant Professors:
Yan Shi
Kun Tian
Omar Meqdadi

University of Wisconsin Platteville’s Software Engineering program is accredited under the General Criteria by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Software Engineering Mission Statement
The mission of the software engineering program is to provide a quality software engineering education with significant hands-on and laboratory experience that will enable graduates to practice their profession with proficiency and integrity.

Software Engineering Objectives
1. Graduates are effective team members, aware of cultural diversity, who conduct themselves ethically and professionally
2. Graduates use effective communication skills to assure production of quality software, on time and within budget
3. Graduates build upon and adapt knowledge of science, mathematics and engineering to take on more expansive tasks that require an increased level of self-reliance, technical expertise and leadership

Software Engineering Outcomes
The following are the software engineering outcomes expected of the graduates of this program:
1. Foundation: Graduates shall have a strong foundation in science, mathematics and engineering, and can apply this fundamental knowledge to software engineering tasks.
2. Development: Graduates can effectively apply software engineering practice over the entire system life cycle. This includes requirements engineering, analysis, prototyping, design, implementation, testing, maintenance activities and management of risks involved in software and embedded systems.
3. Process: Graduates know classical and evolving software engineering methods, can select and tailor appropriate methods for projects, and can apply them as both team members and managers to achieve project goals.
4. Professionalism: Graduates are knowledgeable of the ethics, professionalism and cultural diversity in the work environment.
5. Quality: Graduates can apply basic software quality assurance practices to ensure that software design, development and maintenance meets or exceeds applicable standards.
6. Presentation: Graduates have effective written and oral communication skills. Graduates can prepare and publish the necessary documents required throughout the project life cycle. Graduates can effectively contribute to project discussions, presentations and reviews.
7. Growth: Graduates understand the need for lifelong learning and can readily adapt to new software engineering environments.

Academic Standards:
Software engineering majors must earn a “C-” or better in all required software engineering and computer science courses. Software engineering majors must earn a “D” or better in all corequisites unless otherwise stipulated by the offering department. For example, a “C-” or better is required in PHYSICS 2240 in order to proceed to PHYSICS 2340. However, a “D” in PHYSICS 2340 would satisfy the software engineering requirement for that course. Likewise, a “D” would satisfy the software engineering requirement for computer science courses for which there is an option: COMPUTER 3030, COMPUTER 3630 and COMPUTER 3920. A software engineering major may repeat any given engineering course only one time. Students must have a G.P.A. of 2.00 or higher in all software engineering and computer science courses.

To complete the general engineering requirements and enter software engineering, each student must complete the following seven core courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 1130</td>
<td>Freshman Composition</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1030</td>
<td>Introduction to Engineering Projects</td>
<td>1 cr</td>
</tr>
<tr>
<td>COMPUTER 1430</td>
<td>Programming in C++</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2730</td>
<td>Discrete Mathematics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Students who complete their core courses must earn a 2.30 G.P.A. in those core courses to gain entry into the software engineering program.

General Requirements
Bachelor of Science Degree
Total for graduation......................... 127-130 credits
Major............................................. 102-105 credits

Software Engineering Major
(102-105 credits)

Mathematics (21 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2730</td>
<td>Discrete Mathematics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>Statistical Methods with Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3230</td>
<td>Linear Algebra</td>
<td>3 cr</td>
</tr>
<tr>
<td>or MATH 3630</td>
<td>Differential Equations I</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Basic Sciences (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 2240</td>
<td>General Physics I</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 2340</td>
<td>General Physics II</td>
<td>4 cr</td>
</tr>
<tr>
<td>Non-physics course</td>
<td></td>
<td>4 cr</td>
</tr>
</tbody>
</table>
### Software Engineering Required Courses (25 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOFTWARE 2730</td>
<td>Introduction to Software Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 3330</td>
<td>Intermediate Software Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 3430</td>
<td>Object-Oriented Analysis and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 3730</td>
<td>Software Quality</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 3860</td>
<td>Software Maintenance and Reengineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 4110</td>
<td>Software Engineering Seminar</td>
<td>1 cr</td>
</tr>
<tr>
<td>SOFTWARE 4130</td>
<td>Real-time Embedded Systems Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 4330</td>
<td>Software Engineering Project I</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 4730</td>
<td>Software Engineering Project II</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

### Computer Science Required Courses (24-25 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 1430</td>
<td>Programming in C++</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 2430</td>
<td>Object-Oriented Programming and Data Structures I</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 2630</td>
<td>Object-Oriented Programming and Data Structures II</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3230</td>
<td>Computer Architecture and Operating Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3520</td>
<td>Programming Language Structures</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3830</td>
<td>Data Communication and Computer Networks</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3840</td>
<td>Intro to Computer Security</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3030</td>
<td>Artificial Intelligence</td>
<td>3 cr</td>
</tr>
<tr>
<td>or COMPUTER 3630</td>
<td>Database Design and Implementation</td>
<td>3 cr</td>
</tr>
<tr>
<td>or COMPUTER 3920</td>
<td>Computer Graphics</td>
<td>3 cr</td>
</tr>
<tr>
<td>or ELECTENG 4720</td>
<td>Microprocessor Architecture and Interfacing</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

### Other Required Courses (11 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENENG 1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1030</td>
<td>Introduction to Engineering Projects</td>
<td>1 cr</td>
</tr>
<tr>
<td>BUSADMIN 2330</td>
<td>Organization and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC 2130</td>
<td>Principles of Macroeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>or ECONOMIC 2230</td>
<td>Principles of Microeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>or PHLSPHY 2540</td>
<td>Science, Technology and Ethics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

### Application Domain Sequence (9-12 credits)

Select one application domain sequence from:

#### Digital (9 credits)

- ELECTENG 1020 Electrical Engineering Projects and Tools 1 cr
- ELECTENG 3770 Logic and Digital Design 4 cr
- ELECTENG 3780 Introduction to Microprocessors 4 cr

#### Engineering Management (12 credits)**

- INDSTENG 3430 Human Factors Engineering 3 cr
- INDSTENG 4430 Quality Engineering 3 cr
- or INDSTENG 4540 Human Performance & System Design 3 cr
- or INDSTENG 4730 Engineering Management 3 cr
- or INDSTENG 4730 Project Management 3 cr

** Assumes BIOLOGY 2340 is taken as the natural science elective prior to taking INDSTENG 3430 and MATH 4030 is scheduled early in the curriculum sequence if INDSTENG 4430 is chosen.
Educational Mission, Goals and Expected Student Learning Outcomes

Mission statement: The mission of the UW-Platteville Electrical Engineering Department is to provide a quality electrical engineering education with extensive hands-on and laboratory experience that will enable our graduates to practice their profession with proficiency and integrity.

Program Educational Objectives:

1. advance in their profession to positions of increased responsibility, and be technically competent and productive members of their profession
2. keep informed of developments in their fields of expertise, acquire and apply new knowledge and skills, and be aware of emerging technologies
3. interact professionally and ethically with their employers and coworkers, communicate effectively, and be responsible and beneficial members of their local and global communities

The electrical engineering program at UW-Platteville has the following student educational outcomes:

A) an ability to apply knowledge of mathematics, science, and engineering
B) an ability to design and conduct experiments, as well as to analyze and interpret data
C) an ability to design a system, component, or a process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
D) an ability to function on multidisciplinary teams
E) an ability to identify, formulate, and solve engineering problems
F) an understanding of professional and ethical responsibility
G) an ability to communicate effectively (3g1 orally, 3g2 written)
H) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
I) a recognition of the need for, and an ability to engage in lifelong learning
J) a knowledge of contemporary issues
K) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Academic Standards:

All required electrical engineering courses must be completed with a grade of "C-" or better: 1020, 1210, 2210, 2220, 3020, 3140, 3210, 3320, and 3770.

Students must receive a “C-” or better in these courses when used as prerequisites for electrical engineering courses: Calculus I, II and III, Differential Equations and Physics II.
Students may get a “D” in ELECTENG 3130, 3410, 3780, 4610, PHYSICS 3140 and COMPUTER 1430 as a graduation requirement, BUT, if used as a prerequisite or corequisite of an electrical engineering course, must be completed with a C- or better. A “D” is allowed in any other 4000-level course in electrical engineering.

Students must also have an average G.P.A. of 2.00 or higher in electrical engineering courses.

**General Requirements**

**Bachelor of Science Degree**

Total for graduation..................131 credits

Major studies..........................103 credits

**Electrical Engineering Major**

(103 credits)

**Mathematics Courses (15 credits):**

MATH 2640 Calculus and Analytic Geometry I 4 cr
MATH 2740 Calculus and Analytic Geometry II 4 cr
MATH 2840 Calculus and Analytic Geometry III 4 cr
MATH 3630 Differential Equations I 3 cr

**Basic Sciences Courses (17 credits):**

CHEMSTRY 1450 Chemistry for Engineers 5 cr
PHYSICS 2240 General Physics I 4 cr
PHYSICS 2340 General Physics II 4 cr
PHYSICS 3140 Modern Physics 4 cr

**Other Courses (10 credits):**

GENENG 1000 Engineering Success Skills 1 cr
GENENG 1030 Introduction to Engineering Projects 1 cr
GENENG 2820 Engineering Economy 2 cr
COMPUTER 1430 Programming in C++ 3 cr
PHILSPHY 2540 Science, Technology and Ethics 3 cr

**Engineering Science Electives (6 credits):**

GENENG 2130 Engineering Mechanics-Statics 3 cr
GENENG 2220 Engineering Mechanics-Dynamics 2 cr
GENENG 2230 Engineering Mechanics-Dynamics 3 cr
GENENG 2340 Mechanics of Materials 4 cr
GENENG 2630 Basic Thermoscientific for Engineers 3 cr
MECHNCHL 2630 Thermodynamics 3 cr
MSNT 3940 Principles and Applications of Nanotechnology 3 cr

**Electrical Engineering Required Courses (31 credits):**

ELECTENG 1020 Electrical Engineering Projects and Tools 1 cr
ELECTENG 1210 Circuit Modeling I 3 cr
ELECTENG 2210 Circuit Modeling II 4 cr
ELECTENG 2220 Signals and Systems 4 cr
ELECTENG 3020 Analog Electronics 4 cr
ELECTENG 3140 Electric and Magnetic Fields 4 cr
ELECTENG 3210 Engineering Computation 3 cr
ELECTENG 3320 Automatic Controls 4 cr
ELECTENG 3770 Logic and Digital Design 4 cr

**Electrical Engineering Professional Emphasis Electives (24 credits)**

Each student shall complete a total of 24 credits from the list below: (1) at least one emphasis, consisting of one of: ELECTENG 4040, ELECTENG 4050, ELECTENG 4350, ELECTENG 4450 or ELECTENG 4750, from the chosen emphasis and at least four more credits at the 4000 level from that emphasis area and (2) at least one more course from the above list outside of the chosen emphasis.

**Communications and Electronics Emphasis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 3130 Solid State Electronics Devices</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3780 Introduction to Microprocessors</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4010 UHF Amplifier Design</td>
<td>1 cr</td>
</tr>
<tr>
<td>ELECTENG 4020 UHF Oscillator Design</td>
<td>1 cr</td>
</tr>
<tr>
<td>ELECTENG 4040 Analog IC Design</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4050 Advanced Analog Electronic Circuits</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4430 Power Electronics and Electrical Machines</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4610 Communication Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4980 Current Topics in Electrical Engineering</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>ELECTENG 4990 Independent Study</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

**Computer Engineering Emphasis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 3130 Solid State Electronics Devices</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3780 Introduction to Microprocessors</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4720 Microcomputer Architecture and Interfacing</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4750 Advanced Digital Design</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4980 Current Topics in Electrical Engineering</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>ELECTENG 4990 Independent Study</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

**Controls Emphasis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 3410 Electric Power Engineering</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3780 Introduction to Microprocessors</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4310 Modern Control Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4320 Digital Signal Processing</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4350 Discrete Time Control Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4980 Current Topics in Electrical Engineering</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>ELECTENG 4990 Independent Study</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

**Power and Energy Emphasis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 3410 Electric Power Engineering</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3780 Introduction to Microprocessors</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4430 Power Electronics and Electrical Machines</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4440 Electric Motor Drives</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4450 Power Systems Analysis</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4980 Current Topics in Electrical Engineering</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>ELECTENG 4990 Independent Study</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>
Sustainable and Renewable Energy Program

www.uwplatt.edu/ee/RenewableEnergy/index.html or www.uwplatt.edu/sres

Contact: Tim Zauche
Office: 211 Otts
Phone: 608.342.1678
E-mail: zauchet@uwplatt.edu

The Sustainable & Renewable Energy (SRES) Council includes the following faculty and staff:
Chris Baxter (Agriculture)
Michael Dalecki (Sociology)
Ryan Del Balso (SRES)
Ela Kakde (SRES)
Mesut Muslu (Electrical Engineering)
Samir El-Omari (General Engineering)
Dino Ress (SRES and Chemistry)
Amy Seeboth (Campus Sustainability Director)
Chuck Steiner (Agriculture)
Scott Wright (Business and Accounting)
Tim Zauche (SRES, program coordinator, and Chemistry)

About the SRES Program and Major

The Sustainable and Renewable Energy Systems program is designed to provide students with strong foundational knowledge in renewable as well as traditional energy systems and their economic, social, political, and environmental impacts on society. The program provides the opportunity for UW-Platteville students to develop and deploy a comprehensive skills set in pursuit of solutions related to technical, economic, social, and environmental challenges related to energy, efficiency, and renewable resource management. Focal areas of study include core knowledge development in bioenergy, renewable products, operations, logistics and project management within associated markets under a framework of sustainable utilization of resources.

Graduates from this program will enter the workforce in a variety of roles with organizations such as utilities, energy producers, energy auditors, building design and construction firms, as well as federal, state, and local municipalities. We anticipate significant growth in this field over the next decade and beyond. Our graduates will utilize their training and pioneering spirit to lead the Midwest and the nation on a more sustainable path toward better and more efficient uses of energy.

Mission Statement

In consultation with the Renewable Energy Advisory Board (composed of industry professionals), broad program goals were identified and embedded into the program: a strong foundation in technical, economic, environmental and social aspects of traditional and renewable energy systems, including bio-energy and bio-products. Our goals are the following:

A. To equip students with abilities to assess the relative merits and potential impacts of different energy sources within the framework of sustainability
B. To equip students with a strong foundation in business and management aspects of renewable energy projects
C. To graduate students who are knowledgeable citizens prepared for the green jobs of the future
D. To support business and community partners through projects, seminars, and workshops

Student Learning Outcomes are:

A. The ability to evaluate the role of energy and renewable energy, its sources, limitations, and use patterns in society
B. Fundamental knowledge of economic aspects of energy, renewable energy, and other limited resources within the framework of sustainability
C. Fundamental knowledge to understand environmental aspects of energy, renewable energy, and other limited resources within the framework of sustainability
D. Fundamental knowledge to understand social aspects of energy, renewable energy, and other limited resources within the framework of sustainability
E. A basic understanding of science involved in energy conversion and applications
F. The ability to assess the relative merits and potential impacts of different energy sources within the framework of sustainability
G. The ability to evaluate how conservation and energy efficiency fit into managing efficient use of energy
H. An understanding of how multiple technologies and disciplines work together in SRES
I. Hands-on experience with energy and renewable energy technologies
J. An understanding of the business and project management aspects of energy and renewable energy projects
K. The ability to communicate with people of diverse backgrounds both written and orally

Bachelor of Science Degree

Total for graduation .......................... 120 credits
General Education .............................. 22 credits
Major Studies ................................. 57 credits
Emphasis ....................................... 40-57 credits
SRES Major (57 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOMICS</td>
<td>2130</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>ECONOMICS</td>
<td>2230</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>PHILSPHY</td>
<td>2540</td>
<td>Science, Technology, and Ethics</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3340</td>
<td>Management, Gender, and Race</td>
</tr>
<tr>
<td>ACCTING</td>
<td>2010</td>
<td>Financial Acct</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3000</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>AGINDUS</td>
<td>1500</td>
<td>Introduction to Agribusiness</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>2330</td>
<td>Leadership &amp; Management</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>3330</td>
<td>Environmental Conservation</td>
</tr>
<tr>
<td>ENERGY</td>
<td>2130</td>
<td>Energy, Environment &amp; Society</td>
</tr>
<tr>
<td>ENERGY</td>
<td>2340</td>
<td>Fundamentals of Energy Sources</td>
</tr>
<tr>
<td>ENERGY</td>
<td>3130</td>
<td>Sustainability I: Ecology, Population and Econ</td>
</tr>
<tr>
<td>ENERGY</td>
<td>3230</td>
<td>Biorenewable Resources</td>
</tr>
<tr>
<td>ENERGY</td>
<td>3330</td>
<td>Energy Conversion, Transmission and Storage</td>
</tr>
<tr>
<td>ENERGY</td>
<td>3430</td>
<td>Green Building Design I</td>
</tr>
<tr>
<td>ENERGY</td>
<td>3530</td>
<td>Project Management for Renewable Energy</td>
</tr>
<tr>
<td>ENERGY</td>
<td>3950</td>
<td>Renewable Energy Cooperative Education</td>
</tr>
<tr>
<td>ENERGY</td>
<td>3970</td>
<td>Coop or Internship</td>
</tr>
<tr>
<td>ENERGY</td>
<td>4620</td>
<td>Monitoring Control and Instrumentation Lab</td>
</tr>
<tr>
<td>ENERGY</td>
<td>4920</td>
<td>Research and Project Design</td>
</tr>
</tbody>
</table>

2 of the following courses as electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENERGY</td>
<td>4130</td>
<td>Sustainability Policy and Practice</td>
</tr>
<tr>
<td>ENERGY</td>
<td>4230</td>
<td>Biofuels</td>
</tr>
<tr>
<td>ENERGY</td>
<td>4330</td>
<td>Wind and Solar Energy Systems Design</td>
</tr>
<tr>
<td>ENERGY</td>
<td>4430</td>
<td>Advanced Topics in Building Design</td>
</tr>
</tbody>
</table>

For a specific emphasis a student will need to complete the following:

Development and Management Emphasis (40-48):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>1830</td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td>MATH</td>
<td>2630</td>
<td>Calculus with Applications</td>
</tr>
<tr>
<td>CHEM</td>
<td>1050</td>
<td>or CHEM 1140/1240</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>1050</td>
<td>or PHYSICS 1350/1450</td>
</tr>
<tr>
<td>ACCTING</td>
<td>2020</td>
<td>Management Accounting</td>
</tr>
<tr>
<td>AGINDUS</td>
<td>2430</td>
<td>or BUSADMIN 2630, Marketing</td>
</tr>
<tr>
<td>AGINDUS</td>
<td>3500</td>
<td>or BUSADMIN 3430, Risk Management</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3620</td>
<td>Financial Management</td>
</tr>
</tbody>
</table>

Concentration:
12 credits of 2000 level or higher from any degree granting program other than Business or Agribusiness. Instead of concentrations in Business or Agribusiness, a minor is required to satisfy this requirement.

Design and Analysis Emphasis (49 – 57):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>2640</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH</td>
<td>2740</td>
<td>Calc II</td>
</tr>
<tr>
<td>MATH</td>
<td>4030</td>
<td>Statistics</td>
</tr>
</tbody>
</table>

Renewable Energy Minor (24 credits)

The Minor strives to help UWP students develop an in-depth and interdisciplinary understanding of issues related to energy and renewable energy including bio-fuels and renewable products and associated markets.

The following courses are required:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENERGY</td>
<td>2130</td>
<td>Energy, Environment and Society</td>
</tr>
<tr>
<td>ENERGY</td>
<td>2340</td>
<td>Fundamentals of Energy Sources</td>
</tr>
<tr>
<td>ENERGY</td>
<td>4920</td>
<td>Research &amp; Project Design</td>
</tr>
</tbody>
</table>

For a current list of elective courses that count towards the minor, see the program’s web page.
CHEM 1050 or CHEM 1140/1240
DEPARTMENT OF ENGINEERING PHYSICS

Chair Contact: W. Doyle St. John
Office: 228 Engineering Hall
Phone: 608.342.1651
E-mail: stjohn@uwplatt.edu

Professors:
Harold T. (Hal) Evensen
Wei Li
W. Doyle St. John, P.E.
Philip W. Young

Associate Professors:
Yan Wu

Assistant Professors:
Gokul Gopalakrishnan
Andrew Pawl
Tomm Scaife

Lecturers:
Elizabeth Holden
Karland A. Kilian

Physics Laboratory Manager:
Duane Foust

Majors
Engineering Physics
Microsystems & Nanomaterials (B.S.)
Broad Field Science

Minors
Physics
Microsystems & Nanotechnology
Natural Science

About the Department, Majors, and Minors
The UW-Platteville Department of Engineering Physics offers majors in Engineering Physics, Microsystems and Nanomaterials (B.S.), and Broad Field Science, and minors in Physics, Microsystems and Nanotechnology and Natural Science.

Engineering Physics
Contact: W. Doyle St. John
Office: 228 Engineering Hall
Phone: 608.342.1481
E-mail: stjohn@uwplatt.edu

University of Wisconsin Platteville’s Engineering Physics program is accredited under the General Criteria by the Engineering Accreditation Commission of ABET, http://www.abet.org

The engineering physics program at UW-Platteville is a hybrid of applied physics, electrical engineering and mechanical engineering. The engineering physics curriculum provides students with a fundamental knowledge of physics and the application of physics to engineering problem solving, including design. It includes introductory courses in mechanical and electrical engineering, as well as a significant professional engineering concentration tailored to suit the individual’s particular interest. The program is designed to address the needs of students seeking innovative careers in high-tech fields, areas where multiple engineering disciplines merge (e.g., electro-mechanical industries), or non-traditional engineering disciplines (e.g., acoustics). The engineering physics program is also structured for those students who have an interest in the physical sciences as well as engineering. The majority of graduates of the engineering physics program have entered industry in such diverse areas as mechanical controls, digital and analog electronics, nuclear instrumentation, software development, manufacturing and medical devices. Others have chosen to specialize in our relatively new emphasis in Microsystems & Nanomaterials or attend graduate school. Former alumni have earned M.S. and Ph.D.’s in Physics, Material Science, Electrical or Mechanical Engineering, Electro-Optics, Acoustics, and Library Science.

Program Objectives
The engineering physics program provides engineering physics majors with a quality undergraduate education in liberal studies, mathematics, science and engineering to prepare them:
1) to, within a few years of graduation, have attained positions as professionals in industry, government, or academia;
2) to become responsible, accountable, current professionals who work well with those both within and outside their profession, and demonstrate leadership at some level

Program Outcomes
Graduates of the engineering physics program must fulfill the following program outcomes as part of their education in engineering physics:
1. Engineering physics graduates from UW-Platteville must have demonstrated:
   a. working knowledge of fundamental physics and basic electrical and/or mechanical engineering principles
   b. the ability to identify, formulate and solve engineering physics problems
   c. the ability to apply the design process to engineering problems
   d. the ability to formulate, conduct, analyze and interpret experiments in engineering physics
2. Engineering physics graduates from UW-Platteville must have developed professional skills which will allow them to:
   a. communicate their ideas effectively, both orally and in writing
   b. function effectively in multidisciplinary teams
   c. use modern engineering techniques and tools, including software and laboratory instrumentation
3. Engineering physics graduates must have the educational background to be good citizens, as well as good engineers, including:
   a. an understanding of their professional and ethical responsibility to society
   b. knowledge of the relationship between technology and society
   c. a capacity and desire for lifelong learning to improve themselves as citizens and engineers
   d. a knowledge of technical contemporary issues
Curricular Goals
The engineering physics curriculum is 130 credits including 61 credits of engineering. The engineering physics program provides a balanced curriculum emphasizing physics and engineering principles with design, diverse hands-on experiences to prepare the engineering physics graduate for the demands of laboratory or manufacturing environments, and strong communication and team working skills. The engineering credits are divided nearly equally among electrical and mechanical engineering science, engineering physics and a professional engineering concentration. The electrical engineering and mechanical engineering science includes introductory courses that provide the necessary prerequisites for further study in these two areas. The engineering physics core covers nearly all the basic areas of physics with a special emphasis placed on practical problem solving, including design. The professional engineering concentration consists of electives. Here a student may tailor the program to suit individual interests by selecting from a long list of courses in electrical and mechanical engineering, as well as some courses in software and industrial engineering. While students are free to choose the electives, we encourage them to select one of the following preconfigured concentrations: controls, electronics/communications, mechanical design, electric power, energy conversion (or thermo-fluid systems), software/digital or biomedical engineering.

More recently, an emphasis in Microsystems & Nanomaterials may be obtained in place of the concentrations. (An emphasis, unlike a concentration, appears on the transcript.) See below for details about this emphasis.

Academic Standards
1. An average G.P.A. > 2.00 is required for all professional engineering courses taken to fulfill the requirements of the engineering physics major (all required and elective engineering courses numbered 3000 or above).
2. A “C-” or better is required in the following prerequisites for required courses in the engineering physics curriculum: MATH 2640, 2740, 2840, 3630; PHYSICS 2240, 2340, 3140; ENGRPHYS 4010; ELECTENG 1210, 2210; GENENGR 2130.
3. A “C-” or better is also required in prerequisite courses for some elective courses in the engineering physics curriculum. Students must refer to the catalog for prerequisite requirements for their selected electives. A student may graduate with a “D” (or even an “F” in some cases) in an engineering course if he/she takes other electives for which the course with the “D/F” is not a prerequisite.
4. Only one “D/D+” in an ENGRPHYS course may be counted toward graduation.

General Requirements

Total for graduation .......................... 130 credits
General education ............................ 31 credits

Admission Requirements
For admission to engineering physics, students must meet the following requirements:
1. Complete the general engineering core for engineering physics (ENGLISH 1130, CHEMISTRY 1450, GENENGR 1000, GENENGR 1030, GENENGR 2030, MATH 2640 and MATH 2740) with a minimum core grade point average. The required C.G.P.A. for engineering physics is 2.40 as of spring 2011. Students must also have a “C-” or better in MATH 2640 and 2740.

Students who fail to meet the C.G.P.A. standard may appeal to the general engineering department. Appeals will be considered by the engineering physics faculty based on overall G.P.A. and performance in general physics.

Engineering Physics Major (99 credits)

Mathematics Courses (15 credits):
MATH 2640 Calculus and Analytic Geometry I 4 cr
MATH 2740 Calculus and Analytic Geometry II 4 cr
MATH 2840 Calculus and Analytic Geometry III 4 cr
MATH 3630 Differential Equations I 3 cr
MATH/other elective 3–4 cr

Math/Other Electives (3–4 credits):
MATH 3230 Linear Algebra 3 cr
MATH 3730 Numerical Analysis 3 cr
MATH 3830 Differential Equations II 3 cr
MATH 4030 Statistical Methods with Applications 3 cr
MATH 4430 Advanced Calculus 3 cr
MATH 4530 Complex Variables 3 cr
IE 4730 Engineering Management 3 cr
CHEMSTRY 3540 Organic Chemistry I 4 cr

Basic Sciences Courses (17 credits):
CHEMSTRY 1450 Chemistry for Engineers 5 cr
PHYSICS 2240 General Physics I 4 cr
PHYSICS 2340 General Physics II 4 cr
PHYSICS 3140 Modern Physics 4 cr

Other Courses (8 credits):
GENENGR 1000 Engineering Success Skills 1 cr
GENENGR 1030 Engineering Projects 1 cr
GENENGR 2030 Engineering Modeling and Design 3 cr
COMPUTER 1430 Programming in C++ 3 cr

Engineering Science Courses (17-18 credits):
GENENGR 2130 Engineering Mechanics - Statics 3 cr
ELECTENG 1210 Circuit Modeling I 3 cr
ELECTENG 2210 Circuit Modeling II 4 cr
ELECTENG 2220 Signals and Systems 4 cr
MECHNCHL 2630 Thermodynamics 3 cr
or
GENENGR 2630 Thermoscience 3 cr
or
GENENGR 2340 Mechanics of Materials 4 cr

ENGRPHYS 3240 Applied Mechanics 4 cr
ENGRPHYS 3640 Electric and Magnetic Fields 4 cr
ENGRPHYS 4010  Engineering Physics Lab 2 cr
ENGRPHYS 4140 Applied Optics 4 cr
ENGRPHYS 4210 Sensor Lab 2 cr
ENGRPHYS 4220 Introduction to Quantum Electronics 2 cr
ENGRPHYS 4930 Engineering Physics Design 3 cr
Professional Engineering Electives (17-18 credits)

Students may choose any of the 3000/4000-level electrical engineering and 3000/4000-level mechanical engineering courses, as well as a short list of software engineering, industrial engineering, engineering physics, and MSNT courses for the professional engineering electives. Three of these courses must include design and at least one of these three must be 4000 level. While the student is free to choose, the program encourages students to select courses which form a concentration. Such concentrations have been developed and are as follows:

- **Controls:** EE3020, EE3310, EE4310, EE4320, EE4350
- **Mechanical Design:** ME3040, ME3330, ME4740; two of ME4440, ME4800, ME4840, ME4850
- **Electronics:** EE3020, EE3770, EE3310, EE3410, EE4440
- **Electrical Power:** EE3020, EE3410, EE4430, EE4450
- **Thermal Design:** ME3300, ME3640; four of ME4730, ME4550, ME4600, ME4520, ME4630
- **Digital:** EE3770, EE3780, EE3130, EE4720, EE4750
- **Materials:** ME3040, ME3330, ME4440, ME4430, EE3130, MSNT3940
- **Biomedical (mechanics):** BIOLOGY 2340, IE3430, ME4500, ME3040, ME4440, ME4430

**Engineering Physics with Emphasis in Microsystems and Nanomaterials (102 credits)**

To obtain the Engineering Physics degree with an Emphasis in Microsystems and Nanomaterials, students complete the requirements for the major, with the following selections:

**Engineering Science Courses (18 credits):**

Complete Engineering Physics requirements, selecting GENENG 2340 instead of a thermoscience or thermodynamics course.

**Other Courses (12 credits):**

Complete Engineering Physics requirements, selecting CHEMSTRY 3540 instead of Math elective or INDSTENG 4730.

**Professional Engineering Electives (19 credits)**

The following courses are required:

- MECHNCHL 3040 Engineering Materials 3 cr
- MSNT 3940 Principles & Applications of Nanotechnology 4 cr
- MSNT 4230 Design, Simulation & Fabrication of MEMS 3 cr
- MSNT 3xx Properties of Materials 3 cr
- MSNT 4xx Surfaces, Thin Films, and Heterostructures 3 cr

In addition, select a professional engineering design elective (see above). Suggested courses – but not required – include MECHNCHL 4430 Advanced Materials, and MECHNCHL 4440 Failure of Materials.

**Microsystems and Nanomaterials**

www.uwplatt.edu/mn

**Contact:** Harold T. (Hal) Evensen
**Office:** 227 Engineering Hall
**Phone:** 608.342.1531
**E-mail:** evensenh@uwplatt.edu

The Department of Engineering Physics administers an interdepartmental major in Microsystems and Nanomaterials.

Microsystems and Nanomaterials at UW-Platteville is a multidisciplinary program that develops future scientists who are capable of addressing problems of a nontraditional nature, including contributing to the development and application of microsystems and nanomaterials. The MSNT curriculum is built on a foundation of the major principles of a traditional discipline (biology, chemistry, physics) and augmented with specialized knowledge in the realm of nanomaterials and microsystems.

**Program Objectives:**

The upper-division technical courses in the major are part of the Engineering Physics program’s emphasis in MSNT, and as such shares its educational objectives. These are to provide majors with

… a quality undergraduate education in liberal studies, mathematics, science, and engineering to prepare them:

1. to, within a few years of graduation, have attained positions as professionals in industry, government, or academia;
2. to become responsible, accountable, current professionals who work well with those both within and outside their profession, and demonstrate leadership at some level.

**Program Outcomes:**

Microsystems and Nanomaterials graduates from UW-Platteville must:

1.) Demonstrate a working knowledge of fundamental science and basic engineering principles that are the foundation of microsystems & nanomaterials;
2.) Identify, formulate, and solve interdisciplinary problems related to nanomaterials;
3.) Formulate, conduct, analyze, and interpret experiments including micro- and nano-scale phenomena and systems, using the appropriate specialized tools;
4.) Independently establish procedures for original research;
5.) Communicate ideas effectively, both orally and in writing;
6.) Function effectively in multidisciplinary teams;
7.) Use modern techniques and tools, including software and laboratory instrumentation.
8.) An understanding of their professional and ethical responsibility to society, including:
9.) Knowledge of the relationship between technology and society;
10.) Capacity and desire for life-long learning to improve themselves as citizens and scientists; and
11.) A knowledge of technical contemporary issues

**Curricular Goals**

The Microsystems and Nanomaterials program is constructed so that students will be trained in a core body of knowledge in a field of science or engineering, augmented by skills and knowledge particular to micro- and nano-scale structures, materials, and systems. To this end, the curriculum combines a broad science base in physics, chemistry, and biology with the engineering
science of materials. The upper-division courses in microsystems and nanomaterials build on this broad science base to provide specialized content on the design, fabrication, and characterization of nanomaterials, culminating in a yearlong capstone senior research project. In addition, students pursue professional science and/or engineering electives that allow them develop a core body of knowledge and to tailor the program to suit individual interests.

The Microsystems and Nanomaterials Bachelor of Science degree is 126 credits including at least 33 credits in the sciences, 10 credits in engineering science, 16 credits in microsystems/nanomaterials, and 20 upper-division professional electives in science and/or engineering. As of this writing, three required courses are in development for the 2013-14 and 2014-15 academic years.

**Academic Standards**

1. MSNT students must achieve a “C-” or better in ENGLISH 1130.
2. A “C-” or better is also required in prerequisite courses for some courses in the curriculum. Students must refer to the catalog for prerequisite requirements for their selected electives. A student may graduate with a “D” (or even an “F” in some cases) in a science or engineering course if he/she takes other electives for which the course with the “D/F” is not a prerequisite.
3. An average G.P.A. > 2.00 is required for all professional science and engineering courses taken to fulfill the requirements of the Microsystems and Nanomaterials major (all required and elective science and engineering courses numbered 3000 or above).
4. Only one “D” (or “D+”) in an MSNT course may be counted toward graduation.

**General Requirements**

**Bachelor of Science Degree**

Total for graduation:.......................... 126 credits
General education:............................ 31 credits

**Microsystems and Nanomaterials Major (98 credits)**

**Mathematics Courses (15 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>Statistical Methods w/ Applications</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Basic Sciences Courses (33-38 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTY 1450</td>
<td>Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTY 1140</td>
<td>General Chemistry</td>
<td>8 cr</td>
</tr>
<tr>
<td>CHEMSTY 3540</td>
<td>Organic Chemistry</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTY 3510</td>
<td>Organic Chemistry Laboratory</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTY 4130</td>
<td>Physical Chemistry I</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTY 4630</td>
<td>Biochemistry</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 2240</td>
<td>General Physics I</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 2340</td>
<td>General Physics II</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 3140</td>
<td>Modern Physics</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTY 4230</td>
<td>Physical Chemistry II</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Other Courses (4 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tr>
<td>GENENG 1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>UWPSTDY 1010</td>
<td>Introduction to College Life</td>
<td>1 cr</td>
</tr>
<tr>
<td>BIOLOGY 1020</td>
<td>BioQuest: Fdns for College Success</td>
<td>1 cr</td>
</tr>
<tr>
<td>PHILSPHY 2540</td>
<td>Science, Technology and Ethics</td>
<td>3 cr</td>
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</tbody>
</table>

**Engineering Science Courses (10 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GENENG 2130</td>
<td>Engineering Mechanics - Statics</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2340</td>
<td>Mechanics of Materials</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG 2930</td>
<td>Applications of Electrical Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>ELECTENG 1210</td>
<td>Circuit Modeling I &amp; II</td>
<td>7 cr</td>
</tr>
</tbody>
</table>

**Microsystems and Nanomaterials Courses (16 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSNT 1010</td>
<td>Intro. to Microsystems &amp; Nanotechnology</td>
<td>1 cr</td>
</tr>
<tr>
<td>MSNT 3940</td>
<td>Principles &amp; Applications of Nanotechnology</td>
<td>4 cr</td>
</tr>
<tr>
<td>MSNT 4230</td>
<td>Design, Fabrication, and Simulation of MEMS</td>
<td>3 cr</td>
</tr>
<tr>
<td>MSNT 3xx0</td>
<td>Properties of Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>MSNT 4xx0</td>
<td>Surfaces, Thin Films, and Heterostructures</td>
<td>3 cr</td>
</tr>
<tr>
<td>MSNT 4000</td>
<td>Research in Microsystems &amp; Nanomaterials</td>
<td>1 cr</td>
</tr>
<tr>
<td>MSNT 4910</td>
<td>Capstone Research</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

**Professional Science and Engineering Electives (20 credits):**

The B.S. degree requires twenty credits of professional science and/or engineering courses. Electives should be chosen in consultation with an academic advisor. The courses are given below:

**Electrical Engineering (ELECTENG):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2220</td>
<td>Signals &amp; Systems</td>
<td></td>
</tr>
<tr>
<td>3020</td>
<td>Analog Electronics</td>
<td></td>
</tr>
<tr>
<td>3130</td>
<td>Solid State Electronic Devices</td>
<td></td>
</tr>
<tr>
<td>3140</td>
<td>Electric &amp; Magnetic Fields</td>
<td></td>
</tr>
<tr>
<td>3310</td>
<td>Automatic Controls</td>
<td></td>
</tr>
<tr>
<td>3770</td>
<td>Logic &amp; Digital Design</td>
<td></td>
</tr>
<tr>
<td>3780</td>
<td>Introduction to Microprocessors</td>
<td></td>
</tr>
<tr>
<td>4050</td>
<td>Advanced Analog Electronic Circuits</td>
<td></td>
</tr>
<tr>
<td>4310</td>
<td>Modern Controls Systems</td>
<td></td>
</tr>
</tbody>
</table>

**Engineering Physics (ENGRPHYS):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3240</td>
<td>Applied Mechanics</td>
<td></td>
</tr>
<tr>
<td>3640</td>
<td>Electric &amp; Magnetic Fields</td>
<td></td>
</tr>
<tr>
<td>4010</td>
<td>Engineering Physics Laboratory</td>
<td></td>
</tr>
<tr>
<td>4140</td>
<td>Applied Optics</td>
<td></td>
</tr>
<tr>
<td>4210</td>
<td>Sensors Laboratory</td>
<td></td>
</tr>
<tr>
<td>4220</td>
<td>Introduction to Quantum Electronics</td>
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</tr>
</tbody>
</table>

**Mechanical Engineering (MECHNCHL):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3030</td>
<td>Dynamical Systems</td>
<td></td>
</tr>
<tr>
<td>3040</td>
<td>Engineering Materials</td>
<td></td>
</tr>
<tr>
<td>3230</td>
<td>Manufacturing Processes</td>
<td></td>
</tr>
<tr>
<td>3330</td>
<td>Design of Machine Elements</td>
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</tr>
<tr>
<td>3640</td>
<td>Heat Transfer</td>
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</tr>
<tr>
<td>4330</td>
<td>Automatic Controls</td>
<td></td>
</tr>
<tr>
<td>4430</td>
<td>Advanced Materials</td>
<td></td>
</tr>
<tr>
<td>4440</td>
<td>Failure of Materials</td>
<td></td>
</tr>
<tr>
<td>4500</td>
<td>Biomedical Engineering</td>
<td></td>
</tr>
<tr>
<td>4530</td>
<td>Computational Fluid Dynamics</td>
<td></td>
</tr>
<tr>
<td>4550</td>
<td>Heat Transfer Applications</td>
<td></td>
</tr>
<tr>
<td>4800</td>
<td>Finite Element Method</td>
<td></td>
</tr>
<tr>
<td>4830</td>
<td>Mechatronics</td>
<td></td>
</tr>
<tr>
<td>4840</td>
<td>Vibration Systems Design</td>
<td></td>
</tr>
<tr>
<td>4850</td>
<td>Computer Aided Engineering</td>
<td></td>
</tr>
</tbody>
</table>
Microsystems & Nanomaterials Engineering (MSNT): 4000 Research in Micro/Nanomaterials; 4980 Special Topics in MSNT

Biology (BIOLOGY): 3240 Microbiology; 3330 Genetics; 3450 Ecology & Evolution; 3530 Biotechnology; 3620 Immunology; 4040 Molecular Biology; 4920 Independent Research in Biology

Chemistry (CHEMISTRY): 2150 Quantitative Analysis; 2730 Inorganic Chemistry; 3630 & 3610 Organic Chemistry II & Lab; 3810 Chemical Synthesis & Characterization; 4000 Undergraduate Research; 4060 Seminar; 4110 Physical Chemistry Lab I; 4240 Instrumental Analysis; 4610 Biochemistry Lab; 4730 Advanced Topics in Inorganic Chemistry; 4820 Advanced Topics in Physical Chemistry; 4830 Biochemistry Topics; 4910 Advanced Biochemistry Laboratory

Physics Minor (24 credits)

Minor in Physics (Science Emphasis)
PHYSICS 2240 General Physics I 4 cr
PHYSICS 2340 General Physics II 4 cr
PHYSICS 3140 Modern Physics 4 cr

Plus at least 12 credits from:
ENGRPHYS 3240 Applied Mechanics 4 cr
ENGRPHYS 3640 Electric and Magnetic Fields 4 cr
ENGRPHYS 4140 Applied Optics 4 cr
ENGRPHYS 4220 Introduction to Quantum Electronics 2 cr
ENGRPHYS 4980 Special Topics in Engineering 1-3 cr
ENGRPHYS 4990 Independent Study in Engineering 1-3 cr

Minor in Physics (Education Emphasis)
PHYSICS 2240 General Physics I 4 cr
PHYSICS 2340 General Physics II 4 cr
PHSC 1310 Introductory Astronomy Lab 1 cr
PHSC 1340 Introductory Astronomy 4 cr
PHYSICS 3140 Modern Physics 4 cr

Plus at least 7 credits from:
GENENG 2980 Applications of Electrical Engineering 3 cr
GENENG 2630 Thermoscience 3 cr
ENGRPHYS 3640 Electric and Magnetic Fields 4 cr
ENGRPHYS 4140 Applied Optics 4 cr
ENGRPHYS 4220 Introduction to Quantum Electronics 2 cr
ENGRPHYS 4980 Special Topics in Engineering 1-3 cr
ENGRPHYS 4990 Independent Study in Engineering 1-3 cr

Microsystems and Nanotechnology Minor (24 credits)
Required courses (9 credits):

MSNT 1010 Introduction to Microsystems and Nanotechnology 1 cr
MSNT 3940 Principles and Applications of Nanotechnology 4 cr
MSNT 4000 Research in Microsystems and Nanotechnology 1-3 cr
MSNT 4230 Design, Fabrication, and Simulation of MEMS 3 cr
OR GENENG 2930 Applications of Electrical Engineering 3 cr
(Chem. majors)
OR CHEMISTRY 4130 and 4110 Physical Chemistry 3+1 cr
and Lab (Biology majors)

Electives (15 credits):
BIOLOGY 2040 Cell Biology 4 cr
BIOLOGY 3240 Microbiology 4 cr
BIOLOGY 3330 Genetics 3 cr
BIOLOGY 3530 Biotechnology 3 cr
BIOLOGY 4040 Molecular Biology 3 cr
BIOLOGY 3620 Immunology 2 cr
CHEMISTRY 2150 Quantitative Analysis 5 cr
CHEMISTRY 3540 Organic Chemistry 4 cr
CHEMISTRY 4630 Biochemistry 3 cr
CHEMISTRY 4130 Physical Chemistry 3 cr
ELECTENG 3020 Analog Electronics 4 cr
ELECTENG 3130 Solid State Electronics 3 cr
ELECTENG 3310 Automatic Controls 4 cr
MECHENG 4330 Automatic Controls 3 cr
ENGRPHYS 3640 Electric & Magnetic Fields 4 cr
MECHENG 3140 Electric & Magnetic Fields 4 cr
ENGRPHYS 3240 Applied Mechanics 4 cr
ENGRPHYS 4140 Applied Optics 4 cr
ENGRPHYS 4210 Sensors Laboratory 2 cr
ENGRPHYS 4220 Intro. Quantum Electronics 2 cr
MECHENG 3040 Engineering Materials 3 cr
MECHENG 3230 Manufacturing Processes 3 cr
MECHENG 3330 Design of Machine Elements 3 cr
MECHENG 4500 Biomedical Engineering 3 cr
MECHENG 4830 Mechatronics 3 cr
PHILSPHY 2540 Science, Technology and Ethics 3 cr

120
BROAD FIELD SCIENCE

Contact: Andrew Pawl
Office: 225 Engineering Hall
Phone: 608.342.6160
E-mail: pawla@uwplatt.edu

The College of Engineering, Mathematics and Science administers an interdepartmental broad field science major and a natural science minor.

BROAD FIELD SCIENCE
COMPREHENSIVE MAJOR

The broad field science comprehensive major (along with an early adolescence-adolescence education program) is designed to prepare students for early adolescence-adolescence certification in broad field science and upper-level certification in the areas of concentration.

The requirements for an interdepartmental broad field science major include:

A foundation of required courses from each of the four science areas (30-41 credits): Students must complete a one-semester survey course or a two-semester sequence in each of the 5 science disciplines listed below. Each student must complete the two semester sequence in at least two of the disciplines. If only one course is taken in a discipline, it must be the one-semester survey course.

Biology
BIOLOGY 1150 General Biology 5 cr
or the sequence
BIOLOGY 1650 The Unity of Life 5 cr
BIOLOGY 1750 The Diversity of Life 5 cr

Chemistry
CHEMISTRY 1050/1450 General Chemistry 5 cr
or the sequence
CHEMISTRY 1140 General Chemistry I 4 cr
CHEMISTRY 1240 General Chemistry II 4 cr

Earth and Space Science
PHSC 1340 Astronomy 4 cr
PHSC 1310 Astronomy Lab I 1 cr

Earth Science
GEOGRPHY 1040 Planet Earth 4 cr
or the sequence
GEOGRPHY 1240 Weather and Climate 4 cr

And One course from:
GEOLOGY 1140 Physical Geology 4 cr
or
GEOGRPHY 1140 Global Landforms 4 cr

Physics
PHYSICS 1050 Principles of Physics 5 cr
or the sequence
PHYSICS 1350 Introductory Physics I 5 cr
PHYSICS 1450 Introductory Physics II 5 cr
(Or PHYSICS 2240 and 2340 for eight credits)

Approved concentrations from two of the science areas (15-19 credits) or a minor in Biology, Chemistry, Physics, or a major in Biology, or Chemistry, Environmental Science:

Biology Concentration
BIOLOGY 1650 and 1750
BIOLOGY 3450 Ecology and Evaluation 3 cr
BIOLOGY 2340 Essentials of Anatomy and Physiology 4 cr
BIOLOGY 3330 Genetics 3 cr

Chemistry Concentration
CHEMISTRY 1140 and 1240
CHEMISTRY 2150 Quantitative Analysis 4 cr
CHEMISTRY 3540 Organic Chemistry Lecture 4 cr
CHEMISTRY 3510 Organic Chemistry Lab 1 cr

Earth and Space Science Concentration
PHSC 1310 and 1340
GEOGRPHY 1240
GEOLOGY 1140 Physical Geology

One course from
GEOLOGY 1240 Historical Geology 4 cr
GEOGRPHY 1140 Global Landforms 4 cr

One course from
GEOLOGY 3430 Hydrogeology 4 cr
GEOLOGY 3550 Process Geomorphology 4 cr
GEOLOGY 4840 Soil Geomorphology 4 cr

Physics Concentration
PHYSICS 2240 and 2340 OR 1350 and 1450
MATH 2640 Calculus and Analytic Geometry I
PHYSICS 1900 OR 3140 Modern Physics I 4 cr

One course from
INDUSTDY 2260 Semiconductors 3 cr
GENENG 2930 Applications of Electrical Engineering 3 cr

Students must complete science electives for a total of 60 science credits. All courses accepted toward a concentration or a science major/minor count.

Other Courses (9-15 credits):
MATH 2530 or 2450 3 or 5 cr
MATH 1830 or 2640 3 or 4 cr
xGEOGRPHY 3330 Environmental Conservation 3 cr

Recommended Courses
PHLSPHY 2540 Science, Technology, and Ethics 3 cr
Natural Science Minor
The natural science minor is only available to B-11 or middle level education majors.

A minimum of one course (or lecture and lab combination) from:

| **Astronomy** |  |  |
| PHSC 1340 Introductory Astronomy | 4 cr |
| PHSC 1310 Introductory Astronomy Lab | 1 cr |

| **Biology** |  |  |
| BIOLOGY 1150 General Biology | 5 cr |

| **Chemistry** |  |  |
| CHEMISTRY 1050 General Chemistry | 4 cr |
| CHEMISTRY 1140 General Chemistry* | 4 cr |

| **Geosciences** |  |  |
| GEOGRPHY 1040 Planet Earth | 4 cr |
| GEOGRPHY 1140 Global Landforms | 4 cr |
| GEOGRPHY 1240 Physical Geography: Weather and Climate* | 4 cr |

| **Physics** |  |  |
| PHYSICS 1150 Physical Science | 5 cr |
| PHYSICS 1050 Principles of Physics | 5 cr |
| PHYSICS 1350 Introductory Physics I* | 5 cr |

*Must be selected if this science area is chosen to satisfy the two semester concentration specified in part two.

A two-semester concentration is required in one science area.

| **Biology** |  |  |
| BIOLOGY 1650 The Unity of Life | 5 cr |
| BIOLOGY 1750 The Diversity of Life | 5 cr |

| **Chemistry** |  |  |
| CHEMISTRY 1140 General Chemistry | 4 cr |
| CHEMISTRY 1240 General Chemistry | 4 cr |

| **Geosciences** |  |  |
| GEOGRPHY 1240 Physical Geography | 4 cr |

| **And one course from:** |  |  |
| GEOGRPHY 1040 Planet Earth | 4 cr |
| GEOGRPHY 1140 Global Landforms | 4 cr |
| GEOLOGY 1140 Physical Geology | 4 cr |
| GEOLOGY 1240 Historical Geology | 3 cr |

| **Physics** |  |  |
| PHYSICS 1350 Introductory Physics I | 5 cr |
| PHYSICS 1450 Introductory Physics II | 5 cr |
About the Department and Program

The general engineering program is designed to prepare students for admission into one of seven professional engineering programs available at UW-Platteville. All of the engineering programs are accredited by the Accreditation Board for Engineering and Technology. All new freshman engineering students and transfer students who do not immediately qualify for a professional program must begin their UW-Platteville studies in the general engineering department.

Students admitted to the university must also have a score of 22 or higher on their math ACT or a grade of "C-" or better in Calculus I (MATH 2640) or its equivalent) to gain admission into general engineering. Students who do not meet this engineering standard will remain in "pre-engineering" until obtaining a "C-" or better in Calculus I (MATH 2640).

General engineering students have varied backgrounds; some are better prepared for their college studies than others. The general engineering program offers students an opportunity to correct academic deficiencies and ensures that students enter the professional programs with suitable preparation. The general engineering program also allows students several semesters to finalize their choice of major.

Upon entering the UW-Platteville General Engineering Department, each student will be asked to select a preferred professional program (major). The student’s choice at this point is not binding; it will merely provide the college with some information for planning purposes. Students electing to change their program preference may do so at any time by stopping by the General Engineering Office in Room 153 of Ottensman Hall.

In order to gain admission to one of the seven professional programs (civil engineering, electrical engineering, engineering physics, environmental engineering, industrial engineering, mechanical engineering or software engineering), a student must satisfy all requirements of the general engineering program, as described next.

Because there are limits to the number of students that each professional program can accommodate, admission to the individual professional programs is somewhat competitive. Twice a year, each degree-granting department establishes a minimum core grade point average required for admission to its program(s) at the end of the semester. Admission to a specific program is based on the program C.G.P.A. requirement in effect during the semester in which the student completes the general engineering requirements. The C.G.P.A. requirement for a given program does not reflect the difficulty of that program. The C.G.P.A. requirement simply indicates the accumulated level of student demand for that program. A student who completes the general engineering core courses and does not achieve the program’s minimum C.G.P.A. criterion may be admitted to that program by the department chair if space is available.

Educational Goals and Objectives

1. Prepare students for entrance into the professional engineering programs
2. Smooth the transition from high school to college for new freshmen majoring in engineering through proper advising, schedule-building, counseling and monitoring
3. Assist freshmen and transfer students in career counseling relative to both engineering and non-engineering fields
4. Recruit and retain high quality high school and transfer students interested in majoring in engineering with special emphasis on attracting women and minorities
5. Maintain the high quality of instruction and professional development necessary to ensure the accreditation of the professional programs

Sample First Semester Coursework

Although courses are tailored to the individual student’s background and major requirements, a typical first semester freshman schedule would be:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENGLISH 1130</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1450</td>
<td>5 cr</td>
</tr>
<tr>
<td>GENENG 1000</td>
<td>1 cr</td>
</tr>
<tr>
<td>PHYSED 1000</td>
<td>1 cr</td>
</tr>
<tr>
<td>Humanities or social science elective</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Total credits: 14-17

www.uwplatt.edu/geneng
General Engineering Program Requirements

1. Each student must complete the following core courses:

<table>
<thead>
<tr>
<th>Engineering Major</th>
<th>CHEMISTRY 1450</th>
<th>ENGLISH 1130</th>
<th>GENENG 1000</th>
<th>GENENG 1030</th>
<th>GENENG 1320</th>
<th>GENENG 2030</th>
<th>MATH 2640</th>
<th>MATH 2740</th>
<th>MATH 2730</th>
<th>PHYSICS 2240</th>
<th>COMPUTER 1430</th>
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</thead>
<tbody>
<tr>
<td>Civil</td>
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<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Electrical</td>
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</tr>
<tr>
<td>Eng. Physics</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
<tr>
<td>Environmental</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Industrial</td>
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<td>*</td>
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<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Mechanical</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>X</td>
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<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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</tr>
</tbody>
</table>

* Select either GE 1320 or GE 2030.

2. Students who complete their core courses in fall 2013 must earn the following C.G.P.A. to gain entry into their respective professional program:

- Civil engineering: 2.60
- Electrical engineering: 2.50
- Engineering physics: 2.40
- Environmental engineering: 2.60
- Industrial engineering: 2.20
- Mechanical engineering: 2.60
- Software engineering: 2.30

A student who completes the general engineering core courses and does not achieve the program’s minimum C.G.P.A. criterion may be admitted to that program by the department chair if space is available.

3. Each student must earn a grade of “C-“ or better in MATH 2640 and MATH 2740.

4. Each degree-granting department also designates certain courses as professional courses that require a grade of “C-“ or better. The professional courses for each department are:
   • Civil engineering and environmental engineering: Any course that is a prerequisite for a civil or environmental engineering course.
   • Electrical engineering: Any course that is a prerequisite for an electrical engineering course.
   • Engineering physics: All physics or engineering physics courses which are prerequisites for later courses in the major must be completed with a “C-“ or better. Also, an engineering physics major must have a G.P.A. of 2.00 for all 3000/4000 engineering courses.
   • Industrial engineering: All required industrial engineering courses must be completed with an overall “C“ average.
   • Mechanical engineering: All courses in mechanical engineering must be completed with an overall “C“ average. Some prerequisites for mechanical engineering courses require a “C-“ or better.
   • Software engineering: All required software engineering and computer science courses. Software engineering majors must earn a “D“ or better in all corequisites, unless otherwise stipulated by the offering department.

General Engineering Program Academic Standards

Once enrolled in MATH 2640, a student must successfully complete the general engineering program requirements before accumulating 60 additional credits at UW-Platteville. Each repetition of a given course will be counted toward the 60 credit limit. With the exception of the general engineering core courses, credits earned at UW-Platteville prior to admission to general engineering will not be counted toward the 60 credit limit.

Dismissal from Engineering

Engineering majors who fail to meet the C.G.P.A. of their professional program within the 60 credit limit will be dismissed from engineering.

General Engineering 60-credit dismissal policy:
Two groups of 60-credit dismissals exist based on an evaluation by the General Engineering chair -

1) A student is warned that he/she has exceeded the 60-credit limit but granted a waiver for one more semester to complete the core-requisites and enroll in an engineering degree-granting program. The student will maintain his/her faculty advisor, but will also be referred to the EMS advising office to participate in an academic action plan. The student will have two advisors, the faculty advisor as well as a professional advisor from the EMS advising office. The student will maintain the professional advisor for at least one semester. At the conclusion of the semester, if the student fails to achieve admission into a degree-granting engineering program, he/she will be dismissed from General Engineering and the major changed to Undecided Math and Science. The student will then be advised by the ACES office. His/Her academic advising folder will be sent to the ACES Office. The student can also be mentored by the EMS advising office if he/she wishes to do so.

2) A student is dismissed from General Engineering and his/her major is changed to Undecided Math and Science. The student will be advised by the ACES office. His/Her academic advising folder will be sent to the ACES Office. The student can also be mentored by the EMS advising office if he/she wishes to do so.

Readmission of dismissed students to Engineering:

All dismissed engineering students must appeal through the General Engineering department to be readmitted into engineering. The General Engineering chair, in cooperation with other chairs and the EMS advising office, will make decisions pertinent to readmission of dismissed students. If students are readmitted, the General Engineering Chair and if relevant the degree-granting department chair, in conjunction with the EMS Advising Office will determine if an Academic Action Plan is a necessary requirement for readmission. A readmitted student will be re-assigned a faculty advisor, and a professional advisor from the EMS Advising Office will serve in a supplemental capacity. The professional advisor will advise the student for at least one semester.
Transfer Credits
1. The transfer of credits into any engineering program must be approved by the appropriate department chair. All transfer of credits must follow the specific requirements of the professional program which the student will be entering, including any specific grade requirement(s).
2. Pass/fail or “D” grades are generally not transferable into engineering.

3. It is understood that students entering engineering with an Associate of Arts or Science degree from the UW Colleges, a four-year UW System institution or from the Illinois or Highland Community Colleges will have satisfied the general education requirements for UW-Platteville.
4. Students transferring from programs that are not ABET accredited may be required to substantiate their expertise in the topics in question.

DEPARTMENT OF MATHEMATICS

www.uwplatt.edu/math

Department Chair: Barb Barnet
Office: 435 Gardner Hall
Phone: 608.342.1741
E-mail: barnetb@uwplatt.edu

Professors:
Barbara Barnet
David Boyles
Robert Calceterra
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Julie McDonald
Jason Thrun
Sheryl Will

Associate Professors:
Christopher Frayer
Ahyoung Kim
Leonida Ljumanovic
James Swenson
Irfan Ul-Haq

Lecturers:
Holly Attenborough
Rachel Becvarik
Michael Black
Vicki Reuter

Lecturers:
Lauren Bingham
Terry Desjarlais
Amy Dye
Jodean Grunow
Amy Mohr
Susan Mowry
Gerald Moore
Zehra Muslu
Florence Obielodan

Academic Department Associate:
Cinda Furry

About the Department and Major
Welcome to the exciting world of mathematics. Mathematics has an extensive history of developing new ideas and enriching the sciences and engineering. With the progression of technology, mathematics has become increasingly important. It is used in areas as diverse as economics, psychology, linguistics, biology, management science, computer science and agriculture. Thus, both the mathematics major and minor provide a strong and flexible background for a variety of careers. Students majoring in mathematics must take a core of required courses, while elective courses are chosen with regard to career goals. Students who plan to work in business, industry or engineering related fields after graduation choose their electives from applied mathematics courses such as differential equations and numerical analysis. Students planning to work as an actuary or toward an advanced

in discrete math and the history of mathematics. Students who plan to pursue graduate work in mathematics would choose theoretical courses in algebra, analysis and geometry. Students who plan to work in cryptology might select a number theory course, while

students planning a career that uses mathematical modeling in the biological sciences might choose a differential equations course.

UW-Platteville graduates with a major in mathematics have pursued a variety of careers such as teachers and professors, actuaries, statisticians, financial or market analysts, researchers, computer programmers or software engineers. A degree in mathematics can open the door to many opportunities.

Mission
The purpose of the mathematics curriculum is to provide all students with quantitative skills to function proficiently in a societal and professional capacity. In addition to offering majors and minors in mathematics, the UW-Platteville Department of Mathematics offers courses to support both the general education requirements of the university and the major and minor programs of other departments. Within this mission, the department of mathematics strives to furnish an open, enlightened environment, with frequent student/faculty interaction, resulting in a high quality undergraduate education that will develop and enhance students’ computational and reasoning skills.

Educational Goals and Learning Outcomes
The goals of the mathematics major at UW-Platteville are to: degree in statistics would include upper level probability and statistics courses. Those who plan to teach would choose courses
1. prepare students with the skills needed to pursue careers in education, business and industry
2. provide a theoretical foundation that will prepare students to continue their study of mathematics or statistics at the graduate level
3. provide students with opportunities to experience mathematics outside of their regular coursework

Upon graduation, mathematics majors at UW-Platteville should be able to:
1. communicate mathematics effectively
2. demonstrate a computational ability in solving a wide array of mathematical problems
3. differentiate between valid and invalid mathematical reasoning
4. develop mathematical ideas from basic axioms
5. utilize mathematics to solve theoretical and applied problems
6. identify applications of mathematics in other disciplines and in society

Placement
Initial placement of students in mathematics courses will be determined by the UW-Platteville Department of Mathematics on the basis of scores on the UW System Mathematics Placement Test or acceptable college transfer credit in mathematics. Advanced placement credit for calculus and analytic geometry is awarded only to students who satisfactorily complete the College Entrance Examination Board Advanced Placement Examination in Calculus. Upon request students will receive: 1) four credits for MATH 2640 if they receive a score of four or five on the CEEB Advanced Placement Calculus AB examination; 2) three credits for MATH 2630 if they receive a score of three on the CEEB Advanced Placement Calculus AB examination; 3) eight credits for MATH 2640 and 2740 if they receive a score of four or five on the CEEB Advanced Placement Calculus BC examination; or 4) four credits for MATH 2640 if they receive a score of three on the CEEB Advanced Placement Calculus BC examination. Credit for MATH 1830 Elementary Statistics is awarded to students having received a score of three, four or five on the CEEB Advanced Placement Statistics examination.

Students taking sequential courses in mathematics must attain a grade of “C-” or better before taking the succeeding course.

Calculator Policies
Many of the courses in the department require calculators. However, there are some restrictions as to what specific types of calculators may or may not be used in specific courses. Please go to the department website at www.uwplatt.edu/mathematics to find a link to the current calculator policies.

General Requirements
Bachelor of Science Degree
Total for graduation.......................... 120 credits
General education .................................. 44-58 credits
Major studies...................................... 40 or 64 credits
Mathematics Major OR Mathematics Major in Secondary Education ............. 40 credits
Mathematics Major with Emphasis in Actuarial Science OR Emphasis in Finance ........ 64 credits

Academic Standards:
A grade of “C-” or better is required in all mathematics courses counted toward degree requirements.

Mathematics Major (40 credits)
Core Requirements
Mathematics majors are required to complete all of the following:
MATH 2640 Calculus and Analytic Geometry I 4 cr
MATH 2740 Calculus and Analytic Geometry II 4 cr
MATH 2840 Calculus and Analytic Geometry III 4 cr
MATH 3230 Linear Algebra 3 cr
MATH 3330 Modern Algebra 3 cr
MATH 4030 Statistical Methods with Applications 3 cr
MATH 4430 Advanced Calculus 3 cr
MATH 4810 Senior Seminar 1 cr

In-Depth Experience Requirement
Mathematics majors are required to complete a more thorough study of a particular area of mathematics. This requirement may be satisfied by one of the following courses: MATH 3830 Differential Equations II, MATH 4040 Statistics and Probability or MATH 4530 Complex Variables.

Electives Requirement
Mathematics majors must complete at least one of the following courses: MATH 2730 Discrete Mathematics, COMPUTER 1130 Introduction to Programming or COMPUTER 1430 Programming in C++.

In addition to the elective requirement described above, all mathematics majors must complete at least nine additional credits in mathematics. If COMPUTER 1130 or COMPUTER 1430 was chosen above, then MATH 2730 may be used here as an additional elective. Courses numbered below 2640 or between 3000 and 3100 may not be counted toward this requirement. Students seeking a double major in mathematics and engineering may count up to six credits of selected engineering courses (CIVILENG 3100, CIVILENG 3300, ELECTENG 3140, ELECTENG 4310, ENGRPHYS 3240, ENGRPHYS 3640, INDSTENG 3530, MECHNCHL 3030, MECHNCHL 3300 and MECHNCHL 3640) as mathematics electives.

Mathematics Department Residency Requirement
A student majoring in mathematics must complete at least 12 upper-level credits in mathematics at UW-Platteville. These credits must be from courses numbered above 3100, with the exception that MATH 2730 Discrete Mathematics may be part of the 12 credits. The 12 credits completed at UW-Platteville may include repeats of courses taken at another campus.

Natural Science Requirement
All mathematics majors must successfully complete one of the following courses: CHEMSTRY 1140 General Chemistry, CHEMSTRY 1450 Chemistry for Engineers or PHYSICS 2240 General Physics I.

Mathematics Major in Secondary Education (40 credits)
Core Requirements
Mathematics majors in secondary education are required to complete all of the following:
MATH 2640 Calculus and Analytic Geometry I 4 cr
MATH 2740 Calculus and Analytic Geometry II 4 cr
MATH 2840 Calculus and Analytic Geometry III 4 cr
MATH 3020 Teaching of Mathematics in the Middle and Secondary School 3 cr
MATH 3130 College Geometry 3 cr
MATH 3230 Linear Algebra 3 cr
MATH 3330 Modern Algebra 3 cr
MATH 4030 Statistical Methods with Applications 3 cr
MATH 4430 Advanced Calculus 3 cr
MATH 4810 Senior Seminar 1 cr

Mathematics Electives Requirement
In addition to the requirements described above, all mathematics majors in secondary education must complete at least nine additional credits in mathematics. Courses numbered below 2640 or between 3000 and 3100 may not be counted toward this requirement. Students seeking a double major in mathematics-secondary education and engineering may count up to six credits of selected
engineering courses (CIVILENG 3100, CIVILENG 3300, ELECTENG 3140, ELECTENG 4310, ENGRPHYS 3240, ENGRPHYS 3640, INDSTENG 3530, MECHNCHL 3030, MECHNCHL 3300 and MECHNCHL 3640) as mathematics electives.

Mathematics Department Residency Requirement
All mathematics majors in secondary education must complete at least 12 upper-level credits in mathematics at UW-Platteville. These credits must be from courses numbered above 3100, with the exceptions that MATH 2730 Discrete Mathematics and/or MATH 3020 Teaching of Mathematics in the Middle and Secondary School may be part of the 12 credits. The 12 credits completed at UW-Platteville may include repeats of courses taken at another campus.

Computer Science Requirement
All mathematics majors in secondary education are required to complete one of the following: COMPUTER 1130 Introduction to Programming or COMPUTER 1430 Programming in C++.

Natural Science Requirement
All mathematics majors in secondary education must successfully complete one of the following courses: CHEMSTRY 1140 General Chemistry, CHEMSTRY 1450 Chemistry for Engineers or PHYSICS 2240 General Physics I.

NOTE: The following policies will apply when calculating the G.P.A. for (i) admission to student teaching AND (ii) application for teacher licensure:

a) The G.P.A. will be calculated from the 40 credits of mathematics courses counted toward the major. The required computer science course and natural science course are not counted in the G.P.A. calculation.

b) Transfer courses at the time of matriculation to UW-Platteville will be counted in the 2.75 G.P.A. calculation for mathematics majors in secondary education.

c) Transfer courses that are not repeats of courses taken at UW-Platteville will be counted in the 2.75 G.P.A. calculation for mathematics majors in secondary education.

d) Transfer courses that are repeats of courses taken at UW-Platteville will not be counted in the 2.75 G.P.A. calculation for mathematics majors in secondary education.

Actuarial Science Emphasis (64 credits)
Students completing this emphasis must complete all the requirements for the 40-credit mathematics major, including MATH 4040 Probability and Statistics as well as completing 24 credits in the following business-related courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTING</td>
<td>2010 Financial Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>2020 Management Accounting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>1300 Global Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3430 Risk Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3620 Corporate Finance</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3930 Investments</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC</td>
<td>2130 Macroeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC</td>
<td>2230 Microeconomics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

In addition to these required courses, students majoring in this emphasis should also consider taking

Finance Emphasis (64 credits)
Students completing this emphasis must complete all the requirements for the 40-credit mathematics major, including MATH 4040 Probability and Statistics as well as earning a minimum of 24 credits subject to the restrictions outlined below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTING</td>
<td>2010 Financial Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>2020 Management Accounting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3620 Financial Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3710 Bank Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3930 Investments</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>4030 Financial Decision Making</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives Requirement
All mathematical majors with an emphasis in finance must successfully complete at least two of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN</td>
<td>3400 Personal Finance Planning</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3430 Risk Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3640 Financial Systems Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3650 International Finance</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

In addition to these required courses, students majoring in this emphasis should also consider taking the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOMIC</td>
<td>2130 Macroeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC</td>
<td>2230 Microeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>1730 Mathematics of Finance</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Mathematics Minor (24 credits)
Mathematics minors must earn a minimum of 24 credits in mathematics subject to the restrictions outlined below. Credit for courses numbered below 2640 or between 3000 and 3100 may not be included in this total. The courses selected to satisfy this requirement must include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>2640 Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>2740 Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>2840 Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

At least one course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>3230 Linear Algebra</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>3630 Differential Equations I</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>3730 Numerical Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>4030 Statistical Methods with Applications</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Mathematics Electives Requirement
In addition to the requirements described above, all mathematics minors must complete at least nine additional credits in mathematics. Courses numbered below 2640 or between 3000 and 3100 may not be counted toward this requirement.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 4030</td>
<td>Financial Decision Making</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Mathematics Minor in Secondary Education (27 credits)
Mathematics minors in secondary education must earn a minimum of 27 credits in mathematics by completing all of the following required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 3020</td>
<td>Teaching of Mathematics in the Middle and Secondary School</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3130</td>
<td>College Geometry</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3230</td>
<td>Linear Algebra</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3330</td>
<td>Modern Algebra</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>Statistical Methods with Applications</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

In addition to these requirements, all mathematics minors in secondary education must successfully complete either COMPUTER 1130 Introduction to Programming or COMPUTER 1430 Programming in C++ (or equivalent), and either CHEMISTRY 1140 General Chemistry (or CHEMISTRY 1450 Chemistry for Engineers) or PHYSICS 2240 General Physics I.

Mathematics Minor for Middle Level Teachers (24 credits)
(Intended for students who are majoring in elementary and middle level education. Other students should contact the UW-Platteville Mathematics Department for details.)

Mathematics minors for middle level teachers must earn a minimum of 24 credits in mathematics by completing all of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH1030</td>
<td>Mathematics for Educators I</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 2030</td>
<td>Mathematics for Educators II</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3030</td>
<td>Mathematics for Educators III</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 1830</td>
<td>Elementary Statistics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 2450</td>
<td>Precalculus</td>
<td>5 cr</td>
</tr>
<tr>
<td>MATH 2630</td>
<td>Calculus with Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3040</td>
<td>Mathematics Seminar for</td>
<td>4 cr</td>
</tr>
<tr>
<td></td>
<td>Middle Level Teachers</td>
<td></td>
</tr>
</tbody>
</table>

Students may substitute MATH 1530 College Algebra and MATH 2530 Trigonometry and Analytic Geometry for MATH 2450 Precalculus. Students may substitute MATH 2640 Calculus and Analytic Geometry I for MATH 2630 Calculus with Applications.

DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

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Phone: 608.342.1721
Fax: 608.342.1566
E-mail: kunzd@uwplatt.edu

Majors
Industrial Engineering
Mechanical Engineering

About the Department and Majors
The UW-Platteville Department of Mechanical and Industrial Engineering offers two Bachelor of Science degrees: mechanical engineering and industrial engineering. The two disciplines have complementary aspects and provide opportunities for close cooperation between them. The department’s mission is to provide an open, student-friendly environment with frequent student-faculty interaction that results in a high quality undergraduate mechanical or industrial engineering education and enables graduates to practice their profession with proficiency and integrity.

Industrial Engineering
www.uwplatt.edu/ie

Contact: David N. Kunz
Office: 210 Engineering Hall
Phone: 608.342.1651

Professors:
Swaminathan Balachandran
Jill M. Clough
Patricia Jinkins

Academic Department Associate:
Kelly Steiger
Jane Kuhl

Assistant Professors:
Mazen Hussein

University of Wisconsin Platteville’s Industrial Engineering program is accredited under the General Criteria by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Industrial engineering is concerned with the design, improvement and installation of integrated systems of people, materials and technology. Industrial engineers combine a knowledge of mathematics, physical science and social science with the principles and methods of engineering analysis and design. At one time, industrial engineers were employed mainly in manufacturing. Today, however, they are employed by both manufacturing and service industries, which has increased the demand for industrial engineers.

Industrial engineers are generalists rather than specialists. Therefore, the industrial engineering curriculum at UW-Platteville covers a broad range of topics related to engineering practice. It includes study in engineering science topics as well as in each area of emphasis within industrial engineering. In addition, students are required to fulfill general university requirements in the humanities, physical sciences, social sciences and other areas. The main purpose of the industrial engineering curriculum is to prepare new engineers to practice at the frontiers of engineering knowledge and
professional practice immediately after graduation.
Educational Objectives and Outcomes

Objectives: The educational objectives of the industrial engineering program, as measured within five years of graduation, are listed below.

1. Industrial Engineers that successfully apply technical knowledge to solve industrial engineering problems
2. Industrial Engineers that communicate effectively orally and in writing
3. Industrial Engineers that pursue professional growth

Outcomes: At the time of graduation, students have achieved the following outcomes of the industrial engineering program:

1. An ability to apply knowledge of mathematics, science and engineering
2. An ability to design and conduct experiments as well as to analyze and interpret data
3. An ability to design a system or process to meet specified requirements
4. An ability to work as part of a multidisciplinary team
5. An ability to identify, formulate and solve industrial engineering problems
6. An understanding of professional and ethical responsibility
7. An ability to effectively and accurately present information orally, and effectively and accurately communicate in writing
8. An understanding of the impact of industrial engineering solutions in a global, economic, environmental and societal context
9. An ability to pursue professional growth through lifelong learning activities, a knowledge of contemporary issues and ability to use techniques, skills and modern engineering tools necessary for engineering practice.

Academic Standards
A 2.00/4.00 G.P.A. must be maintained in all professional engineering courses.

General Requirements
Bachelor of Science Degree

Total for graduation.......................... 130-132 credits
Major studies................................. 98-99 credits

Industrial Engineering Major
(98-99 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>Statistical Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMISTRY</td>
<td>1450 Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS 2240</td>
<td>General Physics I</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 2340</td>
<td>Essentials of Anatomy and Physiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 2340</td>
<td>General Physics II</td>
<td>4 cr</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOLOGY 4440</td>
<td>Human Gross Anatomy</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG 1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1030</td>
<td>Introduction to Engineering Projects</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1320</td>
<td>Engineering/Computer Graphics</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENENG 2130</td>
<td>Engineering Mechanics—Statics</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2340</td>
<td>Mechanics of Materials</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG 2820</td>
<td>Engineering Economy</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

And 6 credits from

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENENG 2630</td>
<td>Basic Thermoscience</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2930</td>
<td>Applications of Electrical Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2230</td>
<td>Engineering Mechanics—Dynamics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Professional Engineering Courses (48 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDSTENG 2130</td>
<td>Fundamentals of Industrial and Systems Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 3130</td>
<td>Industrial Engineering Computer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 3430</td>
<td>Human Factors Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 3530</td>
<td>Operations Research I</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 3630</td>
<td>Work Measurement and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4030</td>
<td>Production and Operations Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4230</td>
<td>Facilities Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4430</td>
<td>Quality Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4730</td>
<td>Engineering Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4830</td>
<td>Engineering Continuous Improvement</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4930</td>
<td>Industrial Systems Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3040</td>
<td>Engineering Materials</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Industrial Engineering Technical Electives
Each student must complete technical electives with a minimum of 12 credits in consultation with advisor.

At least six technical elective credits must be numbered IE XXXX.

At least nine technical elective credits must be numbered 3000 or higher.

Mechanical Engineering

www.uwplatt.edu/meie

Contact: David N. Kunz
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Prathvadi B. Ravikumar
Kurt C. Rolle
Lynn M. Schlager

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Jeff Hoerning
Anne-Marie Lerner
Michael Zampaloni

Assistant Professors:
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Jessica P. M. Fick
Aric McLanahan
John Obielodan
Thomas J. Zolper

Lecturer:
Guy Campbell
Vetrivel Gnaneswaran

Academic Department Associate:
Jane Kuhl
University of Wisconsin Platteville's Mechanical Engineering program is accredited under the General Criteria by the Engineering Accreditation Commission of ABET, http://www.abet.org

Mechanical engineers meet the needs of society in many important ways including the creative planning, development and operation of mechanical systems for using energy, machines and
resources; use and commercial conversion of energy to provide heat, cooling, transportation and power; design and production of labor-saving machines; and processing materials into useful products. Mechanical engineers serve such diverse areas as energy, mechanical systems, robotics, automation, environment, transportation, heating and cooling systems, bioengineering, manufacturing systems and electronics. Mechanical engineering is an exciting and challenging profession for women and men.

The main purpose of the mechanical engineering curriculum is to develop in each student a thorough understanding of fundamental theory, augmented and illustrated by practical application. It provides a balance between engineering science and engineering design, complemented with a strong liberal arts education. Faculty members are dedicated to providing students with the personal attention needed for maximum development of skills.

UW-Platteville has partnered with the thirteen UW Colleges campuses to provide electrical engineering and mechanical engineering bachelor’s degrees that are ABET accredited to individuals throughout the state of Wisconsin.

Because an associate degree earned through UW Colleges automatically satisfies all of UW-Platteville’s general education requirements, most students work on the general education courses, as well as the pre-engineering courses (e.g., math, physics, chemistry) at one of the two-year campuses. When students are ready to begin the professional engineering courses, they apply to UW-Platteville.

UW-Platteville delivers the professional engineering courses to students at a distance in two ways. Students near the UW-Fox Valley, UW-Rock County, and UW-Washington County campuses may take the professional engineering courses taught by UW-Platteville personnel through a combination of face-to-face instruction and distance learning technology. Students anywhere in the state of Wisconsin may take the professional engineering courses via distance learning technology. Lab managers regularly visit selected UW Colleges campuses to facilitate the required lab work for courses that include a lab component.

### Educational Objectives and Outcomes

Mechanical Engineering Program Educational Objectives evaluated 2 to 5 years after graduation:

1. Graduates are effective team members, aware of cultural diversity, who conduct themselves ethically and professionally.
2. Graduates use effective communication and technical skills.
3. Graduates build upon and adapt knowledge of science, mathematics, and engineering to take on more expansive tasks that require an increased level of self-reliance, technical expertise, and leadership.

### Academic Standards

#### Program Core Entry Courses:
- GENENG 1000, GENENG 1030, GENENG 2030, MATH 2640, MATH 2740, ENGLISH 1130, CHEMISTRY 1450, PHYSICS 2240

Minimum G.P.A. in Core Entry Courses: 2.6/4.0 as of fall 2010, subject to change at any time. Any student who achieves this minimum core G.P.A. qualifies for admission into the mechanical engineering program. Students with a lower core G.P.A. may be admitted to mechanical engineering at the discretion of the mechanical engineering chair.

#### Requirements to Graduate:

1. Completion of all university and general education requirements
2. Enrolled and in good standing in the mechanical engineering program
3. Successful completion of all required courses for the mechanical engineering major. Successful completion means earning a “D” or better in every course with the exceptions of MATH 2640, MATH 2740, MATH 2840, PHYSICS 2240, GENENG 2030, GENENG 2130, GENENG 2230, GENENG 2340 and GENENG 2930. In these courses a grade of “C-” or better must be earned
4. A grade point average of 2.0/4.0 in required courses for the mechanical engineering major and approved mechanical engineering technical electives. The method for computing this grade point average is identical to the method used to calculate the university grade point average.

### Course Repeat Policy:

Required general engineering and mechanical engineering courses may be repeated once.

### General Requirements

#### Bachelor of Science Degree

Total for graduation: 132 credits

Major studies: 101 credits
# Mechanical Engineering Major

(101 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>3630</td>
<td>Differential Equations</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH</td>
<td>4030</td>
<td>Statistical Methods with Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>1450</td>
<td>Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>2240</td>
<td>General Physics I</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>2340</td>
<td>General Physics II</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG</td>
<td>1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG</td>
<td>1030</td>
<td>Introduction to Engineering Projects</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG</td>
<td>2030</td>
<td>Engineering Modeling and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG</td>
<td>2820</td>
<td>Engineering Economy</td>
<td>2 cr</td>
</tr>
<tr>
<td>GENENG</td>
<td>2130</td>
<td>Engineering Mechanics - Statics</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG</td>
<td>2230</td>
<td>Engineering Mechanics - Dynamics</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG</td>
<td>2340</td>
<td>Mechanics of Materials</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG</td>
<td>2930</td>
<td>Applications of Electrical Engineering</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

## Professional Engineering Courses (50 credits)

(minimum 2.0 G.P.A. required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHNCHL</td>
<td>2630</td>
<td>Thermodynamics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3030</td>
<td>Dynamical Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3040</td>
<td>Engineering Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3230</td>
<td>Manufacturing Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3300</td>
<td>Fluid Dynamics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3330</td>
<td>Design of Machine Elements</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3430</td>
<td>Introduction to Computational Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3640</td>
<td>Heat Transfer</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3720</td>
<td>Mechanical Systems Lab</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3830</td>
<td>Mechanisms and Machines</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4330</td>
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College of Liberal Arts and Education

Dean: Dr. Elizabeth A. Throop
E-mail: throope@uwplatt.edu
Associate Dean: Dr. Kory Wein
E-mail: weink@uwplatt.edu
Office: 160 Gardner Hall
Phone: 608.342.1151

School of Education

Departments
- Department of Criminal Justice
- Department of Geography
- Department of Health and Human Performance
- Department of History
- Department of Humanities
- Department of Performing and Visual Arts
- Department of Psychology
- Department of Social Sciences

Programs
- Ethnic Studies Program
- International Studies Program
- Social and Environmental Justice Program
- Women’s and Gender Studies Program

The mission of the College of LAE is to provide a broad foundation of knowledge for all students, fostering an appreciation of the complexity of human nature and the diversity of human experience. The college accomplishes this in two ways: by providing liberal studies courses that form the foundation of a university education and by offering a variety of major and minor programs that may be used as a basis for career development. Liberal education courses foster development of flexible, critical, reflective, and divergent thinking as well as skills in oral and written communication, collaboration, and problem-solving. All of these skills form the foundation for lifelong learning and global citizenship, preparing students not only for their chosen careers but for their personal lives as citizens and adults.

The college provides in-depth study in the liberal arts as well as programs leading to certification to teach. Licensure may be obtained in a major, a comprehensive major and/or minor.

The college’s outstanding faculty has received numerous awards for excellence in teaching, research, service, teamwork, and other academic achievements. Faculty members view their principal responsibility as teaching. They take pride in advancing their majors in liberal arts and professional programs and engaging in productive interactions with members of the community.

Education Abroad Program

UW-Platteville students are able to participate in more than 700 different programs abroad, including: study abroad, exchange, student teaching, internships, service learning and volunteering, and research abroad. These credit bearing programs embrace more than 200 different areas of study and range in duration from two weeks to one year. Students are able to go abroad for a semester, an academic or calendar year, or over the spring, winter, and summer breaks on a short-term program.

Programs are available in more than 50 countries all over the globe, and students return having not only earned credit toward their degree, but more importantly, making an investment in their future. For more information, please visit Royce Hall 111 or email studyabroad@uwplatt.edu.

Applied Learning

The College of LAE offers classroom, computer, and laboratory facilities. State-of-the-art multimedia lecture rooms are used by our faculty, and many departments have departmental computer labs that facilitate interactive learning. Williams Fieldhouse provides up-to-date facilities for health and physical education programs, including a dual-purpose laboratory/lecture space, and the Center for the Arts includes a 565-seat concert hall with excellent acoustics, a 200-seat theater, rehearsal halls, faculty studios, and numerous practice rooms.

Internships and Co-ops

The College of LAE departments and programs provide students with opportunities to pursue work experiences through internships and co-ops. Students are able to use their classroom knowledge to solve real-world problems under the careful guidance of mentors and the supervision of university faculty members. These and other experiential learning opportunities offered by LAE departments and programs ensure that students are prepared to enter the workforce and pursue their career endeavors.

LAE Policies and Procedures

Students enrolled in the College of LAE may earn either a Bachelor of Arts or a Bachelor of Science degree. The college offers both of these degrees in most programs. A degree program consists of three parts: 1) liberal education requirements, 2) major requirements, and 3) minor requirements and/or electives. The liberal education component has been established to provide all students, regardless of major, with a solid foundation for lifetime learning that is essential for successful personal and professional development. Since the liberal education requirements are also intended to aid students in advanced college studies, they should be completed during the freshman and sophomore years.

In addition to the liberal education component, each degree candidate must complete a major offered in the College of LAE. A typical major program requires 36 credits.
Comprehensive majors require 60 or more credits. A minor (usually 24 credits) or second major (within or outside the College of LAE) is optional. In teacher education, students are required to have an approved comprehensive major, an approved major and minor, or two approved majors.

The College of LAE has added the following stipulations to its degree programs:

1. To earn a major, minor or certificate in the College of LAE, a student must have a minimum G.P.A. of 2.00 in all courses taken for the major, minor or certificate program. Individual departments within the college may establish higher requirements than the minimum set by the university or college for majors, minors and/or certificates.

2. Each department and program in the College of LAE has established a writing certification requirement for its majors. This writing requirement must be completed before graduation can take place. Details on the writing requirement along with other major requirements are available at department offices.

SCHOOL OF EDUCATION

www.uwplatt.edu/education

Director: Karen Stinson, Ed.D.
Office: 139 Doudna
Phone: 608.342.1131
E-mail: stinsonk@uwplatt.edu

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Liz Runde
Jessica Leibfried

Academic Department Associate:
Judy Belken

University Services Associates:
Mary Fischer
Mary Jo Durni

Professors:
Rea Kirk
John F. Nkemnji
Karen Stinson

Associate Professors:
Daniel Leitch
Peggy Marciniac
Leigh Monhardt
Wonim Son

Assitant Professors:
Lindsay Hollingsworth

Lecturers: Jessica
Brogley Dave
Chellevold Andrea
Dannenberg Ted
Evans
Jodean Grunow
Nancy Hammermeister
Edina Haslauer
Tim Hazen
Dale Henze
Shari Johnson
Becky Lee
Beth Putnam
Nichole Schweitzer
Jan Weier
Nan Welch

Mission of the School of Education
The mission of the School of Education is to provide the highest quality education to prepare professionals who think critically, teach and counsel using best practices research from a broad knowledge base, and use effective skills strengthened by professional disposition.

Baccalaureate: The undergraduate curriculum prepares candidates for initial licensure as professional educators.

Post Baccalaureate/Graduate programs: A variety of programs (e.g., cross-categorical, education administration, reading licensure) are provided to assist teachers to extend their licensure areas and to build professional portfolios.

Partnership: The School of Education is committed to the UW-Platteville mission. To help meet that mission, many formal and informal partnerships have been developed and are maintained within the university community, local school districts, and other agencies and industries.

Knowledge, Skill and Disposition Statements
Domain 1: Planning and Preparation
Candidates will:
- demonstrate knowledge of content and pedagogy
- demonstrate knowledge of students
- select instructional goals
- demonstrate knowledge of resources
- design coherent instruction
- assess student learning

Counseling Psychology
School Counseling (graduate program only)
Domain 2: The Classroom Environment

Candidates will:
- create an environment of respect and rapport
- establish a culture for learning
- manage classroom procedures
- manage student behavior
- organize physical space
Domain 3: Instruction
Candidates will:
communicate clearly and accurately
use questioning and discussion techniques
engage students in learning
provide feedback to students
demonstrate flexibility and responsiveness

Domain 4: Professional Responsibilities
Candidates will: reflect on
teaching maintain accurate
records communicate with
families
contribute to the school and district
grow and develop professionally
show professionalism

Please contact the School of Education for further details regarding
the assessment plan.

About the School and Majors
The School of Education includes all teacher education licensure
areas. The school also includes graduate programs in counseling
psychology and teacher education. Programs include:

Counseling Psychology
Contact: Karen Stinson, Ed.D.
E-mail: stinsonk@uwplatt.edu
Phone: 608.342.1131

Teacher Education
Contact: Karen Stinson, Ed.D.
E-mail: stinsonk@uwplatt.edu
Phone: 608.342.1131

The School of Education has a rich history at UW-Platteville. The
university has been preparing teachers since the first Normal
School was established in 1866. The school takes great pride in
this tradition and is committed to the continuation of quality in its
educational offerings and programs.

The degree programs build on the School of Education theme, Best
Practices Make the Difference. Best practices follow a
developmental, reflective model. Best practices teachers are
defined as professionals who are aware of the developmental
stages of their students as well as their own professional
developmental needs. Best practices teachers are growing in
their skills of providing developmentally appropriate instruction and
effective teacher strategies to assist students in becoming
reflective thinkers. Best practices teachers are themselves
reflective thinkers.

The School of Education administers professional education
programs at UW-Platteville and is responsible for the preparation
of teachers. The School of Education is responsible for all
professional and clinical programs; serves as a resource center for
students, faculty, program directors, and administrators; maintains
appropriate student records; and maintains appropriate records
for accreditation and Wisconsin Department of Public Instruction
program approval.

Education Office of Special Programs
(Graduate Program Only)
The Education Office of Special Programs provides administrative
support to graduate programs and, in particular, the cross-
categorical special education, educational administration, reading,
English language learner, and bilingual education programs that
lead to licensure by the Wisconsin DPI. More information can be
obtained by calling 608.342.1276 or 1.800.208.7041.

Teacher Licensure Requirements
The Wisconsin DPI makes periodic changes in teacher licensure
requirements that may affect teacher education programs. It is the
responsibility of all students to contact the Director of the School of
Education to make certain that they have the most current
information to ensure proper planning. All students enrolled in
teacher preparation programs must proceed through three steps:
1. Admission to the School of Education
2. Admission to student teaching
3. Completion of licensure requirements

Note: (a) Any student seeking teaching licensure who has been
convicted of a criminal offense must contact the Wisconsin DPI
to discuss eligibility for a teaching license. (b) The DPI regularly
changes licensure requirements. Any requirement changed after
publication of this catalog will still be required of the student to be
licensed. Students should check with their advisors regularly to
determine needed changes in their programs due to changes in
licensure rules.

Level 1 Benchmark: Admission to the School
of Education
All students intending to become teachers in elementary, middle,
or secondary school should take the basic skills test in their
freshman year if ACT or SAT scores are not sufficient. All students
should file application for admission to the School of Education by
their sophomore year at UW-Platteville.

Note: Only students who have been admitted to the School of
Education may enroll in restricted education courses.

Transfer students must earn a minimum of 15 credits at UW-
Platteville before admission to the School of Education. Transfer
students may apply for admission during their first semester on
campus and complete interview(s) and other requirements that
semester.

To be eligible for admission, teacher candidates must meet the
following minimum requirements:
1. Successfully complete the basic skills tests. Passing
scores for Praxis CORE in reading 156, writing 162
and mathematics 150. Beginning September 1, 2013,
Wisconsin Educator Preparation Programs (EPP) may
use one of the following three college entrance tests.
ACT: composite score of 23 with a minimum score of 20
on English, math, and reading. SAT: composite score of
1070 with minimum score of 450 on math and verbal. GRE
(revised after 8/11/2011): composite score of 298 with
minimum score of 150 on verbal and 145 on math. Teacher
candidates should satisfy this requirement during their first
year at UW-Platteville
2. Earn grades of “C” or better in the following courses:
Freshman Composition (ENGLISH 1130 and ENGLISH
1230), SPEECH (2010 is strongly recommended though 1010 will satisfy the speech requirement), TEACHING 1230 Introduction to Education or HHP 2320 Introduction to Physical Education and Health Promotion and 2010 Educational Media Theory

3. Have earned 40 semester credits in an accredited college of which at least 15 credits have been earned at UW-Platteville

4. Have a cumulative grade point average of 2.65 or better

5. Prepare an admission portfolio, present it to an interview committee during Pre-Professional Days and be recommended for admission by the committee

6. Satisfy tutoring requirement: applies only to students in early childhood-middle childhood (birth-age 11) program

A student may be denied admission to the School of Education on the basis of unsatisfactory scores on any subsection of the Praxis CORE. In addition, a student might be denied admission based on faculty assessment of the applicant’s capacity to complete successfully the requirements of a professional teacher education program and to carry out the responsibilities of beginning teachers.

A student who has been denied admission on the basis of any of the established criteria may file an appeal with the chair of the Teacher Education Committee.

Level 2 Benchmark: Admission to Student Teaching

After admission to the School of Education, students complete coursework, including methods courses and pre-student teaching field assignments, which give students the opportunity to demonstrate content knowledge, teaching skills and professional dispositions. Students must submit a student teaching portfolio as evidence of their competencies.

Requirements: To be eligible for admission to student teaching, a candidate must:

1. Meet or exceed the minimum required grade point average of 2.75 overall and in major(s), teaching minor(s) and professional education courses (Note: 3.00 is required in major, minor and professional education for elementary education, B-11, students.)

2. Have completed appropriate methods course(s) for the major and minor, as well as TEACHING 2130 and TEACHING 3320 or equivalent courses

3. Have grades of “C-” or better in required methods courses, content courses, and in all required professional education courses completed

4. Have documentation of an approved student teaching / level II portfolio on file

5. Have passed the appropriate Praxis II content test(s) – no waivers allowed. Effective 1/31/2014, B-11 and 10-14 students will be required to pass the Wisconsin Foundations of Reading test

6. Have been admitted to the School of Education for one full semester prior to student teaching

7. Provide proof of a negative TB skin test

8. Have a current satisfactory criminal background check verified before placement into student teaching

Level 3 Benchmark: Student Teaching/Internship Experience and Licensure

Student teaching is the final component of the teacher education program and is scheduled for a full semester based on the local school calendar. Normally, student teaching is completed in a school district within a 100-mile radius of Platteville. Upon completion of student teaching, students must submit a licensure portfolio demonstrating their competencies.

Intern Teaching

A limited number of students are permitted to complete an internship in lieu of regular student teaching. Intern candidates must have a minimum G.P.A. of 3.00. Intern candidates are carefully screened by faculty and are interviewed by school districts as part of the selection process. The intern works in a team relationship with one or more teachers in the school system, spends a full semester under contract with the school district, is licensed by the DPI and receives compensation for duties performed. Contact the coordinator of Clinical Experiences for more information.

Licensure

To become licensed to teach in Wisconsin, students must complete the following steps before an application form is submitted to the Wisconsin DPI or other state.

1. Complete the teacher education program with the minimum required grade point average in the major, minor and professional education courses

2. Meet the minimum overall G.P.A. of 2.75 required to complete the program

3. Be judged as meeting all required performance standards reflected in the Wisconsin Teacher Standards and the knowledge, skills and dispositions of the UW-Platteville School of Education program. Initial teacher candidates must have evidence of successful review of a portfolio of artifacts reflecting their teaching performance and passing of the appropriate Praxis II content test(s) and other state mandated tests

4. Complete the license application on the DPI Educator Licensing Online (ELO) website once the certification officer has notified you of your program completion.

After transcripts and other measures of program completion have been reviewed, the certification officer may recommend licensure to the DPI.

Teacher education programs at UW-Platteville satisfy the requirements for licensure through the Wisconsin DPI. Wisconsin teaching licenses are highly regarded in other states; however, each state establishes its own set of rules for licensing teachers. While the School of Education assists with all aspects of the licensure process, it is ultimately the responsibility of those individuals planning to seek licensure in states other than Wisconsin to verify that they will qualify for licenses in those states.

Approved Licensure Programs

• Early childhood through middle childhood (birth-age 11)
• Early adolescence (ages 10-14)
• Early adolescence through adolescence (ages 10-21)
• Early childhood through adolescence (birth-age 21), which applies to special wide-range fields such as art, music, foreign languages, physical education/health, agriculture, technology education, and theatre
All licensure programs require the completion of a major and a professional education component.

Approved comprehensive majors, academic majors, and minors are listed below. More detailed information on individual majors and minors (and the course descriptions) can be found by looking under the department or school that houses the major or minor. The listing will also include the college in which the department is housed.

**Approved Comprehensive Majors**

- **Agricultural Education (B-21):** School of Agriculture (BILSA)
- **Agricultural Education/Technology Education dual certification (B-21):** School of Agriculture and Department of Industrial Studies (BILSA)
- **Art (B-21):** Department of Performing and Visual Arts (LAE)
- **Comprehensive (Broadfield) Social Sciences (10-21):** Department of Social Sciences (LAE)
- **Broadfield Science (10-21):** Department of Chemistry and Engineering Physics (EMS)
- **Music-Choral (B-21):** Department of Performing and Visual Arts (LAE)
- **Music-General (B-21):** Department of Performing and Visual Arts (LAE)
- **Music-Instrumental (B-21):** Department of Performing and Visual Arts (LAE)
- **Technology Education (B-21):** Department of Industrial Studies (BILSA)

**Approved Majors**

- **Biology:** Department of Biology (BILSA)
- **Chemistry:** Department of Chemistry and Engineering Physics (EMS)
- **Early Adolescence (middle-level, 10-14):** School of Education (LAE)
- **Elementary Education (B-11):** School of Education (LAE)
- **English:** Department of Humanities (LAE)
- **German:** Department of Humanities (LAE)
- **History:** Department of Social Sciences (LAE)
- **Mathematics:** Department of Mathematics (EMS)
- **Health and Human Performance:** Department of Health and Human Performance (LAE)
- **Spanish:** Department of Humanities (LAE)
- **Theatre:** Department of Performing and Visual Arts (LAE)

**Approved Minors**

- **Biology:** Department of Biology (BILSA)
- **Chemistry:** Department of Chemistry and Engineering Physics (EMS)

**Early Childhood (B-11 only):** School of Education (LAE)

**English:** Department of Humanities (LAE)

**English/Language Arts:** Department of Humanities (LAE)

**Environmental Science:** Department of Biology (BILSA)

**French:** Department of Humanities (LAE)

**German:** Department of Humanities (LAE)

**Health:** Department of Health and Human Performance (LAE)

**History:** Department of Social Sciences (LAE)

**Interdisciplinary Studies (10-14 program only):** School of Education (LAE)

**Mathematics:** Department of Mathematics (EMS)

**Natural Science (10-14 program):** Department of Chemistry and Engineering Physics (EMS)

**Physics:** Department of Chemistry and Engineering Physics (EMS)

**Social Sciences:** Department of Social Sciences (LAE)

**Spanish:** Department of Humanities (LAE)

**Special Education/Inclusion:** School of Education (LAE)

**Theatre:** Department of Performing and Visual Arts (LAE)

**Approved Concentrations**

- **Adapted Physical Education (B-21):** Department of Health and Human Performance (LAE)
- **Economics:** UW-Platteville Department of Social Sciences (LAE)
- **Geography:** UW-Platteville Department of Geography (LAE)
- **Political Science and Citizenship:** UW-Platteville Department of Social Sciences (LAE)
- **Psychology:** UW-Platteville Department of Social Sciences (LAE)
- **Sociology:** UW-Platteville Department of Social Sciences (LAE)

**Statutory and Administrative Code Requirements**

**Conservation**

Teachers of science, social studies, agriculture, early childhood, elementary and middle-level education programs are required to complete coursework in environmental education. GEOGRPHY 3330 Environmental Conservation partially fulfills this requirement. A specified field experience completes this requirement.
Cooperatives
Wisconsin statutes specify that “in granting certificates for the teaching of courses in economics, social studies, and agriculture, adequate instruction in cooperatives shall be required.” AGBUS 2500 Producer and Consumer Cooperatives fulfills this requirement. Also, HISTORY 1430 History of the U.S. since 1877 includes a unit on cooperatives that satisfies this requirement for social studies teachers.

Reading
For teachers in Birth-11 special education and early adolescence (middle level) programs. Wisconsin requires coursework in the teaching of reading and language arts using appropriate instructional methods, including phonics.

Minority Relations
Wisconsin requires that all students completing teacher preparation programs demonstrate knowledge and understanding of minority group relations including:

1. The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
2. The history, culture, and contributions of women and various racial, cultural, language, and economic groups in the United States.
3. The philosophical and psychological basis of attitude development and change.
5. Evaluating and assessing the forces of discrimination, especially racism and sexism, on faculty, students, curriculum, instruction, and assessment in the school program.
6. Minority group relations through direct involvement with various racial, cultural, language, and economic groups in the U.S.

In addition, students must demonstrate knowledge of conflict resolution including:

1. Resolving conflicts between pupils, and between pupils and school staff
2. Assisting pupils in learning methods of resolving conflicts between pupils, and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils
3. Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils, or between pupils and other persons

Children with Disabilities
All applicants for teaching licenses must meet the code requirements with regard to Children with Disabilities. TEACHING 3320 Introduction to Inclusion meets this requirement.

School Setting Field Experiences
Effective teacher preparation demands that pre-service teachers have laboratory experiences with children/adolescents during their preparation. These experiences are designed to acquaint teacher candidates with a variety of schools and settings, and to encourage them to connect educational theories with practice. Experiences are developmental, structured and supervised by university and school faculty. Teacher candidates will spend more than 150 hours in school settings prior to student teaching. Many professional education courses include service learning hours and laboratory experiences.

Teacher Education Programs
www.uwplatt.edu/education

Program Contact: Karen Stinson
Office: 139 Doudna Hall
Phone: 608.342.1131
E-mail: stinsonk@uwplatt.edu

Students seeking teaching licensure must be sure that courses taken for university general education requirements also satisfy the Wisconsin DPI requirements. The following are general guidelines. Specific requirements and suggestions are included with the licensure areas that follow this section.

General Requirements
Communication Skills:

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<td>ENGLISH 1230</td>
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<td>Entry Year Experience</td>
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<tr>
<td>SPEECH 2010</td>
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<td>or</td>
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<tr>
<td>SPEECH 1010</td>
<td>2 cr</td>
<td>(accepted)</td>
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<tr>
<td>Writing Emphasis</td>
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Foreign Language (0-8 credits):
Students who have not averaged “C-” or better in a second year high school language have not met this requirement.

Mathematics:
Students must complete mathematics courses as required by various programs.

Health and Human Performance:
Students must complete an approved wellness class (1-3 credits) and an approved physical activity class (1 credit).

Humanities, Fine Arts, and Historical Perspective:
Education students must complete four approved courses (12 credits) satisfying the following humanities guidelines:

1. There must be at least one course from each of the three areas of humanities, fine arts, and historical perspective. HISTORY 1020 satisfies the DPI non-Western culture requirement and the historical perspective requirement. A literature course is required to fulfill the humanities requirement.

2. Students must complete a second advanced course 2000 level or above in one of the three disciplines previously chosen.
Social Sciences:
Students must complete three approved general education social sciences courses (9 credits) satisfying the following:
1. Students must complete a course in state, local, and national government. POLISCI 1230 satisfies this requirement.
2. Students in early childhood, elementary, or middle-level programs, agriculture, any science major/minor or any social sciences major/minor must complete a course in environmental conservation. GEOGRPHY 3330 Environmental Conservation partially satisfies this requirement. A specified field experience completes this requirement.
3. All students must complete a second advanced course 2000 level or above in one of the two disciplines previously chosen.

Natural Sciences:
All students must complete a 4-5 credit course in physical science and a 4-5 credit course in biological life science (for an 8 credit total). Both must be lab courses.

International Education:
Students must complete an approved course in international education (3 credits). HISTORY 1020 satisfies this requirement.

Ethnic/Gender Studies:
Students must complete an approved course in ethnic/gender studies (3-6 credits): TEACHING 3630 Ethnic and Gender Equity in Education satisfies this requirement.

Early Childhood/Middle Childhood Education–Birth-Age 11
The curriculum in the early childhood through middle childhood education program is designed to develop resourceful, creative, and competent teachers to work with young children in educational settings. The program, which integrates theory and practice, meets the requirements for birth through age 11 teaching licensure for the state of Wisconsin. Beginning in the sophomore year, academic coursework is enriched by involvement with children and families, through observation/participation experiences in the UW-Platteville Children’s Center. Graduates are employed as preschool, kindergarten, and elementary teachers; administrators of child care centers; curriculum specialists; and resource and referral specialists within private corporations and the public sector.

General Requirements
Bachelor of Science Degree
Total for graduation..........................129-135 credits
General education..............................49-59 credits
Elementary Education Major......................25 credits
Early Childhood Minor...........................25 credits
Professional Education...........................30 credits

Program completion requires a G.P.A. of at least 3.00 in major, minor, and professional education; 2.75 overall prior to student teaching.

General Education (B-11)
(49-59 credits)
Communication (8-9 credits):
ENGLISH 1130 Freshman Composition I 3 cr
ENGLISH 1230 Freshman Composition II 3 cr
Entry Year Experience 1 cr
SPEECH 2010 Speech Communication for Teachers (recommended)
or
SPEECH 1010 Public Speaking (acceptable) 2 cr
Writing Emphasis 6 cr
A grade of “C” or better is required.

Foreign Language (0-8 credits):
Students who have not averaged “C” or better in a second year high school language have not met this requirement.

Math (9 credits):
MATH 1030 Math for Educators I 3 cr
MATH 2030 Math for Educators II 3 cr
MATH 3030 Math for Educators III 3 cr
A grade of “C” or better is required.

Health and Human Performance (2 credits):
HHP 1000 Fitness Assessment and Management 1 cr
HHP #### Physical Activity (see class schedule)

Humanities, Fine Arts, and Historical Perspective (12 credits):
Fine arts course (recommend)
ART 1230 Art and Children’s Literature 3 cr
for Teachers
or
ART 1240 Art and Social Studies for Teachers 3 cr
Humanities literature course (required) 3 cr
HISTORY 1020 World Civilization II (required) 3 cr
In-depth humanities, fine arts or historical perspective course 2000 level or above 3 cr

Social Sciences (9 credits):
POLISCI 1230 Introduction to American 3 cr
Government (required)
GEOGRPHY 3330 Environmental Conservation (required) 3 cr
In-depth social science course in political science or geography, 2000 level or above 3 cr
or
PSYCHLGY 1130 General Psychology 3 cr
PSYCHLGY 3130 Child Psychology 3 cr
or
TEACHING 2130 Human Growth and Development 3 cr
Natural Sciences (8 credits):
Biological science lab course (required) 4-5 cr
Physical science lab course (required) 4-5 cr
Select from chemistry, geography, geology, physics or physical science

International Education/Ethnic and Gender Studies (6-9 credits):
HISTORY 1020 World Civilization II 3 cr
(double counts as historical perspective and international education)
TEACHING 3630 Ethnic/Gender Equity in Education 3 cr
(counts for both ethnic and gender studies plus professional education)

Elementary Education Major—Birth-Age 11 (25 credits)
HHP 2040 Health, Nutrition, and Physical Education 4 cr
TEACHING 3040 Reading, Literature, and Literacy I 4 cr
TEACHING 4040 Reading, Literature, and Literacy II 4 cr
TEACHING 4090 Integrated Methods: Language Arts and Social Studies 4 cr
TEACHING 4140 Teaching Mathematics/Science in Early Childhood/Elementary Settings 4 cr
MUSIC 3160 Elementary Music Methods 3 cr
TEACHING 4250 Senior Seminar 2 cr
G.P.A. 3.00 or better and grade of “C-” or better

Early Childhood Minor—Birth-Age 11 (25 credits)
TEACHING 2210 Foundations of Early Childhood Education 3 cr
TEACHING 3130 K-4 Methods for Cognitive Development 3 cr
TEACHING 3240 Pre-K Methods for Cognitive Development 3 cr
TEACHING 3640 Creative Development in Early Childhood 3 cr
TEACHING 3730 Guidance, Assessment and Instruction in Early Childhood in Early Childhood 3 cr
TEACHING 4330 Administration and Family Relations in Early Childhood 3 cr
TEACHING 4420 Oral Language and Emergent Literacy 3 cr
TEACHING 4730 Working with Families of Children with Disabilities 2 cr
TEACHING 4240 Student Teaching (Early Childhood) 2 cr
G.P.A. of 3.00 or better and grade of “C-” or better

Professional Education—Birth-Age 11 (31 credits)
TEACHING 1230 Introduction to Education 2 cr
TEACHING 2010 Educational Media Theory 2 cr
TEACHING 2130 Human Growth and Development 3 cr
or
PSYCHLGY 3130 Child Psychology 3 cr
TEACHING 3320 Introduction to Inclusion 3 cr
TEACHING 3630 Ethnic and Gender Equity in Education 3 cr
TEACHING 4020 Educational Media Application 2 cr
TEACHING 4260/4360 Student Teaching (kindergarten/primary) 12 cr
or
TEACHING 4760 Internship 12 cr
TEACHING 4990 Licensure Portfolio 3 cr
G.P.A. of 3.00 or better and grade of “C” or better

Special Education/Inclusion Minor (24 credits)
The special education/inclusion minor is administered by the School of Education. It will lead to Wisconsin licensure in adaptive education, which means the holder of a regular education license will also be licensed to address Children with Disabilities in the general education classroom.
TEACHING 4030 Management for Children with Disabilities (CWD) 3 cr
TEACHING 4120 Pre-Student Teaching in CWD Environment or approved substitution 1 cr
TEACHING 4150 Assessing Children with Disabilities (CWD) 3 cr
or
COUNSELED 4600 Measurement for Counseling 3 cr
TEACHING 4200 Transitions for Counseling Disabilities (CWD) 3 cr
TEACHING 4420 Oral Language and Emergent Literacy 3 cr
TEACHING 4630 Learning and Language Disorders 3 cr
TEACHING 4730 Working with Families of Children with Disabilities (CWD) 2 cr
TEACHING 4830 Strategies for Effective Inclusion 3 cr
G.P.A. of 3.00 or better and grade of “C-” or better

Directed Elective (3-4 credits):
The directed elective is chosen from a list of approved courses that deal with topics related to exceptional needs education identified by teacher education and other departments and programs such as psychology, sociology, counseling psychology, ethnic studies, women’s and gender studies, and health and human performance.

Early Adolescence—Ages 10-14
Credit requirement for graduation .... 124 credits and up
General education .................................................. 49-55 credits
Minor(s) ................................................................. 24-48 credits
Professional education ............................................. 52 credits

General Education—Ages 10-14 (49-55 credits)
Communication (8-9 credits):
ENGLISH 1130 Freshman Composition I 3 cr
ENGLISH 1230 Freshman Composition II 3 cr
Entry Year Experience 1 cr
SPEECH 1010 Public Speaking (acceptable) 2 cr
or
SPEECH 2010 Speech Communication for Teachers 3 cr (recommended)
G.P.A. 3.00 or better and grade of “C” or better

Foreign Language (0-8 credits):
Students who have not averaged “C” or better in a second year high school language have not met this requirement. Check the catalog for specific requirements.
Math (9 credits):
MATH 1030 Math for Educators I 3 cr
MATH 2030 Math for Educators II 3 cr
MATH 3030 Math for Educators III 3 cr
“C” or better required

Health and Human Performance (2 credits):
HHP 1000 Fitness Assessment and Management 1 cr
HHP XXXX Physical Activity 1 cr
(see class schedule)

Humanities, Fine Arts and Historical Perspective
(12 credits):
Fine arts course 3 cr
Humanities literature course 3 cr
HISTORY 1020 World Civilization II 3 cr
In-depth humanities, fine arts or historical perspective course
2000 level or above 3 cr

Social Sciences (9 credits):
POLISCI 1230 Introduction to American
Government (required) 3 cr
GEOGRAPHY 3330 Environmental Conservation
(required) 3 cr
In-depth social sciences course 2000 level or above 3 cr

Natural Sciences (8 credits):
Biological science lab course 4-5 cr
Physical science lab course (required):
select from chemistry, geography, geology,
physics or physical science

International Education/Ethnic and Gender
Studies (6-9 credits):
HISTORY 1020 World Civilization II 3 cr
(double counts as historical perspective and international
education)
TEACHING 3630 Ethnic/Gender Equity in Education 3 cr
(counts for both ethnic and gender studies plus professional
education)

Professional Education–Ages 10-14
(52 credits)
Grade of “Cs” or better in all courses listed below:
HHP 2030 Health Education 2 cr
or
TEACHING 1010 Middle-Level Mentoring 2 cr
TEACHING 1230 Introduction to Education 2 cr
TEACHING 2010 Educational Media Theory 2 cr
TEACHING 2020 Middle-Level Exploratory I 1 cr
TEACHING 2030 Middle-Level Exploratory II 1 cr
TEACHING 2130 Human Growth and Development 3 cr
TEACHING 3320 Introduction to Inclusion 3 cr
TEACHING 3630 Ethnic/Gender Equity in Education 3 cr
TEACHING 4050 Middle-Level Professional Preparation 18 cr
TEACHING 4070 Post-Student Teaching Seminar 2 cr
TEACHING 4460 Student Teaching 12 cr

TEACHING 4990 Licensure Portfolio 3 cr
G.P.A. 2.75 or better

Minors–Ages 10-14 (24-48 credits)
G.P.A. 2.75 or better and grade of “C-“ or better in content area courses
Interdisciplinary Studies Minor or Minors in Two Academic Areas
The interdisciplinary studies minor provides students majoring in
early adolescence with the necessary depth and breadth in the core
academic areas they will be licensed to teach. Students choose
two areas of concentration (18 credits each) and two other areas
in which they complete 12-credit options. Core academic areas
include English/language arts, social sciences, mathematics,
and science. Additional study in fine arts and foreign language is
possible. A program checklist for this minor is available from
the School of Education office.

Early Adolescence/Adolescence –
Ages 10-21

Middle/Secondary Education Requirements
Credit requirement for graduation ..... 120 credits and up
General education.........................................43-53 credits
Major/minor .................................................36-60 credits
Professional education...................................47-56 credits
Range of total credits for completion......126-165 credits

General Education–Ages 10-21
(43-53 credits)

Communication (8-9 credits):
ENGLISH 1130 Freshman Composition I 3 cr
ENGLISH 1230 Freshman Composition II 3 cr
Entry Year Experience 1 cr
SPEECH 1010 Public Speaking (acceptable) 2 cr
or
SPEECH 2010 Speech Communication for Teachers 3 cr
(recommended)
Writing Emphasis 6 cr
“C” or better required

Foreign Language (0-8 credits):
Students who have not averaged “C” or better in a second year
high school language have not met this requirement. Check the
catalog for specific requirements.

Math (3 credits):
MATH at or above 1630 3 cr

Health and Human Performance (2 credits):
HHP 1000 Fitness Assessment and Management 1 cr
HHP XXXX Physical Activity 1 cr
(see class schedule)
TEACHING 4760 Internship 12 cr
**Humanities, Fine Arts and Historical Perspective (12 credits):**

Fine arts course (required) 3 cr
Humanities literature course (required) 3 cr
HISTORY 1020 World Civilization II (required) 3 cr
In-depth humanities, fine arts or historical perspective course
2000 level or above 3 cr
Social Sciences (9 credits):
POLISCI 1230 Introduction to American Government (required) 3 cr
Social sciences course in second discipline 3 cr
(Note: GEOGRAPHY 3330 Environmental Conservation is required for social science and science majors and minors.)
In-depth social science course in either one subject from above in this list, 2000 level or above 3 cr

or
PSYCHLGY 1130 General Psychology 3 cr
and
PSYCHLGY 3230 Adolescent Psychology 3 cr

Natural Sciences (8 credits):
Biological science lab course (required) 4-5 cr
Physical science lab course (required): 4-5 cr
select from chemistry, geography, geology, physics or physical science

International Education/Ethnic and Gender Studies (6-9 credits):
HISTORY 1020 World Civilization II 3 cr
(double counts as historical perspective and international education)
TEACHING 3630 Ethnic/Gender Equity in Education 3 cr
(counts for both ethnic and gender studies plus professional education)

Major/Minor—Ages 10-21 (36-60 credits)

See appropriate department listings for required courses (G.P.A. 2.75 or better required in these courses and grade of “C” or better in content area courses).

Professional Education—Ages 10-21 (47-56 credits)

Required Courses:

TEACHING 1230 Introduction to Education 2 cr
TEACHING 2010 Educational Media Theory 2 cr

TEACHING 2130 Human Growth and Development 3 cr
or
PSYCHLGY 3230 Adolescent Psychology

TEACHING 3320 Introduction to Inclusion 3 cr
TEACHING 3630 Ethnic/Gender Equity in Education 3 cr
TEACHING 3840 Reading in the Content Area 4 cr
 Methods of Teaching Major/Minor 3-6 cr
for Middle/Secondary Students

Methods of Teaching Major/Minor 3-6 cr

TEACHING 4460/4560 Student Teaching 12 cr
or
TEACHING 4760 Internship 12 cr

TEACHING 4990 Licensure Portfolio 3 cr
Grade of “C” or better required

Must complete Option A or B

Option A (12 credits):

TEACHING 3110 Key Concepts in Middle Level Education 2 cr

TEACHING 3120 Characteristics of Transcients 2 cr
TEACHING 4020 Educational Media Application 2 cr
TEACHING 4210 Pre-Student Teaching 2 cr

TEACHING 4220 Advising, Interaction, and Communication 2 cr
TEACHING 4620 Teaching Transcients 2 cr

Option B (18 credits):

TEACHING 4050 Middle-Level Professional Preparation 18 cr

Early Childhood/Adolescence—Birth-Age 21

Special Fields Requirements
Credit requirement for graduation ..... 120 credits and up
General education ........................................ 43-49 credits
Major ..................................................... 36 credits and up
Professional education ........................... 39-49 credits

General Education—Birth-Age 21 (43-49 credits)

Communication (8-9 credits):
ENGLISH 1130 Freshman Composition I 3 cr
ENGLISH 1230 Freshman Composition II 3 cr
Entry Year Experience 1 cr
SPEECH 1010 Public Speaking (acceptable) 2 cr
SPEECH 2010 Speech Communication for Teachers (recommended) 3 cr
Writing Emphasis “C” or better required 6 cr

Foreign Language (0-8 credits):
Students who have not averaged “C” or better in a second year high school language have not met this requirement. Check the catalog for specific requirements.

Math (3 credits):
MATH at or above 1630 3 cr

Health and Human Performance (2 credits):

HHP 1000 Fitness Assessment and Management 1 cr
HHP XXXX Physical Activity (see class schedule) 1 cr

Humanities, Fine Arts and Historical Perspective (12 credits):
Fine arts course (required) 3 cr
Humanities literature course (required) 3 cr
HISTORY 1020 World Civilization II (required) 3 cr
In-depth humanities, fine arts or historical perspective 3 cr
2000 level or above

Social Sciences (9 credits):
POLISCI 1230 Introduction to American Government 3 cr
(required)
Social sciences course in second discipline 3 cr
(Note: GEOGRAPHY 3330 Environmental Conservation is required for agricultural education majors.)
In-depth social sciences course 2000 level or above 3 cr

Natural Sciences (8 credits):
Biological science lab course (required) 4-5 cr
Physical science lab course (required): 4-5 cr
select from chemistry, geography, geology, physics or physical science
International Education/Ethnic and Gender Studies (6-9 credits):
HISTORY 1020 World Civilization II 3 cr
(double counts as historical perspective and international education)
TEACHING 3630 Ethnic/Gender Equity in Education 3 cr
(counts for both ethnic and gender studies plus professional education)

Major/Minor—Birth-Age 21 (credits vary)
G.P.A. 2.75 or better and grade of "C" or better in content area courses
See appropriate department listings for required courses.

Professional Education—Birth-Age 21 (39-49 credits)
Required Courses (30+ credits):
TEACHING 1230 Introduction to Education 2 cr
TEACHING 2010 Educational Media Theory 2 cr
TEACHING 2130 Human Growth and Development 3 cr
TEACHING 3320 Introduction to Inclusion 3 cr
TEACHING 3630 Ethnic/Gender Equity in Education 3 cr
Methods of Teaching Major 3+ cr
TEACHING 4660 Student Teaching 12 cr
or
TEACHING 4760 Internship 12 cr
TEACHING 4990 Licensure Portfolio 3 cr
G.P.A. 2.75 or better; grade of "C" or better in all courses

Must complete Option A, B or C
(Note: This does not apply to health and human performance.)
Option A (8 credits):
TEACHING 4020 Educational Media Application 2 cr
TEACHING 4210 Pre-Student Teaching 2 cr
TEACHING 4220 Advising, Interaction and Communication
TEACHING 4620 Teaching Transcends 2 cr

Option C (18 credits):
TEACHING 4050 Middle-Level Professional Preparation 18 cr

Counseling Psychology
www.uwplatt.edu/counseling-psychology
Program Contact: Karen Stinson, Ed.D.
Office: 139 Doudna Hall
Phone: 608.342.1131 or 608.342.1252
E-mail: stinsonk@uwplatt.edu
Lecturer:
Kori Cherney
Eddie Santiago
Elisabeth Pugliese
About the Counseling Psychology Program
The School of Education offers a counseling psychology program that is primarily responsible for preparing students for a Master of Science in Education degree in school counseling, mental health counseling, and higher education. Undergraduate course offerings also support the teacher education curricula and are valuable to undergraduate students interested in careers working with people. More information can be obtained by calling the department or visiting its website.

Option B (12 credits):
TEACHING 3110 Key Concepts in Middle Level Education 2 cr
TEACHING 3120 Characteristics of Transcends 2 cr
DEPARTMENT OF CRIMINAL JUSTICE

www.uwplatt.edu/cj

Interim Department Chair: Michael Dalecki
Office: 1174 Ullsvik Hall
Phone: 608.342.1807
E-mail: dalecki@uwplatt.edu

Professors:
Cheryl Banachowski-Fuller
Thomas E. Caywood

Associate Professors:
Sabina Burton

Assistant Professors:
Lorne Gibson
Amy Nemmetz
Patrick Solar
Rex Reed
Valerie Stackman

Lecturers:
Dana Cecil
Steve Elmer
Deborah Rice
Edward Ross

Academic Department Associate:
Sheri Kratcha

Mission Statement

The faculty of the UW-Platteville Department of Criminal Justice recognizes its mission as three-fold. First and foremost, the department is dedicated to providing its majors with the best possible education in criminal justice by providing them with a critical understanding of the total system of criminal justice and the society in which it functions. At the same time, as part of the College of Liberal Arts and Education, we are committed to preparing our students to move successfully into criminal justice careers or post-graduate work as liberally educated, intellectually aware and culturally sensitive men and women.

Second, the department is dedicated to providing students throughout the university with opportunities to examine critically the broad questions of how justice is administered in American society and to confront firsthand the fundamental issues of criminal justice which they will face as involved citizens.

Finally, the department is dedicated to providing the expertise of its faculty as a resource to assist criminal justice and social service agencies in the realms of applied research, policy development, training, and planned change to meet the social and technological challenges of the 21st century.

Objectives

Educational Outcomes/Learning Objectives:

Graduates of the criminal justice program should:

1. exhibit an understanding of fundamental concepts related to the interrelationship of various components within the criminal justice system (i.e., law enforcement, courts, and corrections)
2. apply criminological theories in explaining criminal behavior and the criminal justice process
3. demonstrate their ability to formulate a problem/topic, assemble relevant research and resources, and synthesize the data in a manner to constitute a formal proposal or research paper
4. analyze and evaluate social, cultural, and technological change and its impact on the criminal justice system
5. understand, analyze, and critically evaluate social research
6. display a working knowledge of qualitative and quantitative research methods
7. demonstrate in-depth knowledge of substantive areas within the discipline of criminal justice
8. apply their knowledge toward further study and careers

About the Department and Majors

The major in criminal justice provides a basic understanding of the criminal justice system and the society in which it functions. The first 60 credits are composed primarily of general education courses to develop a broad educational background, along with the first three core criminal justice courses. After completion of 60 credits, in-depth knowledge can be obtained by careful selection of courses in policing, corrections, criminological theory, law, forensic investigation, AODA counseling, and private security.

The forensic investigation major provides a thorough practical
and theoretical study to the application of science within the investigative process. Students will explore the role that science plays in recognizing, documenting, collecting, and preserving physical evidence at crime scenes, and how this evidence is evaluated within a courtroom setting.

The UW-Platteville Criminal Justice Department has received national recognition for the superior quality of its internship programs. As a result, participation in internship programs is competitive. The criminal justice department reserves the right to refuse a student an internship if the department decides that the student is not a suitable candidate on the basis of scholarship, verbal ability, or character. To be eligible for internship, the student must have earned at least 60 credits plus 12 upper division criminal justice/forensic investigation credits, a 2.25 G.P.A., and a passing score on the department’s writing certification requirement.

The UW-Platteville Departments of Chemistry and Engineering Physics, Biology and Criminal Justice cooperate in preparing students interested in becoming crime laboratory analysts.

In cooperation with the UW-Platteville Department of Psychology and the Counseling Psychology Graduate Program, undergraduate criminal justice majors can obtain AODA (alcohol and other drug abuse) certification.

The UW-Platteville Departments of Criminal Justice and Psychology also cooperate in the social work certification process.
General Requirements

Bachelor of Science Degree
Total for graduation..........................120 credits
General education ..............................44-58 credits
Major studies ....................................36 credits

Bachelor of Arts Degree
Total for graduation..........................120 credits
General education ..............................44-58 credits
Major studies ....................................36 credits
Bachelor of Arts supplement .................4-6 credits

Bachelor of Arts Supplement
Students must choose one of two options.

Option One (6 credits)
Required Courses (6 credits, 3 credits per discipline):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHLSPHY 2330</td>
<td>Origins of Western Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2430</td>
<td>Philosophy in the Modern World</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2530</td>
<td>Ethics</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3430</td>
<td>Social Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3630</td>
<td>Philosophy of Law</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 2430</td>
<td>American Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 2530</td>
<td>American Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3140</td>
<td>Any English course from 3140</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3120</td>
<td>Any history course from 3120</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Option Two (4 credits)
Required Courses (4 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 2040</td>
<td>Intermediate French</td>
<td>4 cr</td>
</tr>
<tr>
<td>GERMAN 2240</td>
<td>Intermediate German</td>
<td>4 cr</td>
</tr>
<tr>
<td>SPANISH 2840</td>
<td>Intermediate Spanish</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Criminal Justice Major (36 credits)
Students cannot double major in criminal justice and forensic investigation, but can major in one and minor in the other.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 1130</td>
<td>Introduction to Criminal Justice</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 2130</td>
<td>The Police Function</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 2230</td>
<td>Correctional Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4030</td>
<td>Criminal Law</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4930</td>
<td>Criminal Justice Seminar</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives in criminal justice 21 cr

3. must earn a “C” or better in each core course before going on to the next

In addition, each major must earn a “C” or better in ENGLISH 1130 and ENGLISH 1230 and pass the departmental writing proficiency exam before taking upper division criminal justice courses.

In addition to the social science requirements of the university, all criminal justice majors must either complete at least six credits each in psychology, sociology and political science; or complete a minor or second major in any discipline.

Criminal Justice Emphases
Emphases within the major. Students may select one of the two emphases within the criminal justice major. Students are not required to select an emphasis. Students who do not want an emphasis may select 15 to 21 credits of electives from criminal justice courses.

Law Enforcement Emphasis (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 2930</td>
<td>Interviewing</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 3130</td>
<td>Criminal Investigations</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4130</td>
<td>Police Community Relations</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (4-6 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 3330</td>
<td>Police Administration</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4330</td>
<td>Procedure and Evidence</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4630</td>
<td>Current Topics</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

Corrections Emphasis (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 3530</td>
<td>Correctional Institutions</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 3630</td>
<td>Juvenile Justice</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4230</td>
<td>Community-Based Corrections</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (4-6 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 2930</td>
<td>Interviewing</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 3930</td>
<td>Law of Corrections</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4630</td>
<td>Current Topics</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

Forensic Investigation Major

Bachelor of Science

Students cannot double major in criminal justice and forensic investigation, but can major in one and minor in the other.

General Education Requirements
The general education requirements describe the core courses all students must take in order to graduate.

Total general education credits................. 43-58*

(*depends upon high school foreign language courses completed, scores on the UW System Mathematics and English Placement tests, and whether courses selected for international education and ethnic/gender studies also count for other liberal arts requirements)

Program Requirements for Graduation
Student must earn a “C” or better in ENGLISH 1130 and ENGLISH 1230 and pass the departmental writing proficiency exam before taking upper division criminal justice and forensic investigation courses.
Non-Departmental Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH</td>
<td>Technical Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY+</td>
<td></td>
<td>4-5 cr</td>
</tr>
<tr>
<td>CHEMSTRY+</td>
<td></td>
<td>4-5 cr</td>
</tr>
</tbody>
</table>

(+) in addition to general education requirements)

Criminal Justice Departmental Core Requirements
(Grade of "C" or higher required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS</td>
<td>Introduction to Criminal Justice</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS</td>
<td>Research Methods in Criminal Justice</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS</td>
<td>Criminal Law</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Forensic Investigation Requirements
(Grade of "C" or higher required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORENSIC</td>
<td>Introduction to Crime Scene Investigation</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Fingerprint Classification and Development</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Evidence Collection and Preservation</td>
<td>2 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Investigative Photography</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Crime Scene Processing Techniques (w/Lab)</td>
<td>4 cr</td>
</tr>
<tr>
<td>CRIMLJUS</td>
<td>Criminal Investigations</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Criminalistics (w/Lab)</td>
<td>5 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Courtroom Testimony and Evidence</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Forensic Investigation Seminar</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Forensic Investigation Electives (6 credits minimum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS</td>
<td>The Police Function</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS</td>
<td>Interviewing</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Directed Individual Studies</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Current Topics in Forensic Investigation</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Honors Research in Forensic Investigation</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC</td>
<td>Internship in Forensic Investigation</td>
<td>8 cr</td>
</tr>
</tbody>
</table>

Internship Eligibility
To be eligible for an internship, the student must have earned at least 60 credits plus 12 upper division criminal justice/forensic investigation credits, have a G.P.A. of 2.25 or higher, and have achieved a passing score on the department's writing proficiency examination.

DEPARTMENT OF GEOGRAPHY

www.uwplatt.edu/geography

Contact: Marsha Weaver
Office: 261 Gardner Hall
Phone: 608.342.6060
E-mail: weaverma@uwplatt.edu

Professor: J. Elmo Rawling
Associate Professors: H. Todd Stradford
Mari A. Vice

Research Associate: 152

Geography is the study of the Earth: its physical processes, peoples, societies, and cultures. Geography is a "big picture" discipline that serves as an important connection among the social, physical, and mathematical sciences, as well as humanities. It incorporates aspects of many other fields such as geology, history, biology, and

Assistant Professors:
Evan Larson
L. Lynnette Dornak

Lecturer:
James Valiga

Adjunct:
Dong Isbister anthropology. Given this, geographers are ideally suited to address some of the world's most pressing problems, such as addressing global climate change, assessing the impacts of social policies, mediating debates over land use and sustainable development, and assessing the interactions between nature and society.
General Requirements

Graduates will:

1. Student responsibility in the 21st century
2. Think technologically global, physical, and human patterns and process them to critically
   and
3. The Mission (travel for careers)
   and
4. Degrees of care and careers. The interactions, and geographic
   environments, on the major world regions, nature and society
5. A major in geography offers broad training in physical and human
   environments, on the major world regions, nature and society
   interactions, and geographic techniques. Upon graduation,
   geographers have diverse knowledge applicable to a wide range of
   careers. The largest employers of geographers with bachelor’s
   degrees are federal, state, and local governmental agencies, as
   well as educational systems. Geography offers important skills
   for careers in planning, market analysis, economic development,
   travel-tourism, teaching, criminal justice, agriculture, environmental
   studies, natural resource management, international affairs, spatial
   data analysis, cartography, and geographic information systems.

Mission Statement

The goal of this major is to train students to analyze global issues
like a geographer, that is, to take the physical processes and/or
human interactions of the Earth and integrate them over space
and time. Geography will prepare students to use knowledge about
global, physical, and human patterns and process them to critically
analyze and solve current geographical issues, including global
warming, conservation, globalization, terrorism, and technology
advances. This program fosters scientific, cultural, and
and technological literacies that will prepare geography students to
think and act with professional, personal, civic, and social
responsibility in the 21st century.

Student Learning Outcomes

Graduates will:

1. Recognize the unique subject and methods of geography
   and be able to use geographical concepts contributing to the
   solution of societal and environmental problems
2. Understand the processes and patterns of the physical
   world and how human actions impact and interact with
   natural systems
3. Develop a perspective that allows them to understand
   spatial variation and diversity on global, regional, and local
   scales
4. Have the skills to read, interpret, use, and make maps and
   be able to solve and communicate spatial problems using
   geographic technologies
5. Have the ability to conduct, process, prepare, and present
   empirical geographic research at a fundamental level
6. Have knowledge of the potential career opportunities for
   geographers

General Requirements

Bachelor of Science Degree

Total for graduation: 120 credits
General education: 44-58 credits
Major studies: 37-43 credits

Students must have a cumulative grade point average of 2.50
within the major studies for graduation.

Bachelor of Arts Degree

In addition to the Bachelor of Science requirements, students
must complete nine supplemental credits in a foreign language.

Geography Major (37-43 credits)

Required Core Courses (six classes/19 credits):

- One regional geography course* 3 cr
- One human geography course* 3 cr
- One physical geography course* 4 cr
- One environmental geography course* 3 cr
- One geographic techniques course* 3 cr
- GEOGRPHY 4030 Geography Seminar 3 cr

*Students may fulfill these requirements using any course in the
appropriate focus area so long as they meet any applicable
prerequisites or have permission from the instructor.

Additional geography courses in any area of focus (six
classes/18-24 credits):

Physical Geography Focus

GEOGRPHY 1040 Planet Earth 4 cr
GEOGRPHY 1140 Global Landforms 4 cr
GEOGRPHY 1240 Weather and Climate 4 cr
GEOGRPHY 1370 Global Vegetation 4 cr
GEOGRPHY 3340 Biogeography 4 cr
GEOGRPHY 3550 Process Geomorphology 4 cr
GEOGRPHY 4840 Soil Geomorphology 4 cr

Human Geography Focus

GEOGRPHY 1050 Introduction to Human Geography 3 cr
GEOGRPHY 1230 Survey of Cultural Geography 3 cr
GEOGRPHY 3030 Economic Geography 3 cr
GEOGRPHY 3170 Space, Place, and Gender 3 cr
GEOGRPHY 4230 Political Geography 3 cr
GEOGRPHY 4350 Gender Relations in Cross-Cultural Perspective 3 cr

Nature and Society Focus

GEOGRPHY 3330 Environmental Conservation 3 cr
GEOGRPHY 3850 Geography of the National Parks 3 cr
GEOGRPHY 4150 Climate Change 3 cr

Geographic Techniques Focus

GEOGRPHY 2230 GIS: Thematic Mapping 4 cr
GEOGRPHY 3230 Introduction to Geographic Information Systems 4 cr
GEOGRPHY 3520 Remote Sensing and Photogrammetry 3 cr
GEOGRPHY 3720 GIS: Digital Image Analysis 3 cr
GEOGRPHY 4330 Advanced GIS & GPS 4 cr

Regional Focus

GEOGRPHY 1330 World Regional Geography 3 cr
GEOGRPHY 3130 Geography of the United States and Canada 3 cr
GEOGRPHY 3350 Geography and Development of the Middle East 3 cr
GEOGRPHY 3430 Geography of Africa 3 cr
Field Experiences Focus

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGPHY 2250</td>
<td>Tropical Marine Ecosystems</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGPHY 3120</td>
<td>Geography of Wisconsin</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGPHY 3750</td>
<td>Field Geography of the Western United States</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>GEOGPHY 3960</td>
<td>Geography of Japan</td>
<td>6 cr</td>
</tr>
<tr>
<td>GEOGPHY 4760</td>
<td>Geography Field Study</td>
<td>1-8 cr</td>
</tr>
</tbody>
</table>

Electives (only six credits count toward major):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 2230</td>
<td>Soils</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 3330</td>
<td>Soil Morphology and Classification</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 2420</td>
<td>Fundamentals of Biological Investigations</td>
<td>2 cr</td>
</tr>
<tr>
<td>ENGLISH 3000</td>
<td>Technical Writing</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Environmental Science Minor (24 credits)

The environmental science minor is an interdisciplinary program designed to give students, particularly those in the natural sciences, a broad understanding of the relationship of humans to the environment and the processes that occur in the natural environment. Environmental science has become an essential component of a wide variety of fields and in a variety of careers, and its importance will only increase in the future. This minor will help prepare students to respond to the demands of environmental understanding increasingly expected of 21st-century people.

Fields of emphasis include physical geography, environmental biology, and environmental conservation. The minor includes a common set of general education requirements and core courses that cover a broad range of geographic, biological, and social science topics. Additional courses are required to complete the minor.

Environmental Science Minor (24 credits)

**Core Courses (9 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGPHY 3330</td>
<td>Environmental Conservation</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3450</td>
<td>Ecology and Evolution*</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4030</td>
<td>Environmental Law</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**One Physical Processes Course from (4 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGPHY 1140</td>
<td>Global Landforms</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOLOGY 1140</td>
<td>Physical Geology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**Five credits of Chemistry chosen from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 1050</td>
<td>General Chemistry</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1140/1240</td>
<td>General Chemistry Sequence</td>
<td>8 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1450</td>
<td>Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
</tbody>
</table>

**Electives (minimum 6 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGPHY 1240</td>
<td>Weather and Climate</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGPHY 1370</td>
<td>Global Vegetation</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGPHY 3230</td>
<td>Introduction to Geographic Information Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGPHY 3340</td>
<td>Biogeography</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGPHY 3750</td>
<td>Field Geography of the Western U.S.</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>GEOGPHY 3840</td>
<td>Soil Geomorphology</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHILOSHPY 2540</td>
<td>Science, Technology, and Ethics</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 2230</td>
<td>Soils</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOLOGY 3430</td>
<td>Hydrology</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3130</td>
<td>Environmental Chemistry</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 2450</td>
<td>Fungi, Algae, and Bryophytes</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 2640</td>
<td>Invertebrate Zoology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3030</td>
<td>Ornithology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3110</td>
<td>Fresh Water Biology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3230</td>
<td>Mammalogy</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3340</td>
<td>Entomology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3460</td>
<td>Ecological Methods and Research**</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3650</td>
<td>Plant Communities of Wisconsin</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3660</td>
<td>Animal Communities of Wisconsin</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4710</td>
<td>Selected Regional Habitats</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>CIVILENG 3340</td>
<td>Environmental Engineering</td>
<td>4 cr</td>
</tr>
<tr>
<td>CIVILENG 4300</td>
<td>Hydrology</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4310</td>
<td>Groundwater Hydrology</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

* Requires BIOLOGY 1650 Unity of Life and BIOLOGY 1750 Diversity of Life as prerequisites.

** Requires BIOLOGY 2420 Fundamentals of Biological Investigation as prerequisite.

Geographic Information Systems Minor (23 credits)

The minor in geographic information systems prepares students for current modern trends in geospatial technology, computerized mapping, digital image processing, and spatial analysis. The GIS minor requires one course in computer science (COMPUTER 1130), four courses in GIS and remote sensing, and six hours of upper division coursework in selected classes, either in geosciences, computer science or business.
The GIS minor incorporates dynamic changes in current advances in spatial sciences and technology. The students who complete a GIS minor significantly enhance their employment opportunities, especially in environmental consultation agencies, mapping technology industries, and surveying. The GIS minor pertains to any natural resource field, such as geology and biology, as well as social studies and business. A GIS minor combined with a computer science major is currently one of the most employable fields in geospatial analysis.

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**DEPARTMENT OF HEALTH AND HUMAN PERFORMANCE**

www.uwplatt.edu/health-human-performance

**Department Chair:** Colleen McCabe  
**Office:** 110 F Williams Fieldhouse  
**Phone:** 608.342.1796 or 608.342.1573  
**E-mail:** mccabec@uwplatt.edu

**Associate Professors:**  
Colleen McCabe  
Scott Ringgenberg

**Assistant Professor:**  
Matthew Rogatzki  
Scott Soja

**Lecturers:**  
Tom Antczak  
Samantha Birkicht  
Pam Connolly  
Ulrich Daeuber  
Lisa Emendorfer  
Renee Ringgenberg  
Susanna Swenson  
Tim Swenson

**University Services Associate:**  
Delores Trumpy

**About the Department of Health and Human Performance**  
Health and Human Performance offers a major in physical education with a state of Wisconsin 860 certification in Adapted Physical Education teaching endorsed by the Wisconsin Department of Public Instruction (DPI); 2) to produce health promotion specialists ready for a wide variety of programs utilizing wellness components. Currently we offer the health promotion specialist degree plan as an emphasis within the Health and Human Performance major. The health promotion emphasis prepares our graduates to serve as future wellness and fitness career professionals advocating for the development of positive health behaviors and facilitating preventative health care in private, corporate, and public wellness settings. In addition, graduates of the health promotion emphasis also use this undergraduate degree in preparation for acceptance into graduate exercise science programs; 3) to provide all university students the opportunity to develop positive concepts of wellness and skills to participate in lifetime wellness activities.

**Mission Statement**  
The mission of the Department of Health and Human Performance is threefold in nature: 1) to produce pre-service teacher candidates ready to implement “Best Practices” in Health, Physical Education, and Adapted Physical Education using the Wisconsin State Teaching Standards. By offering comprehensive programming in the teacher education degree plan we are diverse in meeting the needs of three different licensure certifications: K-12 Physical Education, Health Education, and Adapted Physical Education.

**Required Core Courses:**  
- **COMPUTER** 1130 Introduction to Programming 3 cr  
- **GEOGRAPHY** 2230 GIS: Thematic Mapping 3 cr  
- **GEOGRAPHY** 3230 Introduction to Geographic Information Systems 4 cr  
- **GEOGRAPHY** 3720 GIS: Digital Image Analysis 3 cr  
- **GEOGRAPHY** 4330 Advanced GIS & GPS 4 cr

**Electives (6 credits):**  
- **MATH** 1830 Elementary Statistics 3 cr  
- **GEOGRAPHY** 3520 Remote Sensing and Photogrammetry 3 cr  
- **GEOGRAPHY** 3560 Oceanography 4 cr  
- **GEOGRAPHY** 3670 Coastal Ecosystems 3 cr  
- **GEOGRAPHY** 3840 Soil Geomorphology 4 cr  
- **GEOGRAPHY** 4120 Topical Seminar 2-3 cr  
- **GEOGRAPHY** 4660 Cooperative Field Experience 1-8 cr
The teacher candidate will demonstrate appropriate levels of professional and ethical behaviors expected in physical activity, health and wellness settings.

**Health and Human Performance – Health Promotion SLO’s**

- The health promotion specialist will design effective plans for physical activity, health and wellness for individuals possessing a diverse range of ability and skill.
- The health promotion specialist will create a learning environment to support positive educational and training outcomes in physical activity, health and wellness settings.
- The health promotion specialist will employ a variety of instructional and training practices to facilitate learning physical activity, health and wellness concepts and skills.
- The health promotion specialist will demonstrate a proficient use of content-specific academic language.
- The health promotion specialist will demonstrate appropriate levels of professional and ethical behaviors expected in physical activity, health and wellness settings.

**General Requirements Bachelor of Science Degree**

Total for graduation: 136 credits

- General education: 41 credits
- Major HHP studies: 55 credits
- Professional education: 40 credits

**Health and Human Performances Major**

Grades of “C” or better in all courses required for physical education teaching certification. Students must have a 2.65 overall G.P.A. for admission to teacher education and 2.75 in major and professional education courses for admission to student teaching. Students must have an initial and an exit physical fitness assessment, four tests each, on file in order to graduate.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP 2020</td>
<td>First Aid</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 2030</td>
<td>Health Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 2080</td>
<td>Movement Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 2330</td>
<td>Adventure Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 2410</td>
<td>Team Sports</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 2430</td>
<td>Adventure Education Practicum</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 2510</td>
<td>Individual Sports</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3020</td>
<td>Physiology of Exercise</td>
<td>4 cr</td>
</tr>
<tr>
<td>HHP 3040</td>
<td>Adapted Aquatics</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3220</td>
<td>Teaching Sexuality and Drugs</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3330</td>
<td>Lifetime Activities</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3360</td>
<td>Fitness Evaluation</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3400</td>
<td>Outdoor Activities/ Water Safety Instruction</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3510</td>
<td>Assessment and Screening in Physical Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3720</td>
<td>Kinesiology</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 3830</td>
<td>Perceptual Motor Learning</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3850</td>
<td>Nutrition</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3920</td>
<td>Emotional Health</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 4320</td>
<td>Consumer Health</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 4330</td>
<td>Organization Administration and Curriculum of Physical Education and Health Education</td>
<td>4 cr</td>
</tr>
<tr>
<td>HHP 4520</td>
<td>Injury Prevention and Treatment</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 4940</td>
<td>Seminar in Community/ Environmental Health Education</td>
<td>3 cr</td>
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</tbody>
</table>

**Science Course (4 credits):**

<table>
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<th>Title</th>
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<tbody>
<tr>
<td>BIOLOGY 2340</td>
<td>Essentials of Anatomy</td>
<td>4 cr</td>
</tr>
<tr>
<td>or</td>
<td>Anatomy and Physiology (grade of “C” or better)</td>
<td>4 cr</td>
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**Professional Education Courses (25 credits):**

<table>
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<th>Course</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP 2320</td>
<td>Introduction to Physical Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3010</td>
<td>Technology in Health and Physical Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>OR</td>
<td>TEACHING 4020</td>
<td>Educational Media Application</td>
</tr>
<tr>
<td>HHP 3430</td>
<td>Teaching Exceptional Children in Health and Physical Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 3440</td>
<td>Elementary/Middle School Physical Education Methods</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3500</td>
<td>Methods in Teaching Health Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 4230</td>
<td>Methods in Middle/Secondary Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 4530</td>
<td>Practicum in Adapted Physical Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 2010</td>
<td>Educational Media Theory</td>
<td>1 cr</td>
</tr>
<tr>
<td>TEACHING 2130</td>
<td>Human Growth and Development</td>
<td>3 cr</td>
</tr>
<tr>
<td>OR</td>
<td>PSYCHLGY 3130</td>
<td>Child Psychology</td>
</tr>
<tr>
<td>OR</td>
<td>PSYCHLGY 3230</td>
<td>Adolescent Psychology</td>
</tr>
<tr>
<td>OR</td>
<td>TEACHING 3630</td>
<td>Ethnic and Gender Equity in Education</td>
</tr>
<tr>
<td>TEACHING 4660</td>
<td>B-21 Student Teaching</td>
<td>12 cr</td>
</tr>
<tr>
<td>TEACHING 4990</td>
<td>Licensure Portfolio</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**State of Wisconsin 860 Licensure/Adapted Physical Education (10 credits):**

The following courses will satisfy the DPI requirements for an 860 Physical Education/Special Education three-year licensure (licensure in adapted physical education):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP 3430</td>
<td>Teaching Exceptional Children in Health and Physical Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 3510</td>
<td>Assessment and Screening in Physical Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3830</td>
<td>Perceptual Motor Learning and Motor Development</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 4530</td>
<td>Practicum in Adapted Physical Education</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Health Education Minor (29 credits)**

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP 2020</td>
<td>First Aid/Accident Prevention/ Community CPR</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 2030</td>
<td>Health Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3220</td>
<td>Teaching Human Sexuality, Alcohol, and Other Drugs</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3430</td>
<td>Teaching Exceptional Children Health</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Recommended Coursework Outside of Physical Education (12 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 2330</td>
<td>Leadership and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2630</td>
<td>Introduction to Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3340</td>
<td>Management, Gender, and Race</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3010</td>
<td>Business Communication</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP 3010</td>
<td>Technology in Health and Physical Education</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Any selected minor must be approved by the advisor and the health and human performance department chair.

Recommended: Business Administration, Psychology, or Biology

Required Internships (14-18 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP 4850</td>
<td>Fitness Intern (I)</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 4860</td>
<td>Fitness Intern (II)</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 4870</td>
<td>Fitness Intern (off campus)</td>
<td>8-12 cr</td>
</tr>
</tbody>
</table>

Science Course (4 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 2340</td>
<td>Essentials of Human Anatomy and Physiology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Required Courses (53-56 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP 1000</td>
<td>Fitness Assessment Management</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP 2010</td>
<td>Aerobics/Hydroaerobics</td>
<td>1 cr</td>
</tr>
<tr>
<td>HHP 2020</td>
<td>First Aid</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 2030</td>
<td>Health Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 2320</td>
<td>Introduction to Physical Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 2510</td>
<td>Individual Sports</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3000</td>
<td>Level or above Elective</td>
<td>2 or 3 cr</td>
</tr>
<tr>
<td>HHP 3250</td>
<td>Principles of Strength</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 3250</td>
<td>Principles of Strength and Conditioning</td>
<td></td>
</tr>
<tr>
<td>HHP 3330</td>
<td>Lifetime Activities</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3360</td>
<td>Fitness Evaluation</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3380</td>
<td>Fitness Programming and Prescription</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3400</td>
<td>Outdoor Activities/ Water Safety Instruction</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3420</td>
<td>Health Promotion at the Worksite</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 3500</td>
<td>Methods of Teaching Health Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 3720</td>
<td>Kinesiology</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 3850</td>
<td>Nutrition</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 4320</td>
<td>Consumer Health</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 4330</td>
<td>Organization, Administration, and Curriculum of Physical Education and Health Promotion</td>
<td>4 cr</td>
</tr>
<tr>
<td>HHP 4410</td>
<td>Seminar in Health Promotion</td>
<td>3 cr</td>
</tr>
<tr>
<td>HHP 4520</td>
<td>Injury Prevention/Treatment</td>
<td>2 cr</td>
</tr>
<tr>
<td>HHP 4620</td>
<td>Advanced Athletic Training</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

In order to be assigned to an off-campus internship, the student must meet the following criteria:

1. Senior standing
2. GPA 2.75 or higher in major/minor and professional courses.
3. Attainment of grade "C" or better in all health and human performance courses
4. Attainment of grade "C" or better in BIOLOGY 2340 or BIOLOGY 2140
5. Successful completion of Level I and II internship.
DEPARTMENT OF HISTORY

www.uwplatt.edu/history

Contact: Melissa Gormley
Office: 144 Gardner Hall
Phone: 608.342.6111
E-mail: gormleym@uwplatt.edu

Academic Department Associate:
Becky Savoy

Professors:
David Krugler
Nancy Turner

Associate Professors:
Melissa Gormley
Joong-Jae Lee
Adam Stanley

Assistant Professors:
Andrey Ivanov
Eugene Tesdahl

Senior Lecturers:
Ruth Alcalay
Delbert Carey
Tracey Roberts

Lecturer:
Scott Gurman

History majors can find work in many fields. Some are directly related to the subject matter of history, such as museums and archive work, teaching, documentary filmmaking, or historical publishing. Others use the skills that the study of history cultivates. History is a liberal arts degree that provides the basis for work in business, advertising, journalism, public relations, public administration, planning and research, and professional fields, such as law.

Mission
The history program enables its majors to become broader in perspective, more literate, intellectually more astute, ethically more sensitive, and to participate wisely in society as competent professionals and knowledgeable citizens. Our students understand the complexity of the factors and forces that can cause historical change, and they are able to analyze and evaluate historical narratives that explain change. Students develop skills in reading, writing, analysis, and logic. History majors learn to do research using written documents, assess arguments, and to interpret economic, social, political, cultural, and technological change in a variety of contexts.

Goals and Objectives
Students will:
1. write historical essays with a clear and focused thesis, developed by a logical argument and substantiated with factual detail
2. undertake historical research projects based on primary and secondary sources in both print and electronic formats, including the formulation of historically significant questions, gathering of appropriate sources, and application of appropriate methods of analysis and synthesis
3. critically analyze works of history by demonstrating an understanding of a work’s assumptions, method, sources, and point of view, and evaluating its argument

About the History Program and Major
The UW-Platteville Department of History offers a major and minor in history and a social sciences comprehensive major and minor with a history emphasis. History is the systematic study of the past. It is also the foundation discipline within the liberal arts and the source of the social sciences. Understanding the past helps us understand human nature, broadens our perspectives, refines our judgments, and provides insight into contemporary issues. The study of history is basic to our personal uniqueness, our professional identity, and our civic lives.

Students of history learn important skills. The study of history requires students to read, write, analyze, and use logic. Students learn to do research using written documents, assess arguments, and to interpret economic, social, political, cultural, and technological change in a variety of contexts.

General Requirements
Bachelor of Arts Degree
Total for graduation.......................... 120 credits
General education ............................. 44-58 credits
Major studies ..................................... 39 credits

Students must have a cumulative grade point average of 2.50 within the major studies for graduation.

History Major (39 credits)
Students must take the following required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY</td>
<td>1010 World Civilization I</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>1020 World Civilization II</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>1330 U.S. History to 1877</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>1430 U.S. History since 1877</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>4900 Historiography and Research Methods</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Choose two of the following U.S. History courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 3010</td>
<td>Race, Gender, and U.S. Labor History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3080</td>
<td>American Military History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3120</td>
<td>American Colonial History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3130</td>
<td>The New Nation</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3140</td>
<td>The Civil War and Reconstruction</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3150</td>
<td>Gilded Age and Progressive Era</td>
<td>3 cr</td>
</tr>
<tr>
<td>History    3160</td>
<td>U.S. Legal History of Race and Gender</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3230</td>
<td>The West in American History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3240</td>
<td>African-American History 1619</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Choose two of the following European History courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 3610</td>
<td>British Isles to 1714</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3620</td>
<td>British Isles since 1714</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3700</td>
<td>Women in European Civilization</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3710</td>
<td>Ancient Civilizations</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3730</td>
<td>Medieval Europe</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3740</td>
<td>Renaissance and Reformation Europe</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3810</td>
<td>Early Modern Europe</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3830</td>
<td>French Revolution and Napoleon</td>
<td>3 cr</td>
</tr>
<tr>
<td>History    3850</td>
<td>Twentieth Century Europe</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3860</td>
<td>History of Western Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3870</td>
<td>Nazi Germany and the Holocaust</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3880</td>
<td>Modern European Thought</td>
<td>3 cr</td>
</tr>
<tr>
<td>History    3890</td>
<td>History of Science and Technology in Europe</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Choose one of the following Non-Western courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 3460</td>
<td>Modern Africa</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3640</td>
<td>Imperialism in Africa and Asia</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3650</td>
<td>Women and Gender in Latin American History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3660</td>
<td>Colonial Latin America</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3670</td>
<td>Modern Latin America</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3920</td>
<td>Modern Middle East</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3950</td>
<td>Modern Japan</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3970</td>
<td>Modern China</td>
<td>3 cr</td>
</tr>
<tr>
<td>History    4230</td>
<td>Issues in History (Non-Western topics)</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Students may also enroll in:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 4660</td>
<td>Cooperative Field Experience</td>
<td>1-8 cr</td>
</tr>
<tr>
<td>HISTORY 4720</td>
<td>Independent Research in History</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

History majors must demonstrate competence in writing. See the department contact person for procedures.

History Minor (24 credits)

Students must take the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 1010</td>
<td>World Civilization I</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 1020</td>
<td>World Civilization II</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 1330</td>
<td>U.S. History to 1877</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 1430</td>
<td>U.S. History since 1877</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

From the courses listed under history major above, choose:
One U.S. history course
One European history course
One Non-Western course, and
One other course as an elective

Social Sciences Comprehensive

www.uwplatt.edu/social-sciences-comprehensive

Contact: Nancy Turner
Office: 152 Gardner Hall
Phone: 608.342.1789
E-mail: turnern@uwplatt.edu

About the Social Sciences Comprehensive Program and Major

Note: Some emphases are administered by departments other than the UW-Platteville Department of Social Sciences. For simplicity, however, all emphases and their requirements are listed in this section.

History Emphasis

Contact: Nancy Turner
Office: 152 Gardner Hall
Phone: 608.342.1789
E-mail: turnern@uwplatt.edu

Psychology Emphasis

Contact: Elizabeth Gates
Office: 231 Warner Hall
Phone: 608.342.1724
E-mail: gatese@uwplatt.edu

The social sciences comprehensive major includes coursework in economics, geography, history, political science, sociology, and psychology. A minor in history or psychology is required; this is considered the area of emphasis. Students who wish to major in a broad liberal arts program will find it within the social sciences comprehensive major.

Students who plan to teach will also find the social sciences comprehensive major useful. (Additional information appears below.)

Mission

Our program provides majors with a broad grounding in the social sciences and the equivalent of a minor in history.

Social sciences is not a discipline in itself, but combines many disciplines. Therefore it provides no unique skills and concepts separate from those offered by economics, history, psychology, political science, and sociology.

In addition to the broad liberal arts education provided by each of the component disciplines, the social sciences comprehensive major with an emphasis in history prepares social sciences instructors to teach in the public school system.
Goals and Objectives
Goals and objectives specific to each discipline are assessed as part of the assessment of the individual disciplines. The unique goal of the social sciences comprehensive major with an emphasis in history is to provide a broad knowledge of social science and history facts and concepts.

General Requirements
Bachelor of Arts Degree
Total for graduation..........................120 credits
General education.............................44-58 credits
Major studies....................................varies

Students must have a cumulative grade point average of 2.50 within the major studies for graduation.

History Emphasis (60 credits)

History Required Courses (24 credits):
HISTORY 1010 World Civilization I 3 cr
HISTORY 1020 World Civilization II 3 cr
HISTORY 1330 U.S. History to 1877 3 cr
HISTORY 1430 U.S. History since 1877 3 cr

Twelve additional credits: two U.S. history, one European history, one non-Western history; 36 credits from the following list (30 are required, six are electives)

Geography Required Courses:
GEOGRPHY 1330 World Regional Geography 3 cr
GEOGRPHY 3330 Environmental Conservation 3 cr

One of the following may be used as an elective:
GEOGRPHY 1050 Introduction to Human Geography 3 cr
GEOGRPHY 1250 Survey of Cultural Geography 3 cr
GEOGRPHY 3170 Space, Place, and Gender 3 cr
GEOGRPHY 3630 Geography of Latin America 3 cr
GEOGRPHY 3930 Geography of Asia 3 cr
GEOGRPHY 4530 Historical Geography of the United States 3 cr

Economics Required Courses:
ECONOMIC 2130 Principles of Macroeconomics 3 cr
ECONOMIC 2230 Principles of Microeconomics 3 cr

One of the following may be used as an elective:
ECONOMIC 2260 Economics and Western History II 3 cr
ECONOMIC 2940 Political Economy of Race, Gender, and Ethnicity 3 cr

Political Science Required Courses:
POLISCI 1130 Introduction to Politics 3 cr
or
POLISCI 1330 International Relations 3 cr
POLISCI 1230 Introduction to American Government 3 cr

One of the following may be used as an elective:
POLISCI 1330 International Relations 3 cr
POLISCI 2430 Comparative Politics 3 cr
POLISCI 2940 Political Economy of Race, Gender, and Ethnicity 3 cr
POLISCI 3530 State and Local Government 3 cr
POLISCI 3720 Politics of the Global Economy 3 cr

Psychology Required Courses:
PSYCHLG 1130 General Psychology 3 cr
PSYCHLG 3530 Social Psychology 3 cr

The following may be used as an elective:
PSYCHLG 2530 Psychology of Women 3 cr
PSYCHLG 3630 Psychology of Human Sexuality 3 cr
PSYCHLG 4430 Abnormal Psychology 3 cr

Sociology Required Courses:
SOCIOLGY 1030 Principles of Sociology 3 cr
SOCIOLGY 1130 Introduction to Anthropology 3 cr
or
SOCIOLGY 2130 Cultural Anthropology 3 cr

One of the following may be used as an elective:
SOCIOLGY 2130 Cultural Anthropology 3 cr
SOCIOLGY 2230 Women, Sex Roles, and Society 3 cr
SOCIOLGY 2330 Contemporary Social Problems 3 cr
SOCIOLGY 3130 Social Change 3 cr
SOCIOLGY 3230 Human Relations 3 cr
SOCIOLGY 3330 Crime and Delinquency 3 cr

Psychology Emphasis (69 Credits)

Psychology Required Courses:
PSYCHLG 1130 General Psychology 3 cr
PSYCHLG 2230 Intro to Experimental Psychology 3 cr
PSYCHLG 3130 Child Psychology 3 cr
or
PSYCHLG 3230 Adolescent Psychology 3 cr
PSYCHLG 4030 Theories of Personality 3 cr
or
PSYCHLG 4430 Abnormal Psychology 3 cr
PSYCHLG XXXX 12 more credits of psychology

Geography Required Courses:
GEOGRPHY 1330 World Regional Geography 3 cr
GEOGRPHY 3030 Economic Geography 3 cr
GEOGRPHY 3330 Environmental Conservation 3 cr

Geography XXXX 3 more credits in geography

History Required Courses:
HISTORY 1010 World Civilization I 3 cr
HISTORY 1020 World Civilization II 3 cr
HISTORY 1330 U.S. History to 1877 3 cr
HISTORY 1430 U.S. History since 1877 3 cr
HISTORY XXXX 3 more credits of history

Economics Required Courses:
ECONOMIC 2130 Principles of Macroeconomics 3 cr
ECONOMIC 2230 Principles of Microeconomics 3 cr

Political Science Required Courses:
POLISCI 1130 Introduction to Politics 3 cr
or
POLISCI 1330 International Relations 3 cr
POLISCI 1230 Introduction to American Government 3 cr

One of the following may be used as an elective:
POLISCI 1330 International Relations 3 cr
POLISCI 2430 Comparative Politics 3 cr
POLISCI 2940 Political Economy of Race, Gender, and Ethnicity 3 cr
POLISCI 3530 State and Local Government 3 cr
POLISCI 3720 Politics of the Global Economy 3 cr

Sociology Required Courses:
SOCIOLGY 1030 Principles of Sociology 3 cr
SOCIOLGY 2330 Contemporary Social Problems 3 cr
Social sciences comprehensive majors not in education must...
demonstrate competence in writing. See the department contact person for procedures.
Students planning to teach may want to choose a social sciences minor.

Social Sciences Comprehensive (30 credits)

**History Required Courses:**
- HISTORY 1010 World Civilization I 3 cr
- HISTORY 1020 World Civilization II 3 cr
- HISTORY 1330 U.S. History to 1877 3 cr
- HISTORY 1430 U.S. History since 1877 3 cr

**Geography Required Courses:**
- GEOGRPHY 1330 World Regional Geography 3 cr
Note: GEOGRPHY 3330 Environmental Conservation is a DPI GER requirement for education majors, but it does not count toward the social sciences minor.

**Economics Required Course:**
- ECONOMIC 2130 Principles of Macroeconomics 3 cr

**Political Science Required Course:**
- POLISCI 1130 Introduction to Politics 3 cr
Note: POLISCI 1230 Introduction to American Government is a DPI GER requirement for education majors, but it does not count toward the social sciences minor.

**Sociology Required Courses:**
- SOCIOLGY 1030 Principles of Sociology 3 cr
- SOCIOLGY 1130 Introduction to Anthropology 3 cr
- SOCIOLGY 2130 Cultural Anthropology 3 cr

**Psychology Required Course:**
- PSYCHLGY 1130 General Psychology 3 cr
Note: PSYCHLGY 3530 Adolescent Psychology can be taken to satisfy GER requirements for education majors, but it does not count toward the social sciences minor.

Students who complete either the social sciences comprehensive major with an emphasis in history or the history major and the social sciences comprehensive minor will be qualified to teach history at all grades and levels, as well as social studies courses in middle school and high school.
Foreign Languages Minors
French
French Education
German
German Education
Spanish
Spanish Education

Latin American Studies Minor

Certificate in Foreign Languages
French
German
Spanish

Languages available in general education competency credit
Chinese
French
German
Spanish
Portuguese
Japanese (via UW-Whitewater)

About the Department and Majors
The UW-Platteville Department of Humanities offers the student an interdisciplinary field of study. As an academic field, the humanities focus upon understanding the human condition through the contemplation and practice of the liberal arts. Students cannot major in the humanities as such but only separately in English, philosophy, and foreign languages. Complementary minors in these fields are also available for students who seek to add a concentration in the humanities to any major they may have chosen. The humanities form a field of study that does not automatically prepare students for one career track (except for those majors and minors designated “education,” which prepare students to teach in Wisconsin public schools). Most humanities majors and minors prepare students for a variety of careers. Humanities graduates primarily land jobs in business, government, freelancing environments, communication and publishing, teaching, and other employment sectors. Many students choose a major in one of the humanities programs in order to lay an excellent foundation for graduate school, including advanced degrees in English, foreign languages and philosophy, law school, communication studies, and careers in student services, business, nonprofit organizations, and humanitarian sectors. Students in the humanities also gain valuable experience from participation in exchanges with local and international schools, presentations at academic conferences, and professional organizations, as well as education-abroad programs.

Graduates with a degree in any of the humanities programs should be able to:
• effectively communicate orally and in writing, in English and ideally in a second language
• interpret and evaluate information from a variety of sources
• make complex intellectual connections across disciplines, cultures, and institutions
• transform information into knowledge, and knowledge into judgment and action
• demonstrate intellectual agility and the ability to manage change
• discern the ethical consequences of decisions and actions
• acquire a deep understanding of one’s self, and respect for the complex identities of others, including diverse histories and cultures
• actively participate as citizens in a complex democracy and globalized world

English

www.uwplatt.edu/english
Department Chair: Teresa Burns
Office: 320 Warner Hall
Phone: 608.342.1880
E-mail: burnst@uwplatt.edu

About the English Program and Major
The English program allows students the flexibility to choose from the following three English majors and five minors according to individual preference and career choices. Students may also obtain a writing certificate and a Teaching English to Speakers of Other Languages certificate.

Literature Major (36 credits)
This traditional English major prepares the student for careers and graduate work in English, law, publishing, library science, government, business, and other professions.

English Education Major (36 credits)
In cooperation with the School of Education, this traditional English major prepares students for middle/secondary education careers (early adolescence through adolescence, ages 10-21).

Professional Writing Major (36 credits)
This major prepares students for careers in a variety of writing fields, including technical and scientific communication, business communication, editing and publishing, journalism, and public relations.

English Non-Teaching Minor (24 credits)
This minor is designed for students who seek expertise in literature and writing for a variety of purposes and career options as a complement to their major in another program.

English Education Minor (24 credits)
This minor is designed for students seeking middle/secondary education certification. It complements other teaching majors and qualifies the student to teach another subject.

Teaching English to Speakers of Other Languages
This TESOL program provides students with the professional knowledge and skills necessary to teach English to speakers of other languages in the United States or abroad. The program offers three tracks to accommodate students with differing educational needs: 1) a TESOL licensure minor; 2) a TESOL minor, and 3) a TESOL certificate.
Creative Writing Minor (24 credits)
This versatile minor focuses on the development of literary writing skills, particularly in poetry, short story, nonfiction, and other professional genres.

Interdisciplinary Film and Media Studies Minor (24 credits)
This minor offers students a holistic approach to studying and creating film, advertising, television, and other types of media by offering both production-oriented required and elective courses alongside analytical and appreciation courses, including one non-Hollywood focused course, such as Race and Gender in American Film or International Cinema.

This minor enables students to gain a well-rounded understanding of film and media that emphasizes both a critical/analytical aspect as well as a technology- and production-oriented approach.

Writing Certificate (18 credits)
Designed for students who want a general education in English studies and writing but do not wish to major or minor in English.

Mission Statement
All English majors and minors are designed to prepare students for careers in a variety of professional environments, in which creativity, critical thinking, and a broad cultural perspective are required, but especially in those fields that require writing and teaching. English courses teach proficiency in literary analysis, professional and creative writing, cultural analysis and creation, and the mastery of rhetorical devices.

The basic pre-professional objective of the non-teaching English majors is twofold:
• To provide graduates with a solid preparation for graduate studies (e.g., Master’s degree in education, Master of Fine Arts, master’s in professional writing/communication, literature, library science, rhetoric and composition, as well as pre-law)
• To educate generalists for job placement in the publishing industry, in creative and editorial positions, in education, businesses, government, and nonprofit agencies

The more general, non-career oriented objective of the English program at UW-Platteville is to educate citizens who understand, think about, and argue complex cultural issues. Specifically our literature and advanced composition courses are designed to broaden students’ perspectives and to increase their cultural literacy. Students gain personally and professionally from an education in American, British, and world literature by becoming intellectually more astute and literate.

Technical writing experience and other professional skills, including training in TESOL, are all highly marketable skills that graduates acquire in our program. Our emphasis on the broad variety of human experiences through internships, community-based (service) learning, as well as participation in forums on and off campus, helps students to participate in meaningful ways in society. Graduates in English are taught to apply their knowledge in all personal, professional, and social situations in which ethical decisions demand a deepened knowledge of the human condition and an understanding of the past.

Specific Teaching Objectives of the English Program
• To develop students’ critical thinking skills through instruction in rhetoric, linguistic logic, argumentation, and general communication skills
• To cultivate students’ understanding of the role of literature and culture in social structures
• To develop students’ knowledge of literary movements across centuries, periods, and geographical regions
• To promote the ethical, aesthetic, as well as sociopolitical elements of intellectual discourse
• To educate students regarding the cultural achievements of past and present thinkers, writers, and wise people
• To raise student awareness of the diversity of voices and global connections

Student Learning Outcomes
Depending upon which English major the student selects, graduates of the English program shall gain competence and knowledge in:
1. The formal elements of literature (drama, fiction, poetry, film, creative nonfiction): e.g., meter, verse, imagery, mise en scene, multiple plot structures, character development
2. The ability to write successful creative and/or professional texts with the knowledge of the formal elements of writing (e.g., mechanics, style, conventions of various genres/modes, editing, document of design)
3. The ability to think critically through analyzing, discussing and writing about texts (peer response, literary analysis, reports, essays, journals, creative projects)
4. The role of language, literature, and culture in sociopolitical structures throughout history
5. The history and elements of various literary movements, periods, and genres (e.g., the Harlem Renaissance, Modernism, detective fiction, revenge tragedy, young adult literature, etc.) across centuries, periods, and geographical regions
6. The history of and/or how to apply various theories of language and literature (e.g., mimesis, New Criticism, feminism, post-structuralism, New Historicism)
7. The awareness of writing and ideas by female and male authors, both classic and contemporary, including a representative body of literature encompassing works of diverse national, cultural, and ethnic groups
8. The strategies for doing research and for incorporating evidence appropriately into texts with appropriate documentation style (usually MLA)
9. The pedagogy of writing and literature
10. The understanding of and ability to apply the pedagogy of teaching English to speakers of other languages
11. Aesthetics
12. Ethics
The Writing Center
Coordinator: Morgan Spitzer
Office: 303 Brigham Hall
Phone: 608.342.1615
E-mail: writingcenter@uwplatt.edu

At the Writing Center, student tutors, many of whom are English majors, meet one-to-one with UW-Platteville students to discuss all kinds of writing, from freshmen composition papers to lab reports to résumés. The goal of the Writing Center is to help students to become better writers. Through conversations with peer tutors, students will learn to more effectively read and revise their own writing.

Requirements
Bachelor of Arts Degree
Total for graduation.......................... 120 credits
General education............................ 44-58 credits
Major studies.................................. 36 credits

First-Year Composition (6 credits)
English 1130 and 1230 are prerequisites for most English courses. English majors must complete the first-year composition sequence or earn transfer credit for equivalent courses taken elsewhere BEFORE taking any English course at the 2000-level or above.

Foreign Language Requirement
All English majors must earn a “D” or better in the required foreign language courses.

Professional Writing and Literature
English Majors (4-16 credits)
Beyond UW-Platteville’s general education requirement for a foreign language, professional writing and English literature majors are required to complete one foreign language through the fourth college semester (French 2140, German 2340 or Spanish 2940). Students must contact the foreign language program office in Room 228 of Warner Hall to determine at which level they should begin. The appropriate language faculty member can also determine competency and retroactive credit.

Students already fluent in a second language or for whom English is a second or other language are exempt from this requirement.

English Education Majors
(4-12 credits)
Beyond UW-Platteville’s general education requirement for a foreign language, English education majors are required to complete one foreign language through the third college semester (French 2040, German 2240 or Spanish 2840). Students must contact the foreign language program office in Room 228 of Warner Hall to determine at which level they should begin. The appropriate language faculty member can also determine competency and retroactive credit.

Students already fluent in a second language or for whom English is a second or other language are exempt from this requirement.

Philosophy Requirement
All English majors must earn a “C” or better in course(s) taken to fulfill the philosophy requirement.

Professional writing and literature English majors must take six credits from any philosophy courses listed in the catalog.

English education majors must take either PHLSPHY 1130 Introduction to Philosophy or PHLSPHY 2530 Ethics.

Licensure Requirement for English Education Majors:
All students intending to become licensed teachers must satisfy the requirements outlined in the teacher licensure section listed under the School of Education catalog description.

Writing Portfolio Requirement
During the first week of their senior year, all English majors must submit a portfolio in order to graduate. Students with a failing portfolio will be required to meet with the Rhetoric and Composition Committee to discuss a course of action for the improvement of their writing, which may include rewriting portfolio papers and taking additional courses. The requirements for the portfolio are available in the department office.

Prerequisites and Other Requirements
All literature courses, except ENGLISH 3930 Literature for Young Adults and ENGLISH 3990 Topics in Language, Literature or Writing, count as humanities credit towards the general education requirements. All courses numbered 2000 or above have ENGLISH 1230 as a prerequisite.

Literature Major (36 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English literature 2130, 2230 or 2330</td>
<td>3 cr</td>
</tr>
<tr>
<td>American literature 2430 or 2530</td>
<td>3 cr</td>
</tr>
<tr>
<td>World literature 2640 or 2650</td>
<td>3 cr</td>
</tr>
<tr>
<td>One more course from the above survey courses</td>
<td>3 cr</td>
</tr>
<tr>
<td>One course in English literature besides Shakespeare at the 3000 or 4000 level</td>
<td>3 cr</td>
</tr>
<tr>
<td>One course in American literature at the 3000 or 4000 level</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3050 Introduction to Contemporary Literature Theory and Criticism</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4330 Shakespeare</td>
<td>3 cr</td>
</tr>
<tr>
<td>Literature courses at the 3000 level or above</td>
<td>6 cr</td>
</tr>
<tr>
<td>At least one of the above courses other than Shakespeare must focus on literature before 1800.</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 4020 History and Theory of Rhetoric</td>
<td>3 cr</td>
</tr>
<tr>
<td>or ENGLISH 4620 History of the English Language</td>
<td>3 cr</td>
</tr>
<tr>
<td>Writing courses at the 2000 level or above</td>
<td>3 cr</td>
</tr>
<tr>
<td>Students must earn a “C” or better in these courses.</td>
<td></td>
</tr>
</tbody>
</table>

English Education Major (36 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English literature course 2130, 2230 or 2330</td>
<td>3 cr</td>
</tr>
<tr>
<td>American literature course 2430 or 2530</td>
<td>3 cr</td>
</tr>
<tr>
<td>World literature course 2640 or 2650</td>
<td>3 cr</td>
</tr>
<tr>
<td>Other/additional literature courses</td>
<td>6 cr</td>
</tr>
<tr>
<td>(At least three of the above literature courses must be at the 3000 level or above.)</td>
<td></td>
</tr>
<tr>
<td>Creative writing course</td>
<td>3 cr</td>
</tr>
<tr>
<td>(ENGLISH 2120, ENGLISH 3120, ENGLISH 3140)</td>
<td></td>
</tr>
<tr>
<td>Professional writing course</td>
<td>3 cr</td>
</tr>
<tr>
<td>(ENGLISH 3000, ENGLISH 3240, ENGLISH 3360)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 3030 The Teaching of Composition</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Pre or corequisite for English 4730)</td>
<td></td>
</tr>
</tbody>
</table>
ENGLISH 3930 Literature for Young Adults 3 cr
(Pre or corequisite for English 4730)
ENGLISH 3940 Grammar in Context 3 cr
ENGLISH 4330 Shakespeare 3 cr
ENGLISH 4620 History of the English Language 3 cr

Students must earn a “C” average or better in these courses.

Required Courses for the School of Education
(6 credits)
ENGLISH 4730 Teaching English in Middle and Secondary Schools 3 cr
(Pre or corequisites: ENGLISH 3030 and ENGLISH 3930)
Counts for total graduation credits, but does not count towards an English major
TEACHING 2130 Human Growth and Development 3 cr

Requirements for the School of Education
1. Pass Pre-Professional Skills Test
2. Apply in sophomore year to the School of Education
3. Fulfill requirements on middle/secondary education checklist
4. Pass English content test (Praxis II)
5. Satisfy the requirements outlined in the teacher licensure section listed under the School of Education in this catalog.

Professional Writing Major
(36 credits)

Required Courses:
- English literature 2130, 2230 or 2330 3 cr
- American literature 2430 or 2530 3 cr
- Electives in literature at the 3000 level or above 6 cr
- Elective courses from the lists below 21 credits
- ENGLISH 4680 Writing Internship 3 cr minimum
(Students may do more than one internship for 1-8 credits)

Electives (21 credits)
Writing Courses (12-15 credits, at least 12 of which are from English):
COMPUTER 2830 Advanced Microcomputer Applications 3 cr
ENGLISH 2120 Creative Writing 3 cr
ENGLISH 3000 Technical Writing 3 cr
ENGLISH 3140 Poetry Writing 3 cr
ENGLISH 3150 Fiction Writing 3 cr
ENGLISH 3160 Creative Nonfiction Writing 3 cr
ENGLISH 3240 Advanced Writing 3 cr
ENGLISH 3360 Magazine Writing and Editing 3 cr
ENGLISH 4120 Advanced Manuscript Workshop 3 cr
ENGLISH 4680 Writing Internship 3 cr
(Will count as an elective if repeated for credit)

MEDIA 2030 Basic Newswriting and Reporting 3 cr
MEDIA 2110 Applied Communication 1 cr
MEDIA 3120 Applied Communication 2 cr
MEDIA 3830 Editing for Print 3 cr

Language – linguistic courses (6-9 credits, chosen from the following list):
ENGLISH 2210 Introduction to Linguistics 3 cr
ENGLISH 3250 Sociolinguistics 3 cr
ENGLISH 3260 Language and Culture 3 cr
ENGLISH 3940 Grammar in Context 3 cr

ENGLISH 4020 History and Theory of Rhetoric 3 cr
ENGLISH 4620 History of the English Language 3 cr
Students must earn a grade of “C” or better in these courses.

English Non-Teaching Minor
(24 credits)
American literature course 2430 or 2530 3 cr
World literature course 2640 or 2650 3 cr
ENGLISH 4330 Shakespeare 3 cr
Writing courses at the 2000 level or above 6 cr
Literature, language or writing courses 9 cr
Students must earn a “C” or better in these courses.

English Education Minor (24 credits)
British literature course 3 cr
American literature course 3 cr
World literature course 3 cr
Literature course 3 cr
(ENGLISH 3930 is recommended and required for 5-12 licensure)
Students must earn a “C” average or better in these courses.
At least two of the above literature courses must be at the 3000 level or above.
ENGLISH 3940 Grammar in Context 3 cr
ENGLISH 4730 Teaching English in Middle and Secondary Schools 3 cr
Writing courses at the 2000 level or above 6 cr

Requirements for the School of Education
1. Pass Pre-Professional Skills Test
2. Apply in sophomore year to the School of Education
3. Fulfill requirements on middle/secondary education checklist
4. Pass English content test (Praxis II)
5. Satisfy the requirements outlined in the teacher licensure section listed under the School of Education in this catalog.

Creative Writing Minor (24 credits)

Required Courses:
ENGLISH 2120 Creative Writing* 3 cr
ENGLISH 4120 Advanced Manuscript Workshop* 3 cr
At least one of the following three courses:
ENGLISH 3140 Poetry Writing* 3 cr
OR
ENGLISH 3150 Fiction Writing* 3 cr
OR
ENGLISH 3160 Creative Nonfiction Writing* 3 cr

Required Literature Courses
(6 credits, 3 credits from this list):
ENGLISH 2730 Contemporary Literature 3 cr
ENGLISH 3810 The Modern Short Story 3 cr
ENGLISH 3820 Modern Poetry 3 cr
ENGLISH 3530 Modern American Drama 3 cr
Students who take fewer than 24 credits from the above list may complete the minor by selecting up to six credits from:
Any literature course 3-6 cr
ENGLISH 3000 Technical Writing 3 cr
ENGLISH 3240 Advanced Writing 9 cr
ENGLISH 3360 Magazine Writing and Editing 3 cr
ENGLISH 3940 Grammar in Context 3 cr
ENGLISH 4680 Writing Internship 3 cr
MEDIA 2110 Applied Communication* 1 cr
MEDIA 3120 Applied Communication* 2 cr
MEDIA 2030 Basic Newswriting and Reporting 3 cr
MEDIA 3830 Editing for Print 3 cr

(may be accepted with permission of the department chair)

*May be repeated for credit

Teaching English to Speakers of Other Languages
This TESOL program provides students with the professional knowledge and skills necessary to teach English to speakers of other languages in the United States or abroad. The program offers three tracks to accommodate students with differing educational needs: 1) a TESOL licensure minor; 2) a TESOL minor, and 3) a TESOL certificate.

Prerequisites
Foreign language requirement: completion of a minimum of one-semester college-level foreign language course or its equivalent

English language requirement: a grade of “C” or higher in ENGLISH 1230

TESOL Licensure Minor (24 credits)
This TESOL licensure minor prepares pre-service teachers to work with English language learners – students whose first language is not English. Candidates interested in the TESOL licensure minor must enroll in the School of Education and seek a regular Wisconsin teaching license. Successful completion of the minor leads to a Wisconsin add-on license in English as a Second Language.

Required Courses (21 credits)
ENGLISH 2210 Introduction to Linguistics 3 cr
ENGLISH 3250 Sociolinguistics 3 cr
ENGLISH 3260 Language and Culture 3 cr
ENGLISH 3610 Second Language Acquisition 3 cr
ENGLISH 3940 Grammar in Context 3 cr
TEACHING 4670 Methods of Teaching English as a Second Language 3 cr
TEACHING 4750 Practicum in Teaching English as a Second Language 3 cr

Cross-Cultural Immersion Experience (3 credits or advisor approval)
BUSADMIN 3750 International Short Study 3 cr
FRENCH 3000 Foreign Languages Travel Abroad Seminar 3 cr
GERMAN 3000 Foreign Languages Travel Abroad Seminar 3 cr
LAE 3000 LAE Short-term International Experience 3 cr
SPANISH 3000 Foreign Languages Travel Abroad Seminar 3 cr
TEACHING 4350 Field Experience in Cultural Diversity 3 cr

1. Pass the Praxis II English to Speakers of Other Languages Test (Test Code 0361)
2. Satisfy the requirements outlined in the teacher licensure section under School of Education in this catalog.

TESOL Minor (24 credits)
The TESOL minor is designed for students who are interested in teaching English as a second or foreign language or pursuing a higher degree in TESOL, linguistics, applied linguistics or a related field.

Required Courses (21 credits)
ENGLISH 2210 Introduction to Linguistics 3 cr
ENGLISH 3250 Sociolinguistics 3 cr
ENGLISH 3260 Language and Culture 3 cr
ENGLISH 3610 Second Language Acquisition 3 cr
ENGLISH 3940 Grammar in Context 3 cr
ENGLISH 4670 Methods of Teaching English as a Second Language 3 cr
ENGLISH 4740 Practicum in Teaching English as a Second Language 3 cr

Elective Course (3 credits)
Select one course from one area below:

Humanities
ENGLISH 4620 History of the English Language 3 cr
Upper-division literature or civilization courses in any foreign language

Ethnic Studies
ETHNSTDY 3410 Chicano Literature 3 cr
(Cross offering: ENGLISH 3410)
ETHNSTDY 3730 Black Literature in America 3 cr
(Cross offering: ENGLISH 3730)
ETHNSTDY 3740 Asian American Literature 3 cr
(Cross offering: ENGLISH 3740)
ETHNSTDY 3750 American Literature of Ethnicity and Immigration 3 cr
(Cross offering: ENGLISH 3750)
ETHNSTDY 3760 Wisconsin Indian Literature 3 cr
(Cross offering: ENGLISH 3760)
ETHNSTDY 3810 Race, Gender, and U.S. Labor History (Cross offering: HISTORY 3810) 3 cr
ETHNSTDY 3630 Ethnic and Gender Equity in Education (Cross offering: TEACHING 3630, WOMSTD 3630) 3 cr
ETHNSTDY 3720 Ethnic Rights and Politics (Cross offering: POLISCI 3720) 3 cr

International Education
ENGLISH 3830 The World Novel 3 cr
ENGLISH 3850 Postcolonial Literature 3 cr
POLISCI 3030 International Relations 3 cr
POLISCI 3720 Politics of the Global Economy 3 cr

TESOL Certificate (18 credits)
The TESOL certificate prepares students to teach English abroad or in adult ESL programs in the U.S. The certificate is open to all students regardless of their major. It would be particularly useful for those who wish to experience other cultures or work for international companies and organizations.

Additional Licensing Requirements
Required Courses (15 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 2210</td>
<td>Introduction to Linguistics</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3260</td>
<td>Language and Culture</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3610</td>
<td>Second Language Acquisition</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4670</td>
<td>Methods of Teaching English as a Second Language</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4740</td>
<td>Practicum in Teaching English as a Second Language</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Elective Course (3 credits)

Select one course from one area below:

**Humanities**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 3250</td>
<td>Sociolinguistics</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3940</td>
<td>Grammar in Context</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4620</td>
<td>History of the English Language</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Upper-division literature or civilization courses in any foreign language

**Ethnic Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNSTDY 3410</td>
<td>Chicano Literature (Cross offering: ENGLISH 3410)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3730</td>
<td>Black Literature in America (Cross offering: ENGLISH 3730)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3740</td>
<td>Asian American Literature (Cross offering: ENGLISH 3740)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3750</td>
<td>American Literature of Ethnicity and Immigration (Cross offering: ENGLISH 3750)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3760</td>
<td>Wisconsin Indian Literature (Cross offering: ENGLISH 3760)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3010</td>
<td>Race, Gender, and US Labor History (Cross offering: HISTORY 3010)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3630</td>
<td>Ethnic and Gender Equity in Education (Cross offering: TEACHING 3630, WOMSTD 3630)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3720</td>
<td>Ethnic Rights and Politics (Cross offering: POLISCI 3730)</td>
<td>3 cr</td>
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</tbody>
</table>

**International Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 3830</td>
<td>The World Novel</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3850</td>
<td>Postcolonial Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3030</td>
<td>International Relations</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3720</td>
<td>Politics of the Global Economy</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Interdisciplinary Film and Media Studies Minor (24 credits)

**Required Courses (15 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 2250</td>
<td>Introduction to Film</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 2770</td>
<td>International Cinema</td>
<td>3 cr</td>
</tr>
<tr>
<td>OR</td>
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<td></td>
</tr>
<tr>
<td>ENGLISH 2780</td>
<td>Race and Gender in American Film</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4780</td>
<td>Advanced Topics in Film Studies</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 1630</td>
<td>Introduction to Mass Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2470</td>
<td>Production Foundations</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Elective courses (9 credits from the following list; no more than 6 from any one discipline):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 3050</td>
<td>Introduction to Literary Theory</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Writing Certificate (18 credits)

Designed for students who want a general education in English studies and writing but do not wish to major or minor in English.

**Writing Courses (18 credits from the list below, 12 of which must be from English):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 3030</td>
<td>Advanced Microcomputer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 2120</td>
<td>Creative Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3000</td>
<td>Technical Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3140</td>
<td>Poetry Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3150</td>
<td>Fiction Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3160</td>
<td>Creative Nonfiction Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3240</td>
<td>Advanced Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3360</td>
<td>Magazine Writing and Editing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3940</td>
<td>Grammar in Context</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4020</td>
<td>History and Theory of Rhetoric</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4120</td>
<td>Advanced Manuscript Workshop</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4620</td>
<td>History of the English Language</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4680</td>
<td>Writing Internship</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2030</td>
<td>Basic Newswriting and Reporting</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2110</td>
<td>Applied Communication (repeatable)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 3120</td>
<td>Applied Communication (repeatable)</td>
<td>2 cr</td>
</tr>
<tr>
<td>MEDIA 3830</td>
<td>Editing for Print</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Prereq/coreqs: P: ENGLISH 1130 and ENGLISH 1230

**Philosophy**

www.uwplatt.edu/philosophy

Contact: Shane Drefcinski
Office: 419 Warner Hall
Phone: 608.342.1828
E-mail: drefcins@uwplatt.edu

Professor: Shane Drefcinski
Lecturers: Michael Bausch
T.A. Sandberg

Associate Professor: Michael Sharkey
Mary Lenzi

English Drama 3 cr
About the Philosophy Program and Major

Philosophy literally means the “love of wisdom.” As a discipline of the mind, it calls us to think critically about the most fundamental questions of life. What does it mean to be human? How are we humans related to the rest of reality? What constitutes reality? Is the universe friendly or indifferent to human purpose? To what extent are we free or not free? What purposes ought we to pursue? What is good and evil? What are the possibilities and limitations of human power and understanding? By what criteria can such questions be addressed? What constitutes knowledge? Are there different ways of knowing? What role do assumptions play in what we think is true? By challenging students to think carefully about questions like these, the philosophy program provides an excellent foundation for
graduate school as well as a pathway not only to making a life but also to making a living in careers such as law, teaching, business, the ministry, journalism, and art.

UW-Platteville offers a major in philosophy and a minor in philosophy. Both options encourage students to address in a disciplined way the most fundamental questions of life.

Mission Statement
With regard to our mission, the philosophy program has two main goals:

The first goal is to help students in their courses, but especially our philosophy majors and minors, to become what UW-Platteville pledges in the first item of its mission statement, namely, “to become broader in perspective, more literate, intellectually more astute, ethically more sensitive, and to participate wisely in society as a competent professional and knowledgeable citizen.”

The second goal is to provide our majors and minors the opportunity to develop in-depth their ability to think critically about the most fundamental (and inescapable) questions that humans can raise about reality, knowledge, and values. As a corollary to this second goal, we aim to give our majors and minors a solid preparation for whatever they pursue after graduation, whether it be graduate studies, law school, medicine, education, academic computing, journalism, social work, ministry, a fine art, or business.

Student Learning Outcomes
Students who major or minor in philosophy will:

1. acquire a broad understanding of the history of Western philosophy
2. become more ethically sensitive through the careful study of various ethical theories
3. enhance their ability to analyze and clarify ideas
4. refine their ability to think logically
5. demonstrate their ability to present their ideas and arguments effectively, both orally and in writing

General Requirements
Bachelor of Arts Degree

Total for graduation..........................120 credits
General education.............................44-58 credits
Major studies .....................................36 credits

Philosophy majors, in addition to the requirements for the major, are also required to take one of the following foreign language courses: French 2140, German 2340 or Spanish 2940. Majors in philosophy are also required to take two English literature courses at the 2000 level or above.

 Philosophy Major (36 credits)
The major requires a minimum of 36 credits, including PHILSPHY 1130 Introduction to Philosophy or PHILSPHY 2230 Contemporary Worldviews, PHILSPHY 2330 Origins of Western Philosophy, PHILSPHY 2430 Philosophy in the Modern World, PHILSPHY 2630 Logic, four 3000-level seminars and two 4000-level seminars. Religious studies courses and PHILSPHY 4330 Philosophy of Education may not be taken for credit toward a major in philosophy.

Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILSPHY 1130</td>
<td>Introduction to Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2130</td>
<td>Peace Studies: Issues, Ideas and Morality of Nuclear War</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2230</td>
<td>Contemporary Worldviews</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2330</td>
<td>Origins of Western Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2430</td>
<td>Philosophy in the Modern World</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2530</td>
<td>Ethics</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2630</td>
<td>Logic</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 3130</td>
<td>Philosophy of History</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 3230</td>
<td>Philosophy of Religion</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 3330</td>
<td>Ontology and Ethics</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 3430</td>
<td>Social Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 3530</td>
<td>Philosophy's Feminist Future: From Powerism to Personalism</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 3630</td>
<td>Philosophy of Law</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 4430</td>
<td>Seminar in Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 4660</td>
<td>Cooperative Field Experience</td>
<td>1-8 cr</td>
</tr>
<tr>
<td>PHILSPHY 4720</td>
<td>Individual Research in Philosophy</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

Philosophy Minor (24 credits)
The minor requires a minimum of 24 credits, including the same courses and restrictions as the major except that only two 3000-level seminars and one 4000-level seminar are required.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHILSPHY 1130</td>
<td>Introduction to Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>PHILSPHY 2230 Contemporary Worldviews</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2330</td>
<td>Origins of Western Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2430</td>
<td>Philosophy in the Modern World</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2630</td>
<td>Logic</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Two 3000-level seminars and one 4000-level seminar

Foreign Languages
www.uwplatt.edu/foreignlanguages

Contact: Teresa Burns
Office: 320 Warner Hall
Phone: 608.342.1180
E-mail: burnst@uwplatt.edu

Professors:
Laura Anderson (French/ Spanish)
Raymond Spoto (Spanish)

Associate Professors:
Mark Evenson (Spanish)
Chris Schulenburg (Spanish)

Assistant Professor:
Madelon Kähler-Busch (German)

Lecturers:
Edina Haslauer (German)
Catherine Van Paemel (Spanish)

About the Foreign Language Program and Majors
The foreign language program offers majors in German and Spanish, along with minors in French, German, and Spanish. Students who major in foreign languages find career opportunities in many areas, such as international business, marketing, civil service work, diplomacy, and law enforcement.

Minor studies in French, German, and Spanish are designed for students interested in combining a minor in a foreign language with
other areas of study for the purpose of enhancing communication skills and career opportunities. Likewise, apart from the intellectual development that results from the study of the French, German, or Spanish language, its literature and its civilization, students may also find professional employment in international business, marketing, civil service, and teaching.

Students who wish to teach French, German or Spanish must be admitted to the School of Education, meet all of the requirements for teacher certification and also take TEACHING 4060 Teaching World Languages: Theory and Practice (credits do not count toward major or minor). All students intending to become licensed teachers must satisfy the requirements outlined in the teacher licensure section listed under the School of Education in this catalog.

Mission

1. Serve well the general education mission of the university in the areas of foreign language competencies and the humanities.
2. Prepare students via language skills and cultural exposure for professions in business, law enforcement, communications, counseling, translation, and other fields.
3. Prepare highly qualified foreign language teachers in conjunction with the Wisconsin Department of Public Instruction and the UW-Platteville School of Education through our teaching-minor and teaching-major programs. Students must also attain a level of mastery in the areas of teaching methods and knowledge of theories of second language acquisition.

Goals and Objectives

Goal 1: Proficient Oral Communication Skills
- Student learning outcome 1: Student will demonstrate minimum oral proficiency at a level equivalent to intermediate high on the ACTFL proficiency scale or student will be able to discuss a wide range of general interest topics in most informal and some formal situations.
- Student learning outcome 2: Student will be able to be understood without difficulty by speakers unaccustomed to non-native speakers.

Goal 2: Proficient Written Communication Skills
- Student learning outcome 3: Student will demonstrate knowledge and skills in effective written presentation in informal and formal styles at a level roughly equal to the student's oral proficiency.
- Student learning outcome 4: Student will be able to read and understand a variety of authentic written materials.

Goal 3: Knowledge of Cultural Practices and Perspectives
- Student learning outcome 5: Student will complete a period of language immersion in residence in a country in which the target language is spoken.
- Student learning outcome 6: Student will be able to discuss the historical, geographical, political, socioeconomical, literary, and artistic features of a variety of regions and countries in which the target language is spoken.

Goal 4: Preparation of Highly Qualified Foreign Language teachers in conjunction with the UW-Platteville School of Education
- Student learning outcome 7: Student will meet DPI requirements for certification as a foreign language teacher.
- Student learning outcome 8: Student will attain a level of mastery in the areas of teaching methods and knowledge of theories of second language acquisition.

Foreign Language Competency/Retroactive Credits

All students are required to demonstrate competency in a foreign language. The competency consists of the following: one year (two semesters) of one foreign language at the 1000 college level or two years (four semesters) of a foreign language in high school with a grade of “C” or higher in the second year of high school foreign language study. Foreign languages other than the languages taught at UW-Platteville may satisfy this competency.

Students may receive retroactive college credit for their high school foreign language studies. Proficiency acquired in high school may be counted toward graduation and toward the number of credits in the major or minor. Students ordinarily earn a maximum of eight retroactive credits. However, students with high proficiency may earn more retroactive credit as determined by the department.

In order to earn retroactive credit, a student must enroll in a second semester course or higher, and must earn a grade of “A” or “B” in that course. In addition to credit for the course completed, a student may then earn between four and 16 retroactive credits for the course or courses skipped at the 1000 or 2000 levels.

Credits in Residence

Minimum number of credits in language major or minor required in residence on the UW-Platteville campus

All students completing a major or a minor in any language through UW-Platteville must take at least half of the upper-level credits required for that major or minor in residence on the UW-Platteville campus as follows:
- minimum of 10 upper-level language credits in residence for that major
- minimum of 12 upper-level language credits in residence for the education major
- minimum of four upper-level language credits in residence for the minor
- minimum of six upper-level language credits in residence for the education minor

Coursework taken at any institution other than UW-Platteville will not be counted toward this requirement.

General Requirements

Bachelor of Arts Degree in German and Spanish

Total for graduation........................................120 credits
General education ........................................44-58 credits
Major studies ................................................36 credits
Non-teaching German and Spanish majors, in addition to the requirements for the major, are also required to take nine credits of English literature and philosophy with no more than two courses from one of the above areas. Students may select any philosophy or English literature course at the 2000 level or higher.

Students who major in a foreign language are required to take eight or nine credits in our Education Abroad program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted.

Bachelor of Arts Degree in Teaching German and Spanish
(available for education majors only)

Total for graduation........................................ 120 credits
General education........................................ 44-58 credits
Major studies.................................................. 40 credits
(foreign-language education majors)

In addition to the credits required for German and Spanish majors in education, there is also a requirement for one philosophy course (PHLSPHY 1130 Introduction to Philosophy or PHLSPHY 2530 Ethics).

Students who major in a foreign language are required to take eight or nine credits in our Education Abroad program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted.

Certificate in Foreign Languages

This program is designed to provide students with the language proficiency skills required for oral communication in German, French, and Spanish. Conversation is stressed with some emphasis on civilization in order to provide knowledge and awareness of the culture. Students in this limited sequence of language courses are encouraged to couple foreign language skills with other areas of study so as to take advantage of career opportunities in foreign languages.

The program consists of 18 credits taken in an orderly sequence, which includes elementary and intermediate language courses along with a two-credit course in practical conversation. Retroactive credit may be obtained for previous study in high school. See section under foreign language competency/retroactive credits.

French

The UW-Platteville Department of Humanities offers a minor in French for students interested in combining a minor in a foreign language with other areas of study for the purpose of enhancing communication skills and career opportunities. Likewise, apart from the intellectual development that results from the study of the French language and francophone culture, students may also find professional employment in many different areas, including international business, marketing, civil service, and teaching.

French Minor (24 credits)
The minor requires a total of 24 credits with a minimum of eight credits selected from courses numbered 3000 or higher. Students who minor in French must have a grade point average of no lower than a 2.50 in the French courses they take.

French Education Minor (28 credits)
The minor requires a total of 28 credits with a minimum of 12 credits selected from courses numbered 3000 or higher.

TEACHING 4060 Teaching World Languages: Theory and Practice is an additional requirement of the School of Education (credits do not count toward minor). Likewise, students interested in teaching may satisfy the language immersion requirement by enrolling in FRENCH 3000 Foreign Language Travel Abroad Seminar for at least two credits. See the French instructor for details. French minors must have a G.P.A. of no lower than a 2.75 in French courses.

Required:
Non-teaching minors 8 cr of 3000 and above
Teaching minors 12 cr of 3000 and above

Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 1040 Elementary French (or equivalent)</td>
<td>4 cr</td>
</tr>
<tr>
<td>FRENCH 1140 Elementary French (or equivalent)</td>
<td>4 cr</td>
</tr>
<tr>
<td>FRENCH 2040 Intermediate French (or equivalent)</td>
<td>4 cr</td>
</tr>
<tr>
<td>FRENCH 2140 Intermediate French (or equivalent)</td>
<td>4 cr</td>
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<tr>
<td>FRENCH 3000 Foreign Language Travel Abroad Seminar</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>FRENCH 3220 Advanced French Grammar and Composition</td>
<td>2 cr</td>
</tr>
<tr>
<td>FRENCH 3240 Advanced French Conversation</td>
<td>2 cr</td>
</tr>
<tr>
<td>FRENCH 3530 Topics in French Literature and Culture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>FRENCH 4050 Supervised Independent Study</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>FRENCH 4060 Survey of French Literature and Culture I</td>
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</tr>
<tr>
<td>FRENCH 4160 Survey of French Literature and Culture II</td>
<td>3 cr</td>
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Required School of Education Course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 4060 Teaching World Languages: Theory and Practice</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Geran Major (36 credits)
The major requires a total of 36 credits with a minimum of 20 credits selected from courses numbered 3000 or higher. GERMAN 4220 Phonetics and GERMAN 3530 German Civilization are required. Students who major in German must have a grade point average of no lower than a 2.50 in the German courses they take, and meet the education abroad requirement by completing eight to nine credits in our Education Abroad program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted.

In addition, students completing a Bachelor of Arts degree are required to take nine credits of English literature and philosophy with no more than two courses from each area (2000 level or above).

German Education Major (40 credits)
The major requires a total of 40 credits with a minimum of 24 credits selected from courses numbered 3000 or higher. GERMAN 4220 Phonetics and GERMAN 3530 German Civilization are required. TEACHING 4060 Teaching World Languages: Theory and
Practice is an additional requirement of the School of Education (credits do not count toward major). Students who major in German must have a grade point average of no lower than a 2.75 in the language courses they take, and meet the education abroad requirement by completing eight to nine credits in our Education Abroad program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted. In addition, German Education majors completing a Bachelor of Science degree are required to take either PHILSPHY 1130 Introduction to Philosophy or PHILSPHY 2530 Ethics.

German Minor (24 credits)
The minor requires a total of 24 credits with a minimum of eight credits selected from courses numbered 3000 or higher. Students who minor in German must have a grade point average of no lower than a 2.50 in the German courses they take.

German Education Minor (28 credits)
The minor requires a total of 28 credits with a minimum of 12 credits selected from courses numbered 3000 or higher. GERMAN 4220 Phonetics and GERMAN 3530 German Civilization are required. TEACHING 4060 Teaching World Languages: Theory and Practice is an additional requirement of the School of Education (credits do not count toward minor). Likewise, students interested in teaching may satisfy the language immersion requirement by enrolling in the Foreign Language Travel Abroad Seminar for at least two credits. See the German instructor for details. German minors must have a G.P.A. of no lower than a 2.75 in German courses.

Courses:
GERMAN 1240 Elementary German 4 cr
GERMAN 1340 Elementary German 4 cr
GERMAN 2240 Intermediate German 4 cr
GERMAN 2340 Intermediate German 4 cr
GERMAN 3000 Foreign Language Travel 1-4 cr
    Abroad Seminar
(Teaching minors may take at least two credits for purpose of immersion)
GERMAN 3220 German Conversation 2 cr
    and Composition I
GERMAN 3320 German Conversation 2 cr
    and Composition II
GERMAN 3330 German Language of the 20th Century 3 cr
GERMAN 3430 German Language of the 19th Century 3 cr
GERMAN 3530 German Civilization 3 cr
GERMAN 4220 Phonetics 2 cr
GERMAN 4230 German Literature to 1750 3 cr
GERMAN 4250 Supervised Independent Study 1-4 cr
GERMAN 4330 German Literature since 1750 3 cr

Required School of Education Course:
TEACHING 4060 Teaching World Languages: Theory and Practice 3 cr
(credit does not count toward major or minor)

Spanish Spanish Major (36 credits)
The major requires a total of 36 credits with a minimum of 20 credits selected from courses numbered 3000 or higher, including courses in SPANISH 4820 Phonetics and SPANISH 3830 Spanish
point average of no lower than a 2.50 in the Spanish courses they take, and meet the education abroad requirement by completing eight to nine credits in our Education Abroad program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted. In addition, students completing a Bachelor of Arts degree are required to take nine credits of English literature and philosophy with no more than two courses from each area (2000 level or above).

Spanish Education Major (40 credits)
The major requires a total of 40 credits with a minimum of 24 credits selected from courses numbered 3000 or higher, including courses in SPANISH 4820 Phonetics and SPANISH 3830 Spanish Civilization. TEACHING 4060 Teaching World Languages: Theory and Practice is an additional requirement of the School of Education (credits do not count toward minor). Students who major in Spanish must have a grade point average of no lower than a 2.75 in the Spanish courses they take, and meet the education abroad requirement by completing eight to nine credits in our Education Abroad program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted. In addition, Spanish education majors completing a Bachelor of Science degree are required to take either PHILSPHY 1130 Introduction to Philosophy or PHILSPHY 2530 Ethics.

Spanish Minor (24 credits)
The minor requires a total of 24 credits with a minimum of eight credits selected from courses numbered 3000 or higher. Students who minor in Spanish must have a grade point average of no lower than a 2.50 in the Spanish courses they take.

Spanish Education Minor (28 credits)
The minor requires a total of 28 credits with a minimum of 12 credits selected from courses numbered 3000 or higher, including courses in SPANISH 4820 Phonetics and SPANISH 3830 Spanish Civilization. TEACHING 4060 Teaching World Languages: Theory and Practice is an additional requirement of the School of Education (credits do not count toward minor). Likewise, students interested in teaching may satisfy the language immersion requirement by enrolling in the Foreign Language Travel Abroad Seminar for at least two credits. See the Spanish instructor for details. Spanish minors must have a G.P.A. of no lower than a 2.75 in Spanish courses.

Courses:
SPANISH 1840 Elementary Spanish 4 cr
SPANISH 1940 Elementary Spanish 4 cr
SPANISH 2840 Intermediate Spanish 4 cr
SPANISH 2940 Intermediate Spanish 4 cr
SPANISH 3000 Foreign Language Travel 1-4 cr
    Abroad Seminar
(Teaching minors may take at least two credits for purpose of immersion)
SPANISH 3820 Spanish Conversation 2 cr
    and Composition I
SPANISH 3830 Spanish Civilization 3 cr
SPANISH 3840 Topics in Hispanic Literature 1-3 cr
    and Culture
SPANISH 3850 Spanish American Literature 3 cr
    and Culture I
SPANISH 3860 Spanish American Literature 3 cr
    and Culture II
SPANISH 3920 Spanish Conversation 2 cr
    and Composition II
Spanish Literature of the 20th Century 2 cr
Phonetics 2 cr
Introduction to Spanish Literature 3 cr
Supervised Independent Study 1-4 cr
Introduction to Spanish Literature 3 cr

Required School of Education Course:
Teaching World Languages: Theory and Practice 3 cr

(credit does not count toward major or minor)

Latin American Studies Minor (24 credits)
Students earning a Latin American Studies Minor will have the opportunity to more fully understand and address a diverse region intimately-connected with North American topics and careers. In an increasingly globalized world, this minor is essential to orient students toward the unique possibilities and issues related to Latin America.

I. Core Courses: Required of all minors (9 credits)
LATNAMER 2000 Latin America: An Interdisciplinary Introduction (3 credits)
SPAN 3860 Spanish American Literature and Culture II (3 credits)
HIST 3660 Colonial Latin American History (3 credits)

II. Humanities (6 – 9 credits)
SPAN 3820 Spanish Conversation and Composition I (2 credits)
SPAN 3840 Topics in Hispanic Literature and Culture (1-3 credits)
SPAN 3850 Spanish American Literature and Culture I (3 credits)
SPAN 3920 Spanish Conversation and Composition II (2 credits)
SPAN 4850 Independent Study (1-3 credits)

III. Social Sciences (6 – 9 credits)
GEOG 3630 Geography of Latin America (3 credits)
HIST 3650 Women and Gender in Latin American History (3 credits)
HIST 3670 Modern Latin American History (3 credits)
HIST 4230 Issues in History (Latin American Topics) (3 credits)
HIST 4720 Independent Study (1-3 credits)

Study Abroad
Minors are required to study abroad in one of the approved programs: An ISEP program in a Latin American Spanish speaking country or Brazil; a semester/year in Seville, a summer of Spanish or Portuguese language immersion at an accredited institution of higher education, and a short-term study abroad program upon approval. Equivalent courses offered in the study abroad programs can be substituted for electives upon prior approval.

Other elementary language courses meeting the general education competency requirement
1540 Elementary Chinese I 4 cr
1640 Elementary Chinese II 4 cr
1840 Elementary Portuguese I 4 cr
1940 Elementary Portuguese II 4 cr
1010 Introduction to Japanese I 4 cr
1020 Introduction to Japanese II 4 cr

DEPARTMENT OF PERFORMING AND VISUAL ARTS

www.uwplatt.edu/finearts

David Cooper
180 Doudna Hall
608.342.1021
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Amy Udelhofen

Majors
Art
- Art Emphasis
- Graphic Design Emphasis
- Art Education (B-21) Emphasis

Civilization. Students who major in Spanish must have a grade
Music
• Choral Education Emphasis (B-21)
• General Music Education Emphasis (B-21)
• Instrumental Education Emphasis (B-21)
• Instrumental Music Emphasis
• Vocal Music Emphasis
• Piano Emphasis
• Music and Business

Speech Communication
• Speech Communication-Secondary Education

Theatre
• Theatre Emphasis

Minors
Art
Music
Speech Communication
Theatre
About the Department and Majors
The UW-Platteville Department of Performing and Visual Arts offers degree programs in art, music, speech communication, and theatre. Art means two things:
1. Creative works and the process of producing them
2. The whole body of work in the arts that make up the entire human intellectual and cultural heritage

When we study art, we involve ourselves in a particular set of processes, products, influences, and meanings. We recognize that art is expressed in various styles, reflects different historical circumstances, and draws on a multitude of social and cultural resources.

The terms arts, discipline, and art form refer to music, theatre, and the visual arts, and recognize that each of these encompasses a variety of forms and subdisciplines. When we speak of the arts, it means these arts disciplines taken together or, most inclusively, the totality of all the activities in the arts.

At UW-Platteville, speech* is considered a performance-based art.

* National Standards for Arts Education, 1995 MENC.

Art

www.uwplatt.edu/finearts/artmain.htm
Department Chair: David Cooper
Office: 180 Doudna Hall
Phone: 608.342.1021
E-mail: cooperd@uwplatt.edu

Professor:
Steve Vance
Assistant Professor:
Gregory Nelson
Senior Lecturer:
Richard Moninski

Lecturers:
Peter Flanary
Bruce Howdle
Daniel O’Brien
Carole Spelić

About the Department and Major
Programs of study are offered in art, art education, or graphic design, each leading to a Bachelor of Arts or Bachelor of Science degree in the College of Liberal Arts and Education. Students seeking a B-21 certification in art education take the comprehensive art emphasis. Art education majors must complete the College of LAE general requirements, the School of Education proficiency requirements, and the requirements of the basic art emphasis.

Each of the emphases within the art program has a particular goal. The emphasis in graphic design is intended to prepare students for careers in the commercial areas of art. The emphasis in art education prepares students to teach on the elementary, middle, and high school levels. The art emphasis has a more general goal. It can be used as a preparation for graduate school or as a field of study for students interested in art in and of itself.

General Requirements
Bachelor of Arts Degree
Total for graduation.......................... 120 credits
General education............................ 44-58 credits
Major studies.................................. 44-60 credits

Students who wish to receive a Bachelor of Arts degree must:
1. Declare their intention of doing so
2. Demonstrate fourth semester proficiency in a foreign language

Note: There is no B.S. in fine art or graphic design emphases.

Bachelor of Science Degree
Total for graduation.......................... 120 credits
General education............................ 44-58 credits
Major studies.................................. 48-60 credits

Note: There is no B.A. in art education.

All art students (all emphases) must complete a sophomore year portfolio review. See advisor.

Art Major

Bachelor of Arts in Fine Art (Non-Teaching)

Mission Statement
The art program at UW-Platteville is dedicated to high quality instruction in curricula emphasizing art theory, history, and visual art creation. The curriculum is constructed to provide students with the fundamental background and specialized knowledge needed for analysis, understanding, and creation of visual art. The program provides the broad knowledge in art needed to prepare students for graduate study.

Goals for Program Graduates
1. Develop conceptual understanding of art theory and history, as these areas of art study form the basis for informed appreciation of existing works and the creation of new art
2. Develop competence in artistic creation

Art Emphasis (48 credits)

<table>
<thead>
<tr>
<th>ART</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>1010 Drawing I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2310 Drawing II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>3310 Drawing III</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>1410 Painting I</td>
<td>3 cr</td>
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<tr>
<td>ART</td>
<td>2410 Painting II</td>
<td>3 cr</td>
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<tr>
<td>ART</td>
<td>3440 Painting III</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>1420 Basic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>1520 Basic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>1740 Introduction to Digital Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2140 Art History I</td>
<td>3 cr</td>
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<tr>
<td>ART</td>
<td>2210 Art History II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2730 Art History IV</td>
<td>3 cr</td>
</tr>
<tr>
<td>or ART</td>
<td>3340 Art History III</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART</td>
<td>3530 Art History V</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>4230 Theory of Art</td>
<td>3 cr</td>
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<tr>
<td>ART</td>
<td>4930 Presentation and Marketing</td>
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<tr>
<td>ART</td>
<td>4950 Senior Show</td>
<td>1 cr</td>
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Electives: 6 ART credits

Graphic Design Emphasis (49 credits)

<table>
<thead>
<tr>
<th>ART</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>2910 Drawing II</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Art Education Bachelor of Fine Arts

Mission Statement
The art program at UW-Platteville is dedicated to high quality instruction in curricula emphasizing art theory, history, and visual art creation. The Bachelor of Science in art education curriculum is constructed to provide students with the fundamental background and specialized knowledge needed to analyze, understand, create, and teach visual arts. The faculty of the art program seek to prepare students with the knowledge and skills to be successful art educators.

Goals for Program Graduates
1. Develop conceptual understanding of art theory and history, which are the foundation for all areas of art study
2. Develop competence in the area of artistic creation
3. Demonstrate potential to effectively communicate knowledge about art and the creation of art to elementary, middle level, and secondary school students
4. Learn how to make informed decisions about appropriate curricula for elementary, middle level, and secondary students

Concentrations (choose one):

**New Media Concentration**
- MEDIA 2090 Principles of Interactivity 3 cr
- MEDIA 3030 Multimedia Projects 3 cr

**Photography Concentration**
- MEDIA 3500 Photography II 3 cr
- MEDIA 4500 Photography III 3 cr

Bachelor of Science in Fine Arts

Art Education

Art Education Emphasis (59 credits)

**Required Courses:**
- ART 1410 Painting I 3 cr
- ART 2310 Drawing II 3 cr
- ART 4230 Theory of Art 3 cr
- ART 2410 Painting II 3 cr
- ART 2140 Art History I 3 cr
- ART 2210 Art History II 3 cr
- ART 3310 Drawing III 3 cr
- ART 1520 Basic Design II 3 cr
- ART 2510 Sculpture I: Basic 3 cr
- ART 4110 Painting III 3 cr
- ART 4230 Theory of Art 3 cr
- ART 4520 Ceramics I 3 cr
- ART 4530 Art Education I: Elementary/ Middle School Methods 3 cr
- ART 4630 Art Education II: Middle/ High School Methods 3 cr
- ART 4930 Presentation and Marketing 2 cr
- ART 4950 Senior Show 1 cr

**Electives:**
Select 3 ART credits

Art Minor (24 credits)

**Required Courses:**
- ART 1010 Drawing I 3 cr
- ART 2140 Art History I 3 cr
- ART 2140 Art History II 3 cr
- ART 2210 Art History II 3 cr
- ART 4230 Theory of Art 3 cr

Electives: 3 ART credits

Art Core Programs
Suggested first year core for art emphasis, art education emphasis, and graphic design emphasis:

**Year 1 - First Semester:**
- Drawing I 3 cr
- Painting I 3 cr
- Basic Design I 3 cr
- General requirements

**Year 1 - Second Semester:**
- Drawing II 3 cr
- Painting II 3 cr
- Basic Design II 3 cr
- General requirements—Suggested second year core for fine art emphasis:

Graphic design emphasis majors are required to have a minor in imaging media from the UW-Platteville Department of Media Studies. The course requirements include: MEDIA XXXX Software: Any 4 courses 4 cr, MEDIA 1230 Survey of Imaging 3 cr, MEDIA 1630 Introduction to Mass Media 3 cr, MEDIA 1930 Basic Photography 3 cr, and MEDIA 3070 History of Imaging 3 cr.
Year 2 - First Semester:
- Painting III 3 cr
- Introduction to Digital Media 3 cr
- Art History I 3 cr
General requirements

Year 2 - Second Semester:
- Drawing III 3 cr
- Art History II 3 cr
- Sophomore portfolio review 3 cr
General requirements

Suggested second year core for graphic design emphasis:

Year 2 - First Semester:
- Graphic Design I 3 cr
- Art History I 3 cr
- Minor courses 1-3 cr
General requirements

Year 2 - Second Semester:
- Graphic Design II 3 cr
- Art History II 3 cr
- Minor courses 1-3 cr
Sophomore portfolio review
General requirements

Suggested second year core for art education emphasis:

Year 2 – First Semester:
- Introduction to Digital Media 3 cr
- Ceramics I 3 cr
- Art History I 3 cr
General requirements

Year 2 – Second Semester:
- Drawing III 3 cr
- Art History II 3 cr
- Sculpture I 3 cr
Sophomore portfolio review
General requirements

Music

www.uwplatt.edu/music

Department Chair: David Cooper
Office: 180 Doudna Hall
Phone: 608.342.1021
E-mail: cooperd@uwplatt.edu

Professors: Eugene Alcalay Robert K.
Demaree Barry L.
Ellis
G. Daniel Fairchild

Associate Professors: David Cooper

Assistant Professor: Susan Savage Day
Thomas Dickey
Jacqueline Wilson

Lecturers: Mark Bridges Brian
Burns Elaina
Burns Carol
Carlson Allen
Cordingley
Rebekah Demaree
David Earl
Nancy Fairchild
Matthew Gregg
Keith Lienert
Corey Mackey
Elizabeth Marshall
Robert Shepherd

About the Music Program and Major

The UW-Platteville Department of Performing and Visual Arts music program is designed to promote performance of music, the study of musical structure and form, and knowledge of the history of music, as well as the teaching of music. As one of the principal fine arts, music is the art that most deals with emotion and the one that directly communicates to the listener. Performance opportunities exist that help provide a rich cultural life for the campus, community, and region.

Programs of music study leading to a Bachelor of Science or a Bachelor of Arts degree with and without music education certification are offered in the College of Liberal Arts and Education. Students who plan to teach at the elementary, middle school, or secondary level may choose instrumental, choral, general music or combined certification programs (see advisors in the music unit of the Department of Performing and Visual Arts). Other degree emphases are available in instrumental music, vocal music, and music and business.

Music education majors complete the College of LAE general requirements, the School of Education proficiency requirements, the basic core curriculum for music majors, and depth courses in music.

All students intending to become licensed teachers must satisfy the requirements outlined in the teacher licensure section listed under School of Education.

The UW-Platteville Department of Performing and Visual Arts/ Music is an accredited institutional member of the National Association of Schools of Music.

A degree in music may lead to a career in traditional areas such as teaching, performing, composing and arranging, or to a career involving business, computers, and recording technology.

The music unit at UW-Platteville is designed to provide many musical experiences and training. Close contact with faculty and modern facilities such as acoustically designed concert rehearsal and concert halls in the Center for the Arts are important features at UW-Platteville.

The music unit of the UW-Platteville Department of Performing and Visual Arts serves the student body and region as a cultural resource by providing general courses for all students, and specialized courses leading to those occupations requiring musical expertise. Recognizing that culturally aesthetic enrichment is a vital part of university life, a goal of the music unit is to provide high quality instructional experiences through performances by guest and faculty artists, and student performing organizations.

Students of all academic disciplines are encouraged to participate in a music organization.

General Requirements

Bachelor of Science Degree

Total for graduation ..................................... 120 credits
General education .................................... 44-58 credits
Music courses ........................................ 56-72 credits
Professional education courses
(music majors only) .................................... 28 credits
Bachelor of Arts Degree

Students who wish to receive a Bachelor of Arts instead of a Bachelor of Science must:
1. Declare their intention of doing so
2. Meet the requirements for a B.S.
3. Demonstrate fourth semester proficiency in a foreign language

**Note: There is no B.A. in music education.**

Mission Statement

**Bachelor of Science in Music Education**
The music program at UW-Platteville is dedicated to high quality instruction in curricula emphasizing music theory, history, and performance. The Bachelor of Science in music education curriculum is constructed to provide students with the fundamental background and specialized knowledge needed for analysis, understanding, performance, and teaching of music. We seek to assist in preparing students with the knowledge and skills to be successful music educators.

Goals for Program Graduates

1. Develop conceptual understanding of music theory and music history, as these areas of music study form the basis for listening, composing, and performing
2. Develop competence in music performance
3. Demonstrate potential to effectively communicate knowledge about music and music making to elementary, middle level, and secondary school students
4. Learn how to make informed decisions about appropriate curricula for elementary, middle level, and secondary school students

Music Education Major

Students must take the core courses listed below and an area of emphasis.

**Music Education Core Courses (59 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC</td>
<td>1090 Bodywork for Musicians</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>1190 World Rhythm Rudiments</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>1290 Computer Applications in Music Education</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>1730 Music Theory I - Music Theory Fundamentals w/MIDI</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>1830 Music Theory II - Tonal Music Theory w/MIDI</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>1530 Aural Skills I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>1630 Aural Skills II</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>2250 History and Literature of Western Music I</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>2350 History and Literature of Western Music II</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>2450 World Music Survey</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>2530 Aural Skills III</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>2730 Music Theory III - Advanced Tonal Theory, Counterpoint, and Composition</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>2920 Beginning Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>3250 History and Literature of Western Music III</td>
<td>2 cr</td>
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</tbody>
</table>

**Western Music III**

**Choral Music Education Emphasis—B-21 (70 credits)**

Includes Music Education Core Courses (59 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC</td>
<td>2770 Diction I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>2870 Diction II</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>3160 Elementary Music Methods for Non-Music Majors</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>3460 Choral Music Methods I</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>3560 Choral Music Methods II</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>4320 Advanced Conducting - Choral</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

*Pianists must add four credits of voice or secondary instrument determined by the certification desired.*
General Music Education Emphasis–B-21
(66 credits)
Includes Music Education Core Courses (59 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 3860</td>
<td>Elementary Music Methods (for majors)</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3760</td>
<td>Secondary General Music Methods</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUAP 2600</td>
<td>Applied Voice</td>
<td>2 cr</td>
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</table>

Instrumental Music Education Emphasis–B-21 (73 credits)
Includes Music Education Core Courses (59 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 2170</td>
<td>High Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2270</td>
<td>Low Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2370</td>
<td>Percussion Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2470</td>
<td>String Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2570</td>
<td>High Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2670</td>
<td>Double Reed Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3260</td>
<td>Instrumental Music Methods I</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3360</td>
<td>Instrumental Music Methods II</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3660</td>
<td>Jazz Techniques</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4230</td>
<td>Advanced Conducting - Instrumental</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Pianists may substitute MUSIC 3440 Accompanying 1 cr in the performing group requirements.

*Pianists must add four credits of voice or secondary instrument determined by the certification desired.
Bachelor of Arts in Music

Mission Statement
The music program at UW-Platteville is dedicated to high quality instruction in curricula emphasizing music theory, history, and performance. The Bachelor of Arts in music (non-teaching) curriculum is constructed to provide students with the fundamental background and specialized knowledge needed for analysis, understanding, performance, and teaching of music. The program provides the broad knowledge in music to prepare students for graduate study in music.

Goals for Program Graduates
1. Develop conceptual understanding of music theory and music history, as these areas of music study form the basis for listening, composing, and performing
2. Develop competence in music performance

Music Non-Teaching Major
Students must take the core courses listed below and an area of emphasis.

Non-Teaching Core Courses (53 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 1090</td>
<td>Bodywork for Musicians</td>
<td>1 cr</td>
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<tr>
<td>MUSIC 1190</td>
<td>World Rhythm Rudiments</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1290</td>
<td>Computer Applications in Music</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1730</td>
<td>Music Theory I - Music Theory Fundamentals w/MIDI</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 1830</td>
<td>Music Theory II - Tonal Music Theory w/MIDI</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 1530</td>
<td>Aural Skills I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1630</td>
<td>Aural Skills II</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2730</td>
<td>Music Theory III - Advanced Tonal Theory, Counterpoint, and Composition</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3730</td>
<td>Music Theory IV - Form and Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 2530</td>
<td>Aural Skills III</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3630</td>
<td>Aural Skills IV</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3830</td>
<td>Music Theory V - 20th Century Music Theory</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 2450</td>
<td>World Music Survey</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 2250</td>
<td>History and Literature of Western Music I</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 2350</td>
<td>History and Literature of Western Music II</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3250</td>
<td>History and Literature of Western Music III</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3350</td>
<td>History and Literature of Western Music IV</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 2920</td>
<td>Beginning Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4290</td>
<td>Music Media, MIDI and Recording Technology</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Performing Organizations (Major Ensemble)</td>
<td>8 cr</td>
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<tr>
<td>MUSIC</td>
<td>Master Class/Convocation (7 semesters)</td>
<td>0 cr</td>
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<tr>
<td>MUAP</td>
<td>Applied Instrument or Voice</td>
<td>7 cr</td>
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<tr>
<td>MUAP</td>
<td>Recitals Semester</td>
<td>2 cr</td>
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Instrumental Music Emphasis (64 credits)
Non-Teaching Core Courses (53 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 1340</td>
<td>Piano Techniques 1st Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1440</td>
<td>Piano Techniques 2nd Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2340</td>
<td>Piano Techniques 3rd Semester</td>
<td>1 cr</td>
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<tr>
<td>MUSIC 2440</td>
<td>Piano Techniques 4th Semester</td>
<td>1 cr</td>
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<td></td>
<td>Music electives</td>
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</table>

Electives (5 credits):

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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 2170</td>
<td>High Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2270</td>
<td>Low Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2370</td>
<td>Percussion Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2470</td>
<td>String Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2570</td>
<td>High Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2670</td>
<td>Double Reed Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3170</td>
<td>String Pedagogy</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3430</td>
<td>Jazz Improvisation and Theory</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3530</td>
<td>Orchestration and Arranging</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3920</td>
<td>Intermediate Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4230</td>
<td>Advanced Conducting - Instrumental</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3280</td>
<td>Wind Literature</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Performing Organization</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>(1 extra organization)</td>
<td></td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Lessons (1 extra semester)</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

Vocal Music Emphasis (64 credits)
Non-Teaching Core Courses (53 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 2770</td>
<td>Diction I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2870</td>
<td>Diction II</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1340</td>
<td>Piano Techniques 1st Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1440</td>
<td>Piano Techniques 2nd Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2340</td>
<td>Piano Techniques 3rd Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2440</td>
<td>Piano Techniques 4th Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>Music electives</td>
<td>5 cr</td>
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</tbody>
</table>

Electives (5 credits):

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MUSIC 2020</td>
<td>Music Theatre</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3270</td>
<td>Vocal Pedagogy</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3430</td>
<td>Jazz Improvisation and Theory</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3530</td>
<td>Orchestration and Arranging</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3920</td>
<td>Intermediate Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4320</td>
<td>Advanced Conducting - Choral</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3380</td>
<td>Choral Literature</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 1XX0</td>
<td>Performing Organization</td>
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<tr>
<td></td>
<td>(1 extra organization)</td>
<td></td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Voice (1 extra semester)</td>
<td>1 cr</td>
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Piano Emphasis (65 credits)
Non-Teaching Core Courses (53 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 3440</td>
<td>Accompanying (2 semesters)</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3370</td>
<td>Piano Pedagogy</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Second instrument or voice applied lessons</td>
<td>4 cr</td>
</tr>
<tr>
<td></td>
<td>Music Electives</td>
<td>2 cr</td>
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Electives (5 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 3430</td>
<td>Jazz Improvisation and Theory</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3530</td>
<td>Orchestration and Arranging</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3920</td>
<td>Intermediate Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 1XX0</td>
<td>Performing Organization</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>(1 extra organization)</td>
<td></td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Lessons (1 extra semester)</td>
<td>1 cr</td>
</tr>
</tbody>
</table>
Music and Business Emphasis (80 credits)

Required Music Courses (56 credits):

Music 1290 Computer Applications in 1 cr
Music Education
Music 1730 Music Theory I - Music Theory 3 cr
Fundamentals w/MIDI
Music 1830 Music Theory II - 3 cr
Tonal Music Theory w/MIDI
Music 1530 Aural Skills I 1 cr
Music 1630 Aural Skills II 1 cr
Music 2730 Music Theory III - Advanced Tonal 3 cr
Theory, Counterpoint, and Composition
Music 3730 Music Theory IV - Form and Analysis 3 cr
Music 2530 Aural Skills III 1 cr
Music 3630 Aural Skills IV 1 cr
Music 2250 History and Literature of 2 cr
Western Music I
Music 2350 History and Literature of 2 cr
Western Music II
Music 3250 History and Literature of 2 cr
Western Music III
Music 3350 History and Literature of 2 cr
Western Music IV
Music 3830 Music Theory V: 2 cr
20th Century Music Theory
Music 4290 Music Media, MIDI and 2 cr
Recording Technology
Music 4510 Seminar in Music Business I 2 cr
Music 4520 Seminar in Music Business II 2 cr
MUAP xxx Applied Instrument or Voice 4 cr
Music 1xx0 Performing Organizations 7 cr
(Major Ensemble)
Music 1340 Piano Techniques 1st Semester 1 cr
Music 1440 Piano Techniques 2nd Semester 1 cr
Music 2340 Piano Techniques 3rd Semester 1 cr
Music 2440 Piano Techniques 4th Semester 1 cr
Music Master Class/Convocation (7 semesters) 0 cr
MUAP 4910 Recitals (one-half minimum) 2 cr
Music electives 6 cr

Electives (6 credits):

Music 2170 High Brass Techniques 1 cr
Music 2270 Low Brass Techniques 1 cr
Music 2370 Percussion Techniques 1 cr
Music 2470 String Techniques 1 cr
Music 2570 High Woodwind Techniques 1 cr
Music 2670 Double Reed Woodwind Techniques 1 cr
Music 3430 Jazz Improvisation and Theory 3 cr
Music 3530 Orchestration and Arranging 2 cr
Music 3920 Intermediate Conducting 2 cr
Music 3280 Wind Literature 2 cr
Music 3380 Choral Literature 2 cr
Music 4290 Music Media, MIDI, and Recording 2 cr
Technology

Required Business Courses (24 credits):

ACCTING 2010 Financial Accounting I 3 cr
ACCTING 2020 Management Accounting II 3 cr
BUSADMIN 1200 Introduction to American 3 cr
Business Enterprise
BUSADMIN 4990 Internship* (in a music related field) 1-8 cr
BUSADMIN Electives 4-11 cr

*Consult advisor to determine hours credited for internship

Music Minor (26 credits)

Music 1090 Bodywork for Musicians 1 cr
Music 1190 World Rhythm Rudiments 1 cr
Music 1730 Music Theory I: 3 cr
Music Theory Fundamentals w/MIDI
Music 1830 Music Theory II: 3 cr
Tonal Music Theory w/MIDI
Music 1530 Aural Skills I 1 cr
Music 1630 Aural Skills II 1 cr
Music 2350 History and Literature of 2 cr
Western Music II
Music 3250 History and Literature of 2 cr
Western Music III
Music 3350 History and Literature of 2 cr
Western Music IV
Music 1340 Piano Techniques 1st Semester 1 cr
Music 1440 Piano Techniques 2nd Semester 1 cr
Music Master Class/Convocation (4 semesters) 0 cr
MUAP Applied Instrument or Voice 4 cr

Departmental Policies

A grade of "C" or better is required for music majors to receive credit in all music courses. The performing organization requirements may be fulfilled only through Wind Ensemble, Symphony Band, Jazz Ensemble I, Orchestra, Marching Band, University Singers, and Chamber Choir.

Instrumental music education majors must participate in Marching Band for a minimum of 4 credits. Any student receiving applied instruction must also be enrolled in an ensemble listed above using the same instrument or voice as their private instruction.

Courses Offered

Applied Music

Private instruction in voice, piano, and orchestra and band instruments. Must be concurrently enrolled in Wind Ensemble, Symphony Band, Jazz Ensemble I, Orchestra, Marching Pioneers, University Singers or Chamber Choir. One half-hour lesson per week per credit. There are no applied music fees above the regular tuition charge, but special course fees (i.e., purchase of music) may apply. Lesson times and instructors to be arranged.

Prerequisites for MUAP 3010, 3110, 4010, 4110:

Successful completion of the Music Upper Divisional Examination. (Any student who fails to successfully complete the Music Upper Divisional Examination will be administratively dropped from the appropriate classes).

MUAP 1010 First semester 1 cr
MUAP 1110 Second semester 1 cr
MUAP 2010 Third semester 1 cr
MUAP 2110 Fourth semester 1 cr
MUAP 3010 Fifth semester 1 cr
MUAP 3110 Sixth semester 1 cr
MUAP 4010 Seventh semester 1 cr
MUAP 4110 Eighth semester 1 cr
MUAP 4910 Recital semester 2 cr

Section A - Piano
Section B - Voice
Improving oral communication skills through the study of the speech major will make graduates more valuable and effective professionals in their employers, communities, and nation.

The objective of the speech minor is to equip the graduate with the necessary skills, knowledge, and attitude to speak with and listen to others effectively, whether one-on-one, in a group, or part of a team.

A minor in speech is an excellent complement to most other majors on campus, as well as to the pre-professional programs.

Improving oral communication skills through the study of speech will make graduates more valuable and effective professional assets to their employers, communities, and nation.

Speech Communication
www.uwplatt.edu/finearts/speechmain.htm

Department Chair: David Cooper
Office: 180 Doudna Hall
Phone: 608.342.1021
E-mail: cooperd@uwplatt.edu

Associate Professor:
Daniel Dahlquist

Lecturers:
Martin Chislom
Connie SaLoutos Furlan
Jeffrey Tebbe
Tiffany Vance

About the Program and Minor
The speech communication program offered by the UW-Platteville Department of Performing and Visual Arts is the study of human communication—people speaking and listening to one another. Speaking and listening are the most basic communication activities of our waking hours. The speech minor emphasizes communication as the foundation for all successful human activity.

The objective of the speech minor is to equip the graduate with the necessary skills, knowledge, and attitude to speak with and listen to others effectively, whether one-on-one, in a group, or part of a team.

A minor in speech is an excellent complement to most other majors on campus, as well as to the pre-professional programs.

Improving oral communication skills through the study of speech will make graduates more valuable and effective professional assets to their employers, communities, and nation.

Speech Communication Minor (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 1430</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 1930</td>
<td>3</td>
</tr>
<tr>
<td>SPEECH 2250</td>
<td>3</td>
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<tr>
<td>ENGLISH 3940</td>
<td>3</td>
</tr>
<tr>
<td>SPEECH 3010</td>
<td>1</td>
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<tr>
<td>SPEECH 3250</td>
<td>3</td>
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<tr>
<td>SPEECH 3500</td>
<td>3</td>
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<tr>
<td>SPEECH 4500</td>
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Department of Public Instruction certification for teaching required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MEDIA 1630</td>
<td>3</td>
</tr>
<tr>
<td>SPEECH 2010</td>
<td>3</td>
</tr>
</tbody>
</table>

(required as a general education requirement instead of SPEECH 1010 Public Speaking)

SPEECH 3990 Teaching Methods in Speech 3 cr

Communication

Theatre

www.uwplatt.edu/finearts/theatre/

Department Chair: David Cooper
Office: 180 Doudna Hall
Phone: 608.342.1021
E-mail: cooperd@uwplatt.edu

Associate Professors:
Ann Dillon Farrelly
David Schuler

Assistant Professor:
Jeffrey Strange

Lecturer:
Connie SaLoutos Furlan
Sarah Strange

About the Department and Major

Theatre is an ancient art form that has been included in academic study for thousands of years. Theatre provides an opportunity for the synthesis of multiple academic disciplines, including dance, music, art, literature, psychology, history, philosophy, engineering, and various technologies.

The UW-Platteville Department of Performing and Visual Arts-Theatre degree is designed to serve students who will be pursuing a career in theatre performance, technical theatre, theatre education or continuing further study in the field at the graduate level.

The theatre program at UW-Platteville offers numerous hands-on learning opportunities. Students in the program have the opportunity to work both onstage and behind the scenes, learning every facet of the theatrical production process. Along with our student organization, Pioneer Players, the UW-Platteville theatre program produces a six-show season every year—one or two musical productions and four non-musical productions. Two of our six productions are student-driven projects.

Balancing traditional coursework and practical training, the theatre students at UW-Platteville enjoy individualized attention and smaller class sizes not usually offered in larger programs. They are also given the opportunity to work on cutting edge and classical material, from the Greeks to the newest plays in the Broadway season.
Theatre is not just an artform, but it is also a business. It takes many different people with a variety of different skill sets to produce theatre, which creates a breadth of employment opportunities. Some of the occupations associated with the theatre field include: accountants, actors, arts administrators, agents, artistic directors, board operators, booking associates, box office managers, business managers, buyers, casting directors, company managers, costume designers, costume builders, creative drama instructors, critics, development directors, directors, drama therapists, dramaturgs, electricians, film/cinema professionals, fine arts facilitators, garment cutters, house managers, librettists, lighting designers, lighting technicians, literary managers, lyricists, makeup specialists, managing directors, marketing directors, master electricians, milliners, music directors, painters, print makers, personal managers, playwrights, puppetry artists, producers, production managers, properties designers/managers, publicists, radio and television professionals, rental managers, riggers, scenic artists, set designers, stage combat instructors, stagehands, stage managers, stage movement specialists, stitchers, teachers, technical directors, tour managers, voice and diction specialists, and wig designers.

All students intending to become licensed teachers must satisfy the requirements outlined in the teacher licensure section listed under School of Education in this catalog.

Program of study leads to a Bachelor of Arts degree.

**General Requirements**

**Bachelor of Arts Degree**

Total for graduation.......................... 120 credits  
General education ............................ 44-58 credits  
Major studies .................................. 45 credits

Students must demonstrate second-semester proficiency in a foreign language.

Students must have a cumulative grade point average of 2.50 within the major studies for graduation.

**Mission Statement**

**Bachelor of Arts in Fine Arts –Theatre Emphasis**

The theatre program at UW-Platteville is dedicated to high quality instruction in curricula emphasizing theatre history, stagecraft, literature, directing, and acting. The curriculum is structured to provide students with the fundamental background and specialized knowledge needed for analysis and understanding of theatre theories and practices.

The degree is designed to serve students who will be pursuing a career in theatre performance, technical theatre or continued study in the field at the graduate level. Theatre majors may also seek Wisconsin DPI certification in theatre.

**Goals for Program Graduates**

1. Graduates will develop and demonstrate a breadth of knowledge and contextual understanding of theatre history, theory, and dramatic literature, as these areas of theatre study form the foundation for all areas of theatre production.

2. Graduates will develop and demonstrate competency in areas of theatre production/performance – acting, directing, stage management, and design – culminating in a senior capstone project.

3. Graduates will develop and demonstrate competency in critical and analytical thinking skills by effectively communicating and implementing their knowledge of theatre in numbers one and two above both verbally and in writing.

**Theatre Emphasis (45 credits)**

**Required:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THEATRE 1130</td>
<td>Introduction to Theatre</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 1230</td>
<td>Stagecraft</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 1340</td>
<td>Introduction to Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 2730</td>
<td>Beginning Acting</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3130</td>
<td>Play Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4330</td>
<td>Directing</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4630</td>
<td>History of Theatre I</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4730</td>
<td>History of Theatre II</td>
<td>3 cr</td>
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<tr>
<td>THEATRE 4930</td>
<td>Senior Capstone</td>
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**Students must complete six credits of the following (at least two in Practicum II):**

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<th>Credits</th>
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<tbody>
<tr>
<td>THEATRE 2220</td>
<td>Practicum I</td>
<td>1 cr</td>
</tr>
<tr>
<td>THEATRE 3450</td>
<td>Practicum II</td>
<td>1 cr</td>
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**One of the following:**

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<tr>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>THEATRE 3210</td>
<td>Lighting Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3240</td>
<td>Costume Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3250</td>
<td>Scenic Design</td>
<td>3 cr</td>
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**One of the following:**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>THEATRE 4210</td>
<td>Dramatic Literature I</td>
<td>3 cr</td>
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<tr>
<td>THEATRE 4220</td>
<td>Dramatic Literature II</td>
<td>3 cr</td>
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</table>

**Electives:**

Students must complete six hours of electives

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>THEATRE 1930</td>
<td>Voice and Diction</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 2500</td>
<td>Topics in Theatre</td>
<td>1-3 cr</td>
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<tr>
<td>THEATRE 2900</td>
<td>Dance for Musical Theatre</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 2930</td>
<td>Actor in Musical Theatre</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 2950</td>
<td>Movement for Theatre</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3220</td>
<td>Teaching Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3400</td>
<td>Drafting the Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3830</td>
<td>Advanced Scene Study</td>
<td>3 cr</td>
</tr>
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<td>THEATRE 3900</td>
<td>Intermediate Dance</td>
<td>3 cr</td>
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<tr>
<td>THEATRE 3920</td>
<td>Classical Acting</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4830</td>
<td>Seminar in Theatre</td>
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**Majors seeking DPI certification for teaching are also required to take the following course:**

<table>
<thead>
<tr>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
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<td>3 cr</td>
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</table>
Theatre Minor (30 credits)

Required:

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<tr>
<td>THEATRE 1130</td>
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<td>3 cr</td>
</tr>
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<td>THEATRE 1230</td>
<td>Stagecraft</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 1340</td>
<td>Introduction to Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 2730</td>
<td>Beginning Acting</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3130</td>
<td>Play Analysis</td>
<td>3 cr</td>
</tr>
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</table>

Students must complete three credits of the following (at least one in Practicum II):

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>THEATRE 2220</td>
<td>Practicum I</td>
<td>1 cr</td>
</tr>
<tr>
<td>THEATRE 3450</td>
<td>Practicum II</td>
<td>1 cr</td>
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One of the following:

<table>
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</thead>
<tbody>
<tr>
<td>THEATRE 4210</td>
<td>Dramatic Literature I</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4220</td>
<td>Dramatic Literature II</td>
<td>3 cr</td>
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</table>

One of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>THEATRE 4630</td>
<td>History of Theatre I</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4730</td>
<td>History of Theatre II</td>
<td>3 cr</td>
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</tbody>
</table>

Electives:

Students must complete six hours of electives

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<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
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<td>THEATRE 1930</td>
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<td>THEATRE 3220</td>
<td>Teaching Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3230</td>
<td>Lighting Design</td>
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<tr>
<td>THEATRE 3240</td>
<td>Costume Design</td>
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</tr>
<tr>
<td>THEATRE 3250</td>
<td>Scenic Design</td>
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</tr>
<tr>
<td>THEATRE 3400</td>
<td>Drafting the Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3830</td>
<td>Advanced Scene Study</td>
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<tr>
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<td>Intermediate Dance</td>
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<td>THEATRE 3920</td>
<td>Classical Acting</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4330</td>
<td>Directing</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4630</td>
<td>Seminar in Theatre</td>
<td>3 cr</td>
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</table>

Minors seeking DPI certification for teaching are also required to take the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>THEATRE 5220</td>
<td>Teaching Methods</td>
<td>3 cr</td>
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Students needing certification are encouraged to complete:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THEATRE 4330</td>
<td>Directing</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4630</td>
<td>History of Theatre I</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4730</td>
<td>History of Theatre II</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Musical Theatre Minor (30 credits)

Required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 1130</td>
<td>Introduction to Theatre</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 1230</td>
<td>Stagecraft</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 1340</td>
<td>Introduction to Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 2730</td>
<td>Beginning Acting</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 2900</td>
<td>Dance for Musical Theatre</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3130</td>
<td>Play Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4730</td>
<td>History of Theatre II</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 2750</td>
<td>History of American Musical Theatre</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Voice</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Students must complete three credits of the following (at least one in Practicum II):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 2220</td>
<td>Practicum I</td>
<td>1 cr</td>
</tr>
<tr>
<td>THEATRE 3450</td>
<td>Practicum II</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

DEPARTMENT OF PSYCHOLOGY

www.uwplatt.edu/psychology

Department Chair: Elizabeth Gates
Office: 231 Warner Hall
Phone: 608.342.1724

E-mail: gatese@uwplatt.edu

Professor Emeritus: William K. Miller

Assistant Professor: Sean Shiverick

Professors:
Corinne Enright
Elizabeth Gates
Chetna Narayan
Theron Parsons
Joan E. Riedle
Marc Wruble

Majors
Psychology
Human Services Emphasis

Substance Abuse Counseling Emphasis

Lecturers:
Amy Baus Becky Fernette Craig Miller
Rita Udelhoven

Academic Department Associate:
Sue Vavricka
The primary goal of the UW-Platteville Psychology Department is to prepare students for professional human service roles and/or graduate study in psychology and related fields. Our program fosters (1) the requisite core of knowledge about the discipline, (2) an exposure to applied aspects of the field, and (3) a greater awareness of self, others, and sociocultural influences. This goal serves the institution’s mission of broadening students’
perspectives, increasing their ethical sensitivity, and preparing them for their ultimate roles as competent professionals.

**Student Learning Outcomes for the Psychology Major**

The department adopts as objectives the 10 guidelines developed by the American Psychological Association Task Force on Undergraduate Major Competencies.

**Student learning outcomes specific to the discipline are:**

1. Graduates will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
2. Graduates will understand and apply basic research methods in psychology, including research design, data analysis, and interpretation.
3. Graduates will respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solving problems related to behavior and mental processes.
4. Graduates will understand and apply psychological principles to personal, social, and organizational issues.
5. Graduates will be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a discipline.

**Student Learning Outcomes fulfilled as part of a Liberal Arts Education and enhanced in the Psychology Program:**

1. Graduates will demonstrate information competence and the ability to use computers and other technology for many purposes.
2. Graduates will be able to communicate effectively in a variety of formats.
3. Graduates will recognize, understand, and respect the complexity of sociocultural and international diversity.
4. Graduates will develop insight into their own and others’ behavior and mental processes and apply effective strategies for self-management and self-improvement.
5. Graduates will emerge from the major with realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings.

**About the Department and Major**

Psychology is the empirical and theoretical study of behavior and mental life. It is a science that investigates the causes and dynamics of behavior patterns, and it is a profession that applies knowledge, skills, and techniques to the solutions of individual and social problems.

A psychologist may be either a scientist, a practitioner, or both, who specializes in the study of behavior and the treatment of behavior-related problems. Educational and professional experiences help the psychologist to understand normal human developmental patterns and how people normally perceive, think, and behave in a wide variety of environments and under many different conditions. The scientist conducts research to add to the ever-expanding font of knowledge available to colleagues and the general public.

The practitioner is trained to provide professional assistance to children, adolescents, and adults, as well as to couples, families, and groups and may also provide services to schools, agencies, organizations, industries, and institutions.

**Students major in psychology for a variety of reasons:**

1. as preparation for graduate work in psychology
2. as a liberal arts preparation for employment in a wide variety of semi-professional or psychology-related fields, including management and personnel work, sales and services, and social service work
3. as a second major in support of a more vocationally-oriented major. Many psychology majors also major in criminal justice, business, and other related fields
4. a significant number of students major in psychology as pre-professional undergraduates in preparation for law, clergy or medicine, or to complete a bachelor’s degree for nursing. Others have no more specific goal in mind than to obtain a high quality liberal arts education

In cooperation with the Department of Criminal Justice, undergraduate psychology majors may complete the coursework needed for the State of Wisconsin Social Worker Training Certificate.

**General Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY 1130</td>
<td>General Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 2230</td>
<td>Introduction to Experimental Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3960</td>
<td>Behavioral Research I</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3970</td>
<td>Behavioral Research II</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4330</td>
<td>History and Systems of Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 1830</td>
<td>Elementary Statistics*</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3000</td>
<td>Technical Writing*</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

* Does not count toward the 37 credits for the major.

**Psychology Major (37 credits)**

All majors will complete the required sequence of courses. Majors are advised to select either the human services emphasis or the substance abuse emphasis, or to pursue a career-related minor or second major.

**Core Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY 2530</td>
<td>Psychology of Women</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 2930</td>
<td>Human Behavior in the Social Environment</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3130</td>
<td>Child Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3230</td>
<td>Adolescent Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3990</td>
<td>Psychology of Adulthood and Aging</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4030</td>
<td>Theories of Personality</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4830</td>
<td>Psychology and the Law</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Elective Category 1: Applied Courses (6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY 3000</td>
<td>Cognitive Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3030</td>
<td>Learning and Behavior</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
**Course Grade and Prerequisite Requirements**

1. A grade of "C-" or better must be earned in all psychology courses that contribute to the 37 credit requirement for a psychology major.
2. A grade of "C-" or better is required in PSYCHLGY 1130 General Psychology in order to enroll in PSYCHLGY 2230 Introduction to Experimental Psychology.
3. A grade of "C-" or better is required in PSYCHLGY 2230 Introduction to Experimental Psychology in order to enroll in PSYCHLGY 3960 Behavioral Research I and PSYCHLGY 3970 Behavioral Research II.
4. Elementary Statistics (MATH 1830) must be successfully completed ("D" or better) before taking Behavioral Research I (PSYCHLGY 3960).

**Graduate Writing Requirements**

In addition to the completion of 37 credits in psychology, all psychology majors must also successfully complete the following writing requirements:

1. Completion of English 1130, 1230, and 3000 with a minimum grade of "C-", or verification of testing out of 1130 by the Department of Humanities (English)
2. Completion of Technical Writing (English 3000) is required
3. Satisfactory completion of papers in those courses in which papers are required, which are evaluated for ability to communicate in written form as well as knowledge of psychological concepts
4. Students must successfully complete six credits of writing intensive courses. Behavioral Research I and II are designated as writing intensive courses

**Human Services Emphasis**

This includes appropriate selection of electives from the elective categories of the psychology major plus additional courses, requiring 15-18 credits beyond the minimum 37 for the major. The coursework in this emphasis is recommended by the Psychology Department to students interested in pursuing a career in the human service professions.

**Required Courses:**

- PSYCHLGY 4430 Abnormal Psychology 3 cr
- PSYCHLGY/CJ 4840 Substance Abuse I: Theory and Assessment 3 cr
- PSYCHLGY 4930 Techniques of Counseling 3 cr
- PSYCHLGY 4940 Advanced Techniques of Counseling and Psychotherapy 3 cr
- PSYCHLGY 4950 Social Work Practice with Groups and Families 3 cr
- PSYCHLGY 4950 Social Work Practice with Groups and Families 3 cr
- PSYCHLGY 4660 Cooperative Field Experience 3 cr

Plus six credits in applied coursework.

Please see your advisor for details.
Substance Abuse Counseling Emphasis
The coursework in this emphasis is recommended by the Psychology Department to students interested in pursuing a career in substance abuse counseling.

**Required Courses:**
- PSYCHLGY 3430 Physiological Psychology 3 cr
- PSYCHLGY 4430 Abnormal Psychology 3 cr
- PSYCHLGY 4660 Cooperative Field Experience 3 cr
- PSYCHLGY/CJ 4840 Substance Abuse I 3 cr
- PSYCHLGY/CJ 4850 Substance Abuse II 3 cr
- PSYCHLGY 4930 Techniques of Counseling 3 cr
- PSYCHLGY 4940 Advanced Techniques 3 cr

**Electives (6 credits)**
Please see your advisor for details.

Psychology Minor (24 credits)

**Required Courses:**
- PSYCHLGY 1130 General Psychology 3 cr
- PSYCHLGY 2230 Introduction to Experimental Psychology 3 cr

**Elective Category 1: Applied Courses – select ONE from this section:**
- PSYCHLGY 2530 Psychology of Women 3 cr
- PSYCHLGY 2930 Human Behavior in the Social Environment 3 cr
- PSYCHLGY 3000 Cognitive Psychology 3 cr
- PSYCHLGY 3030 Learning and Behavior 3 cr
- PSYCHLGY 3430 Physiological Psychology 3 cr
- PSYCHLGY 3530 Social Psychology 3 cr

**Elective Category 2: Experimental-Content Courses – select ONE from this section:**
- PSYCHLGY 3000 Cognitive Psychology 3 cr
- PSYCHLGY 3030 Learning and Behavior 3 cr
- PSYCHLGY 3430 Physiological Psychology 3 cr
- PSYCHLGY 3530 Social Psychology 3 cr

**Elective Category 3: Clinical Courses – select ONE from this section:**
- PSYCHLGY 4430 Abnormal Psychology 3 cr
- PSYCHLGY 4840 Substance Abuse I: Theory & Assessment 3 cr
- PSYCHLGY 4850 Substance Abuse II: Intervention & Special Populations 3 cr
- PSYCHLGY 4930 Techniques of Counseling 3 cr

Students must take an additional 9 credits of psychology courses. Students must receive a "C-" or better in all classes that count toward the minor.

Social Sciences Comprehensive Major
Students may complete a social sciences comprehensive major with an emphasis in psychology or history. Please refer to the catalog section Social Sciences Comprehensive under Department of History for details.

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**DEPARTMENT OF SOCIAL SCIENCES**

www.uwplatt.edu/social-sciences

**Department Chair:** John R. Rink
**Office:** 140 Gardner Hall
**Phone:** 608.342.1795
**E-mail:** rink@uwplatt.edu

**Academic Department Associate:** Becky Savoy

**Majors**
- Political Science International Studies

**Minors**
- Political Science
- Sociology

**About the Department and Majors**
The UW-Platteville Department of Social Sciences, a combined program in the liberal arts, offers courses of study that challenge students to develop an understanding of the dynamics of individual and social behavior from a number of perspectives. The department offers programs in economics, international studies, political science, and sociology. Descriptions of these programs and courses are found below.

---

While the study of social sciences may also include history, geography, criminal justice and psychology, these programs are listed under their own department headings.

**Economics**
www.uwplatt.edu/economics

**Contact:** Brian W. Peckham
**Office:** 134 Gardner Hall
**Phone:** 608.342.1752
**E-mail:** peckham@uwplatt.edu

**Professors:**
- John Ifediora Abdollah
- S. Soofi

**Associate Professor:**
- Brian W. Peckham

**Lecturer:**
- Michael Thomsen
About the Economics Program
The economics program at UW-Platteville is designed to bridge the gap between liberal and vocational education. In fulfilling requirements for the social sciences comprehensive major, the student will master the analytical core of economics, as well as functional areas of business and behavioral sciences and the analytical approach to problem solving.

Economics is the social science of production, distribution, and consumption of goods and services. The study of economics, in part, concentrates on the study of factors of production (i.e., natural resources, capital, labor, and entrepreneurship). Economic ideas confront us every day, whether we are exchanging our labor for money or our money for goods and services, borrowing or saving, or electing officials to represent us. We face many complex problems directly related to the economy, including inflation, unemployment, pollution, energy shortages, and government deficits. The study of economics helps us to understand the nature and causes of such problems and enables us to develop policies, programs, and strategies for dealing with them. A background in economics has cultural, ethical, and political value and enables an individual to be a more effective decision maker as a producer, consumer, and citizen.

Economics Program
ECON 2130 Principles of Macroeconomics 3 cr
ECON 2230 Principles of Microeconomics 3 cr
ECON 2410 Interpretation of Business and Economic Data 3 cr
ECON 2940 Political Economy of Race, Gender and Ethnicity 3 cr

Political Science
www.uwplatt.edu/political-science

Contact: John R. Rink
Office: 140 Gardner Hall
Phone: 608.342.1795
E-mail: rink@uwplatt.edu

Professors:
Rosalyn Broussard
John R. Rink

Assistant Professor:
Shan Sappleton

Associate Professor:
Travis Nelson

Senior Lecturer:
Scott Nikolai

Lecturers:
Nancy Hammermeister
M. Adrienne Jones
Benjamin Wood

About the Political Science Program and Major
The UW-Platteville Department of Social Sciences offers a major and minor in political science. Political science is the study of governmental institutions and decision-making in the political arena. Political science focuses on political systems by looking at American institutions, public law, public administration, public policy, political theory, political behavior, comparative politics, and international relations. Political science is a discipline in the social sciences and part of the liberal arts approach to education.

Students in political science learn skills in writing and critical thinking. They are asked to learn to question, analyze, and consider solutions to political problems. Research abilities are important for future individual and professional success.

Students seeking employment rather than graduate or professional (law) school should consider courses in administration and management. Those planning on graduate school should take political theory courses and research methods.

Mission
The political science program enables its majors to improve substantially their understanding of themselves and the world. The department seeks to educate students to have knowledge and appreciation of politics, development of political thought and governance, and the essential knowledge of their chosen fields. It attempts to enable students to live more meaningfully in the world. The department seeks to prepare its graduates for employment and/or advanced study, and to stimulate students to anticipate their future roles as professionals and citizens.

Goals and Objectives
Graduates will:
1. demonstrate an understanding of the origins, development, structure, and operation of American government, with emphasis on the roles of the executive, legislative, and judicial branches, and their political actors
2. develop an ability to explain the linkages of individuals and groups to the political process, the structure and functions of public policies, the decision making process, and to follow national and global issues intelligently
3. demonstrate a knowledge and appreciation of political thought and social research methods

General Requirements
Bachelor of Arts Degree
Total for graduation.........................120 credits
General education .........................44-58 credits
Major studies.............................36 credits

Political Science Major (36 credits)
All students must take the following courses:
POLISCI 1130 Introduction to Politics 3 cr
POLISCI 1230 Introduction to American Government 3 cr
POLISCI 1330 International Relations 3 cr
POLISCI 3650 Political Theory 3 cr
SOCIOLOGY 3430 Social Research 3 cr

Choose 21 credits from the following:
POLISCI 1430 Current Issues and Democracy 3 cr
POLISCI 1530 Introduction to Public Policy 3 cr
POLISCI 2430 Comparative Politics 3 cr
POLISCI 2940 Political Economy of Race, Gender, and Ethnicity 3 cr
Students of sociology learn important skills in reading, writing, analysis, and logic. Students learn to do research and to interpret social, economic, political, cultural, and technical change in a variety of contexts.

**Sociology Minor (24 credits)**

The sociology minor requires a minimum of 24 credits, including no fewer than 12 credits at the 3000 level or above.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOLGY 1030</td>
<td>Principles of Sociology</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 1130</td>
<td>Introduction to Anthropology</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 1230</td>
<td>Introduction to Marriage and Family</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 2130</td>
<td>Cultural Anthropology</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 2230</td>
<td>Women, Sex Roles, and Society</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 2330</td>
<td>Contemporary Social Problems</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 3130</td>
<td>Social Change</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 3230</td>
<td>Human Relations</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 3330</td>
<td>Crime and Delinquency</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 3430</td>
<td>Social Research</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 3530</td>
<td>Rural Sociology</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 3630</td>
<td>Sociology of the Family</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 3930</td>
<td>Topics in Sociology</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 4030</td>
<td>Social Organizations</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 4660</td>
<td>Cooperative Field Experience</td>
<td>1-8 cr</td>
</tr>
<tr>
<td>SOCIOLGY 4730</td>
<td>Individual Study</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

Political science majors must demonstrate a writing proficiency.

Please see the department contact person for the requirements.

**Political Science Minor (24 credits)**

*All students must take the following courses:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>POLSCI 1130</td>
<td>Introduction to Politics</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLSCI 1230</td>
<td>Introduction to American Government</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLSCI 1330</td>
<td>International Relations</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Choose 15 credits from the list above**

**Sociology**

[www.uwplatt.edu/sociology](http://www.uwplatt.edu/sociology)

Contact: Michael G. Dalecki  
Office: 1174 Ullsvik Hall  
Phone: 608.342.1807  
E-mail: dalecki@uwplatt.edu

Professor:  
Michael G. Dalecki

Assistant Professor:  
Claudine Pied

Lecturer:  
Catherine Douillet

**About the Sociology Program and Minor**

Sociology is the study of society and its component parts, groups, cultures, norms, roles, and their institutional and organizational relationships. Sociology is a discipline in the social sciences and part of the liberal arts approach to education. The UW-Platteville Department of Social Sciences offers a minor in sociology that requires a minimum of 24 credits, including no fewer than 12 credits at the 3000 level or above.

Students often minor in sociology if their majors are criminal justice or psychology. Both of these disciplines lead to employment in the criminal justice system, or the social welfare system.
The UW-Platteville Ethnic Studies Program is dedicated to awakening the minds and spirits of students and others to the issues of race and ethnicity in the United States and the social realities and moral challenges of racism in U.S. culture. It strives to help students fulfill their intellectual, moral, and social potential, and encourages them to remove barriers that can prevent others from achieving their potential. It promotes the study of race and ethnicity in historical, social, economic, and political structures, and supports and encourages the integration of the vast new scholarship that questions, analyzes, and narrates the role of race and ethnicity in the U.S.

The ethnic studies program oversees the UW-Platteville curriculum requirement that every student in a degree program complete a three-credit course on issues of race and ethnicity.
INTERNATIONAL STUDIES PROGRAM

www.uwplatt.edu/international-studies

Coordinator: Travis Nelson
Office: 138 Gardner Hall
Phone: 608.342.1809
E-mail: nelsontra@uwplatt.edu

About the International Studies Program
International studies is available as a comprehensive interdisciplinary major and minor offered by the College of Liberal Arts and Education in the UW-Platteville Department of Social Sciences. The international studies major focuses on the global perspective in education. Through a cross-national approach, the major is designed to make visible and explicit the interdependence that has been created by economic, technological, and communications development in the contemporary world.

Students in international studies must be self-directed and confident in their ability to plan their coursework to match their anticipated professional goals. This major is designed to prepare students to work effectively in an increasingly complex world. The program offers considerable flexibility for students to develop areas of specialization and to draw upon the offerings of other departments across the university. All majors are required to study a foreign language and participate in an education abroad program.

Mission
The international studies major provides a foundation in transnational and intercultural relations through interdisciplinary work across departments. It includes curricular, experiential, and skills components that enable students to engage in personal development, academic commitment, and intercultural understanding.

Goals and Objectives
Graduates will:
1. Exhibit familiarity with geographical, cultural, political, economic, literary, and historical approaches to global issues
2. Develop working knowledge of the methodologies central to the participating social science and humanities courses
3. Undertake an international experience through an appropriate education abroad program
4. Demonstrate competency in a second language

General Requirements
Bachelor of Arts Degree
Total for graduation.............................. 120 credits
General education ................................... 44-58 credits
Major studies ......................................... 48-64 credits

International Studies Comprehensive Major (48-64 credits)
The international studies major has a core requirement of 18 credit hours. Students must choose between Track I or Track II, and must have a credit-bearing education abroad experience.

Core Required (18 credits):
BUSADMIN 1300 Global Business 3 cr
ECONOMIC 2130 Principles of Macroeconomics 3 cr
GEOGRPHY 1330 World Regional Geography 3 cr
HISTORY 1020 World Civilization II 3 cr
POLISCI 1330 International Relations 3 cr
SOCIOLGY 2130 Cultural Anthropology 3 cr

Choose either track:
Track I:
Foreign language: Demonstrate fourth semester proficiency in a foreign language (0-16 credits)
Elective courses: Select from the list below (30 credits)
Courses must come from at least four different disciplines
At least 12 credits must be at the 3000 level or above

Track II (Language intensive):
Foreign language: Complete a foreign language minor (24 credits)
Elective courses: Select from the list below (18 credits)
Courses must come from at least four different disciplines
At least 12 credits must be at the 3000 level or above

A credit-bearing education abroad experience is required of all international studies majors. Many classes taken abroad will count as elective international studies courses.

Elective courses (18-30 credits):
AGINDUS 2330 World Population, Food and Resources 3 cr
ART 3530 Art History V: Far Eastern Art 3 cr
BIOLOGY 2130 Plants and Society 3 cr
BIOLOGY 2250 Tropical Marine Ecosystems 3 cr
BUSADMIN 3650 International Finance 3 cr
BUSADMIN 3720 International Marketing 3 cr
BUSADMIN 4140 International Management 3 cr
ENGLISH 2150 Introduction to Gay Studies 3 cr
ENGLISH 2640 World Literature I 3 cr
ENGLISH 2650 World Literature II 3 cr
ENGLISH 2770 International Cinema 3 cr
ENGLISH 3250 Sociolinguistics 3 cr
ENGLISH 3260 Language and Culture 3 cr
ENGLISH 3830 The World Novel 3 cr
ENGLISH 3850 Postcolonial Literature 3 cr
ENGLISH 4500 Women & Myth: Goddess, Witch, Sibyl 3 cr
GEOGRPHY 1050 Introduction to Human Geography 3 cr
The program is grounded in the conviction that in a world plagued by conflict, war, and manifold forms of degradation, both human and environmental, “true peace,” as Dr. Martin Luther King Jr. put it, “is not merely the absence of tension – it is the presence of justice.”

### International Studies Minor (30 credits)

The international studies minor has a core requirement of nine credit hours. Students must have a credit-bearing education abroad experience.

#### Core required (9 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRAPHY 1330</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 1020</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 1330</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

#### Elective courses (9 credits):

Select from the list of electives for the international studies major. Courses must be taken in at least two different disciplines.

#### Language requirement (12 credits):

Courses must be taken in one language.

#### Education Abroad:

A credit-bearing education abroad experience is required of all international studies minors. Many classes taken abroad will count as elective international studies courses.

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**SOCIAL AND ENVIRONMENTAL JUSTICE PROGRAM**

www.uwplatt.edu/sej

**Director:** Travis Nelson  
**Office:** 138 Gardner Hall  
**Phone:** 608.342.1809  
**E-mail:** nelsontra@uwplatt.edu

**About the Social and Environmental Justice Program and Minor**

UW-Platteville students can earn either a minor or a certificate in social and environmental justice.

Open to students from any major or concentration, the social and environmental justice minor is designed specifically for students who take seriously the idea that an educated person is one who embodies a sensitivity to the social, ecological, and moral challenges of our time, and who through structured study and practical field work act to make a constructive difference in our world.

The program is grounded in the conviction that in a world plagued by conflict, war, and manifold forms of degradation, both human and environmental, “true peace,” as Dr. Martin Luther King Jr. put
Justice, however, is not present where there is a disregard or contempt for human rights. For that reason the Social and Environmental Justice Program fully endorses the "Universal Declaration of Human Rights" proclaimed by the General Assembly of the United Nations in 1948. In addition, because of the indivisible link between humans and the environment, the program is committed not only to respecting and promoting basic human rights, but also to affirming and actualizing environmental imperatives.

The Social and Environmental Justice Program aims at developing students who are aware of our world’s major challenges – e.g., poverty, hunger, disease, illiteracy, war, slavery, and all forms of human and environmental degradation – and who are committed to addressing these threats to the common good in the most constructive ways possible. Utilizing courses that fulfill general education requirements in various disciplines, the program focuses on developing the idea and practice of social and environmental justice. Classroom study is followed by an off-campus field experience with an organization or partner involved in on-the-ground development and/or relief in a location either within the United States or another country. Field experiences include, but
are not limited to, projects in agriculture, community development, education, engineering, health care, job training, reforestation, habitat restoration, and small business development. Field experiences involve supervised study and service related to specific development projects and enable students to learn not only about the communities in which they are immersed, but also about the kinds of development that are appropriate within particular cultural contexts.

Social and Environmental Justice Minor (24 credits)
Students must have a cumulative grade point average of 2.50 in minor courses.

I. Students must take the following required courses
SEJ  2230  Introduction to Social and Environmental Justice
SEJ  4660  Cooperative Field Experience

Students must complete one course from each of groups II-VI:

II. Ethics and Morality
AGSCI  4120  The Animal Rights and Animal Welfare Social Movements
AGINDUS  4120  The Animal Rights and Animal Welfare Social Movements
PHLSPHY  2130  Peace Studies: Issues, ideas, and Morality of Nuclear War
PHLSPHY  2530  Ethics
PHLSPHY  2540  Science, Technology, and Ethics
PHLSPHY  2550  Business Ethics
PHLSPHY  3530  Philosophy of Power from Personalism
PHLSPHY  3630  Philosophy of Law
PHLSPHY  4430  Seminar in Philosophy: Theories of Justice

III. Environment and Sustainability
AGINDUS  2330  World Population, Food, and Resources
ENERGY  2130  Energy, Environment, and Society
GEOGRPHY  3330  Environmental Conservation
SOCIOLGY  3530  Rural Sociology

IV. Race, Gender, and Class
BUSADMIN  3340  Management, Gender, and Race
ETHNSTDY  3340  Management, Gender, and Race
WOMGENDR  3340  Management, Gender, and Race
MEDIA  3200  Gender and Popular Culture
WOMGENDR  3200  Gender and Popular Culture
ENGLISH  2150  Introduction to Gay Studies
WOMGENDR  2150  Introduction to Gay Studies
ENGLISH  2780  Race and Gender in American Film
ENGLISH  3280  Gay and Lesbian Literature
WOMGENDR  3280  Gay and Lesbian Literature
ENGLISH  3750  American Literature of Ethnicity and Immigration
ETHNSTDY  3750  American Literature of Ethnicity and Immigration
ETHNSTDY  1030  Race, Gender, and Class in the U.S.
ETHNSTDY  2200  Introduction to Ethnic Studies
ETHNSTDY  2230  Black Experience in the U.S.
HISTORY  3010  Race, Gender, and U.S. Labor History
ETHNSTDY  3010  Race, Gender, and U.S. Labor History
HISTORY  3160  U.S. Legal History of Race and Gender
HISTORY  3520  American Women’s History
HISTORY  3650  Women and Gender in Latin American History
HISTORY  3700  Women and Gender in Latin American History
HISTORY  3700  Women in European Civilization
POLISCI  2940  The Political Economy of Race, Gender, and Ethnicity
ECONOMIC  2940  The Political Economy of Race, Gender, and Ethnicity
ETHNSTDY  2940  The Political Economy of Race, Gender, and Ethnicity
POLISCI  3730  Ethnic Rights and Politics
ETHNSTDY  3720  Ethnic Rights and Politics
TEACHING  3630  Ethnic and Gender Equity in Education
ETHNSTDY  3630  Ethnic and Gender Equity in Education
WOMGENDR  3630  Ethnic and Gender Equity in Education

V. Geography and Culture
ART  2730  Art History IV: Ethnic Art in the U.S.
ETHNSTDY  2730  Art History IV: Ethnic Art in the U.S.
ENGLISH  2650  World Literature II
ENGLISH  3250  Sociolinguistics
ENGLISH  3410  Chicano Literature
ETHNSTDY  3410  Chicano Literature
ENGLISH  3730  Black Literature in America
ETHNSTDY  3730  Black Literature in America
ENGLISH  3740  Asian American Literature
ENGLISH  3850  Contemporary Global Literature and Empire
GEOGRPHY  1230  Survey of Cultural Geography
GEOGRPHY  3430  Geography of Africa
GEOGRPHY  3630  Geography of Latin America
GEOGRPHY  3930  Geography of Asia
HISTY  2230  Contemporary World Views
PHLSPHY  2930  Major Traditions in Eastern Religions
SOCIOLGY  2130  Cultural Anthropology
SOCIOLGY  2330  Contemporary Social Problems
SOCIOLGY  3230  Human Relations
ETHNSTDY  3230  Human Relations
SPEECH  2300  Introduction to Intercultural Communication

VI. History and Politics
GEOGRPHY  4230  Political Geography
HISTORY  3450  History of U.S. Foreign Relations
HISTORY  3660  Colonial Latin American History
HISTORY  3670  Modern Latin American History
HISTORY  3920  Modern Middle East
HISTORY  3950  Modern Japan
POLISCI  3340  Modern Japan
HISTORY  3970  Modern China
POLISCI  3350  Modern China
PHLSPHY  4430  Seminar in Philosophy: Utopianism and Human Nature
POLISCI  3720  Politics of the Global Economy
POLISCI  3750  International Human Rights

VII. Students must also complete either the SEJ 4940
Capstone Seminar or one additional course from group II, III, or IV.

Social and Environmental Justice Certificate (15 credits)
The social and environmental justice certificate consists of an interdisciplinary sequence of courses in social and environmental justice and a special notation on the transcript. Students enrolled in the certificate program are required to complete 15 credits of coursework in Social and Environmental Justice including:

- SEJ 2230 Introduction to Social and Environmental Justice
- one course each from groups II, III, and IV
- and one course from either group V or VI

All social and environmental justice courses, including those that are cross-listed under Social and Environmental Justice and the co-sponsoring departments, can be used to satisfy the requirements of the certificate program.

WOMEN’S AND GENDER STUDIES PROGRAM

www.uwplatt.edu/wsprogram

Contact: Melissa Gormley
Office: 261 Gardner Hall
Phone: 608.342.6060
Academic Department Associate: Marsha Weaver
261 Gardner Hall, weaverma@uwplatt.edu

About the Department and Minor
The Women’s and Gender Studies Program Council includes the following faculty and staff, plus one to two student members selected in the fall of each academic year.

Jackie Bodden, Women’s and Gender Studies
Rosalyn Broussard, Political Science
Teresa Burns, English
Becky Fernette, Psychology
Melissa Gormley, History
Elizabeth Holden, Physics
Dong Isbister, Women’s and Gender Studies
Rea Kirk, Education
Mary Lenzi, Philosophy
Richard Moninski, Fine Art
Scott Nikolai, Political Science
Florence Omachonu, Education
Regina Pauly, Karrmann Library
Claudine Pied, Sociology
Shan Sappleton, Political Science
Adam Stanley, History
Tammy Salmon-Stephens, Engineering
Kathleen Tigerman, English
Amanda Tucker, History
Nancy Turner, English
Laura Wendorgf, English
Mary Rose Williams, Media Studies

Women’s and Gender Studies Minor (24 credits)
Requirements include WOMSTD 1130 Introduction to Women’s Studies 3 cr and at least one course from each of the following groups.

Group One: Social Science (3 credits)
WOMGENDR 2230 Women, Sex Roles and Society 3 cr
WOMGENDR 2530 Psychology and Women 3 cr
WOMGENDR 2730 Women in Science and Engineering 3 cr
WOMGENDR 3340 Management, Gender, and Race 3 cr
WOMGENDR 3630 Ethnic and Gender Equity in Education 3 cr
WOMGENDR 3730 Women and the Law 3 cr
WOMGENDR 4130 Space, Place, and Gender 3 cr

Group Two: Humanities, Fine Arts, Historical Perspective (3 credits)
WOMGENDR 2830 Survey of Women Writers 3 cr
WOMGENDR 2930 Minority Women Writers of the U.S. 3 cr
WOMGENDR 3430 Women and the Arts 3 cr
WOMGENDR 3520 American Women’s History 3 cr
WOMGENDR 3530 Philosophy’s Feminist Future: From Powerism to Personalism 3 cr

The UW-Platteville Women’s and Gender Studies Program creates new dimensions in the educational curriculum by expanding students’ knowledge and awareness of women’s experiences in as many areas as possible.

Women’s and gender studies emphasizes the contributions of women and investigates the ways in which societal misconceptions of both sexes have been reflected in the traditional curriculum. This interdisciplinary academic field examines from a feminist perspective the challenges women in particular face. Thus, women’s and gender studies ultimately provides new insights for individuals seeking to improve the quality of their own lives and of the society in which they live.

The UW-Platteville Women’s and Gender Studies Program seeks to enhance the educational and career opportunities of students in traditional academic areas, as well as students with a special interest in women’s and gender studies. The particular needs and concerns of part-time and continuing education students are also addressed.

All women’s and gender studies courses fulfill the general education gender requirement. Some courses can double count for both the ethnic and gender general education requirement.

UW-Platteville students can earn a minor or a certificate in women’s and gender studies.
Women’s and Gender Studies Certificate (15 credits)
The basic program consists of an interdisciplinary sequence of courses leading to a certificate in women’s and gender studies and a special notation on the transcript. Students enrolled in the certificate program are required to complete 15 credits of coursework in women’s and gender studies, including Women’s Studies 1130 Introduction to Women’s Studies, and one 3000 or 4000 level course in women’s and gender studies that may include the internship or research project. All women’s and gender studies courses, including those that are cross-listed under the UW-Platteville Women’s and Gender Studies Program and the co-sponsoring departments, can be used to satisfy the requirements of the certificate program. This curriculum provides a model for students wishing to design individualized course sequences that support their personal and educational goals. Students interested in the certificate program should consult the director of women’s and gender studies.

Certificate in Gay and Lesbian Studies (15 credits)
The certificate in Gay and Lesbian Studies is a 15-credit program. Students must pass the following courses in order to receive the certificate:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH/2150</td>
<td>Introduction to Gay Studies</td>
<td>3 cr</td>
</tr>
<tr>
<td>WOMGENDR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH/3110</td>
<td>Gay and Lesbian Literature for Young Adults</td>
<td>3 cr</td>
</tr>
<tr>
<td>WOMGENDR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH/3280</td>
<td>Gay and Lesbian Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>WOMGENDR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEDIA/3200</td>
<td>Gender and Popular Culture</td>
<td>3 cr</td>
</tr>
<tr>
<td>WOMGENDR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOMGENDR</td>
<td>Individual Research in Women’s Studies</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

The topic for WOMGENDR 4730 must be related to gay, lesbian, bisexual and/or transgender issues and must be approved by the coordinator of gay and lesbian studies.

A course with a strong GLBT component (i.e., a topics course on a gay issue, a major authors course that deals with a GLBT author and examines works with GLBT themes, or a similar course) may be substituted for MEDIA 3200 or WOMGENDR 4730 with the approval of the coordinator of gay and lesbian studies.

The prerequisites (other than ENGLISH 1230) for MEDIA 3200 will be waived for certificate students. This is accomplished by filling out a green department waiver card obtainable from the Department of Media Studies academic department associate and having it signed by the media studies chair.
This page provides information for reading course descriptions.

**Course Codes**

Accounting .................................................. ACCTNG
Agribusiness ................................................. AGBUS
Agricultural and Industrial Engineering Technology. AGET
Agricultural Education ....................................... AGEDUC
Agriculture ........................................................ AGRIC
Animal Science .................................................. ANSCI
Art ................................................................ ART
Biology ................................................................. BIOLOGY
Business Administration ..................................... BUSADMIN
Chemistry .......................................................... CHESTRY
Chinese ............................................................... CHINESE
Civil Engineering ............................................... CIVILENG
Computer Science ............................................. COMPUTER
Counseling Psychology ....................................... COUNSPSY
Criminal Justice ............................................... CRIMLJUS
Economics .......................................................... ECONOMIC
Electrical Engineering ........................................ ELECTENG
Energy ................................................................ ENERGY
Engineering Physics .......................................... ENGRPHYS
English ................................................................ ENGLISH
Entrepreneurship ................................................ ENTRP
English as a Second Language ............................... ESL
Environmental Horticulture ................................... ENVHORT
Ethnic Studies .................................................... ETHNSTDY
Forensic Investigation ......................................... FORENSIC
French ................................................................ FRENCH
General Engineering .......................................... GENENG
Geography .......................................................... GEOGRAPH
Geology ................................................................ GEOLOGY
German ............................................................... GERMAN
History ................................................................ HISTORY
Industrial Engineering .......................................... INDSTENG
Industrial Studies ................................................ INDSTUDY
Mathematics ........................................................ MATH
Mechanical Engineering ....................................... MECHNCHL
Applied Music .................................................... MUAP
MediaStudies ..................................................... MEDIA
Microsystems and Nanotechnology ........................ MSNT
Music ................................................................ MUSIC
Philosophy .......................................................... PHLSPHY
Physical Science ................................................ PHSC
Health and Human Performance ......................... HHP
Physics ............................................................... PHYSICS
Political Science .................................................. POLISCII
Portuguese ........................................................... PORTUG
Psychology .......................................................... PSYCHLGY
Reclamation .......................................................... RECPLAN
Renewable Energy .............................................. ENERGY
Social and Environmental Justice ......................... SEJ
Sociology ............................................................. SOCIOLGY
Soil and Crop Science .......................................... SCSCI
Software Engineering ......................................... SOFTWARE
Spanish ............................................................... SPANISH
Speech ................................................................ SPEECH
Teaching ............................................................. TEACHING
Theatre ................................................................. THEATRE
UW-Platteville Study ............................................. UWPOSTUDY
Women's and Gender Studies ............................... WOMgendr

Sample: GEOGRAPHY 3330 3 credits

**GEOGRAPHY 3330 3 credits**

**Environmental Conservation**
The relationship of humans and the natural environment.
Topics include environmental world views, the effects of eco system disruption, and use and misuse of natural resources.
P: junior or senior standing.
GE: Social Science.

This upper level course would be found in the geography section of the course description area. It has a prerequisite of junior or senior standing, and carries social science general education education credit.

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For further explanation of the different parts of the course description, read on.

**Course Number**
The four-digit number to the right of the departmental code is the course number.
0000-0990 No credit towards graduation
1000-2990 Lower level undergraduate (credit)
3000-4990 Upper level undergraduate (credit)
5000 Graduate level
W-located after the first 3 digits—Writing Emphasis course

**Credits**
The course credits are listed to the right of the course number. One credit hour represents one hour of class time per week plus two hours of out-of-class study.

**Course Title and Course Description**
The course title is listed in bold. A brief description of the course is included after the title.

**Prerequisite or Corequisite Designation**
P: Designates that the course has a prerequisite (a course that must be taken before this class)
C: Designates that the course has a corequisite (a course that must be taken at the same time as this class)

**Semester Designation**
Designates which semester the course is offered. This serves as a general guide and does not guarantee that a course will be offered during a particular semester: fall, spring, summer, winterim. Contact the department for current information on course offerings and rotation. Students who find courses without a semester designation should consult with the department chairperson.

**General Education (Liberal Studies Areas) Requirements**
Lists which general education requirements this course meets
- HUMAN: Carries general education humanities credit
- FINE ARTS: Carries general education fine arts credit
- HISTORY: Carries general education historical perspective credit
- SOCIAL SCIENCE: Carries general education social sciences credit
- NATURAL SCIENCE: Carries general education natural sciences credit
- INTERNATIONAL EDUCATION: Carries general education international education credit
- ETHNIC STUDIES, GENDER STUDIES: Carries general education ethnic and gender studies credit
- ETHNIC: Carries general education ethnic studies credit
- GENDER: Carries general education gender studies credit

**Other Areas**
- WRITING EMPHASIS AREA: W Carries writing emphasis credit
- ENTRY: Carries entry credit
- HHP-ACTIVITY: Carries health and human performance activity credit
- HHP-WELLNESS: Carries health and human performance wellness credit
## ACCOUNTING COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
</table>
| ACCTING 2010 | 3 | Financial Accounting | Introduction to accounting concepts and procedures including the accounting cycle, assets, liabilities, and financial statements. Develops the ability to use accounting information for decision making.  
Components: Class |
| ACCTING 2020 | 3 | Management Accounting | Introduction to management accounting topics such as cost accounting, cost analysis, budgeting, and variance analysis. Focuses on both procedures and the drawing of inferences from the results for more effective and efficient managerial decision making.  
Components: Class  
Prereqs/Coreqs: P: grade of “C-“ or better in ACCTING 2010 |
| ACCTING 3000 | 3 | Accounting Issues for Managers | The interpretation and analysis of accounting information for internal and external decisions. Includes topics of internal control system, individual income tax preparation, and key popular cost management techniques.  
Components: Class  
Prereqs/Coreqs: P: grade of “C-“ or better in ACCTING 2020 |
| ACCTING 3010 | 3 | Intermediate Accounting I | Detailed coverage of the accounting cycle, financial statements, assets, and income determination. Emphasizes problem solving as well as conceptual understanding.  
Components: Class  
Prereqs/Coreqs: P: grade of “C-“ or better in ACCTING 2020 |
| ACCTING 3020 | 3 | Intermediate Accounting II | Detailed coverage of liabilities, investments, corporate accounting, the statement of cash flows, and special topics such as pensions, leases, and accounting changes. Emphasizes problem solving as well as conceptual understanding.  
Components: Class  
Prereqs/Coreqs: P: grade of “C-“ or better in ACCTING 3010 |
| ACCTING 3030 | 3 | Accounting Information Systems | Concepts of systems evaluation and design, with emphasis on the role of the accounting information system in providing relevant and reliable information for management decision making and financial reporting. Controls against errors and fraud are emphasized, as is the impact of technology. Students will do a term project examining and critiquing the accounting information system of a real company or nonprofit organization.  
Components: Class  
Prereqs/Coreqs: P: grade of “C-“ or better in ACCTING 2020 and (COMPUTER 1830 or excel competency) |
| ACCTING 3040 | 3 | Federal Income Tax | Survey and practical application of federal income tax regulations and court rulings to individuals and sole proprietorships.  
Components: Class  
Prereqs/Coreqs: P: grade of “C-“ or better in ACCTING 2010 |
| ACCTING 3050 | 3 | Advanced Accounting I | An in-depth coverage of business acquisitions and preparation of consolidated financial statements, plus coverage of foreign currency accounting and governmental accounting.  
Components: Class  
Prereqs/Coreqs: P: grade of “C-“ or better in ACCTING 3020 |
| ACCTING 3230 | 3 | Cost Accounting | Cost accounting systems for product costing along with accumulation of costs and their usage; application of accounting information for planning and control.  
Components: Class  
Prereqs/Coreqs: P: grade of “C-“ or better in ACCTING 2020 and (COMPUTER 1830 or excel competency) |
| ACCTING 3270 | 3 | Financial Statement Analysis and Business Valuation | The course is designed to prepare students to interpret, analyze, and evaluate the financial statements of an entity using various techniques. The techniques and methods used while valuing a business are also covered in this course. This course is especially useful for students who expect to be intensive users of financial statements as part of their professional career. The entities subject to analysis will be public companies but the tools learned in this course will be equally applicable to private companies as well as to non-for-profit organizations.  
Components: Class  
Prereqs/Coreqs: P: grade of “C-“ or better in ACCTING 3000 or 3010 or consent of instructor |
ACCTING 3450 3 credits
Strategic Cost Containment
To educate students on the cost structure of an organization and specifically an organization's supply chain costs. To build student's understanding of the sources of cost data and provide techniques to gather that data from information systems. To assist student's ability to analyze costs and drivers via tools such as cause-effect diagrams and Pareto analysis with the purpose of identifying cost savings opportunities. To guide the students in the overall cost containment process - plan, analyze, design (improvements), implement and measure results.
Components: Class
Prereqs/Coreqs: P: grade of "C-" or better in ACCTING 2020

ACCTING 3530 3 credits
Budgets and Budgetary Control
Theory and procedure of financial and operating budgets for managerial planning and controls.
Components: Class
Prereqs/Coreqs: P: grade of "C-" or better in ACCTING 3230

ACCTING 4040 3 credits
Advanced Taxation
A continuation of ACCTING 3040, covering advanced property transactions, special tax computations, corporations, partnerships, S corporations, and estate and gift taxation.
Components: Class
Prereqs/Coreqs: P: grade of "C-" or better in ACCTING 3040

ACCTING 4130 3 credits
Advanced Cost Accounting
A continuation of ACCTING 3230. Emphasis on usage of accounting information in making decisions and performance evaluations; allocation of costs for different purposes; application of quantitative methods in accounting.
Components: Class
Prereqs/Coreqs: P: grade of "C-" or better in ACCTING 3230

ACCTING 4230 3 credits
Auditing I
Standards and procedures of external auditing, including a simulated audit. Also emphasizes the auditor's decision-making process.
Components: Class
Prereqs/Coreqs: P: ACCTING 3010 and ACCTING 3030

ACCTING 4240 3 credits
Auditing II
Concepts, procedures, and auditor judgment in the areas of internal auditing and auditing for fraud. Also includes several advanced topics of external auditing.
Components: Class
Prereqs/Coreqs: P: grade of "C-" or better in ACCTING 4230

ACCTING 4520 3 credits
Accounting Theory
A survey of the theory underlying financial accounting, the accounting standards setting environment, proposed alternate accounting practices, and current accounting issues and trends.
Components: Class
Prereqs/Coreqs: P: grade of "C-" or better in ACCTING 3020

ACCTING 4940 1–4 credits
Special Problems
Supervised study of selected accounting topics.
Components: Independent Study
Prereqs/Coreqs: Junior standing

ACCTING 4990 1–8 credits
Internship
Extends the learning process by giving students a chance to apply their knowledge and skills on the job in an actual organization. Graded on a pass/fail basis.
Components: Field Studies
Prereqs/Coreqs: P: major in accounting and junior standing

AGRICULTURAL BUSINESS

AGBUS 1000 1 credit
Agribusiness Professional Development I
An introductory course for discovering personal and career goals, an exploration of the agribusiness industry, and preparation for securing an internship which is a requirement of the major. Students will explore their career interests through reading, interviewing, job shadowing, and other career exploration activities. Students will also prepare and critique resumes, cover letters, and develop interviewing skills.
Components: Class
GE: ENTRY Level requirement

AGBUS 1500 3 credits
Introduction to Agribusiness
Presents a background of American agriculture; interrelationships of agricultural industries; economic concepts of production, form of markets, marketing and consumption of food in the United States; principles of management; and key issues and trends in agribusiness.
Components: Laboratory, Class

AGBUS 2330 3 credits
World Population, Food and Resources
Examine current and future world population trends; study world food problems, nutrition, world hunger, and food supply and demand situation; analyze impact of trade and foreign aid, scrutinize economic development and analyze the impact on resources for society and individuals under various cultural, religious, economic, geographical, and political conditions.
Components: Class
GE: International Education, Social Sciences
AGBUS 2430 Agricultural Marketing
Principles and organization of agricultural marketing; market functions, structure, and organizations; commodity and branded marketing.
Components: Class
Prereqs/Coreqs: P: AGBUS 1500

AGBUS 2500 Producer and Consumer Cooperatives
Development, principles, legal basis, organization, finance, taxation, and management of agricultural, consumer, and industrial cooperatives.
Components: Class
Prereqs/Coreqs: P: AGBUS 1500

AGBUS 3410 Agricultural Consulting and Sales
The history, image, and economic importance of agricultural sales and consulting are emphasized; the nature and functions of contemporary, professional sales consulting; and the selling process, as it applies to agricultural inputs and the food and fiber industry. Current issues facing the industry.
Components: Class
Prereqs/Coreqs: P: AGBUS 1500

AGBUS 3420 Agricultural Finance
Capital and credit needs of farmers, agencies supplying credit needs, farm loan analysis, budgeting and capital investment analysis.
Components: Class
Prereqs/Coreqs: P: AGBUS 1500 and ACCTING 2010

AGBUS 3430 Quantitative Methods in Farm and Agribusiness
This course provides both introduction to and application of the quantitative tools often used in farm and agribusiness decision-making. The toolbox will include decision analysis, statistical quality control, non-parametric methods, regression, correlation, tests for dependence, hypothesis testing, simulation, optimization, and others. Review interpretation of agricultural statistics and journal articles.
Components: Class
Prereqs/Coreqs: P: AGBUS 1500 and MATH 1830

AGBUS 3450 Agribusiness Professional Development II
Professional and career development towards obtaining career objectives. Course objectives include planning and development of credentials needed to compete for a job position, learning how to package credentials and communicate them to prospective employers, and further developing professional skills and knowledge such as agribusiness ethics, etiquette, changing trends, and current events in the industry. A primary course activity is the development of a personal portfolio that showcases special achievements in being visionary, managing budgets, communication, professionalism and stewardship of people.
Components: Class
Prereqs/Coreqs: P: AGBUS 1000 and junior standing

AGBUS 3460 Farm Business Management
The study and application of farm business management issues and systems including: current topics and trends; farm financial records; farm business arrangements and transfer planning; managing capital and human resources; tax management; farm business analysis, benchmarking and decision-making; government programs; and sustainability.
Components: Laboratory, Class
Prereqs/Coreqs: P: AGBUS 1500 and ACCTING 2010 or consent of instructor

AGBUS 3500 Agricultural Prices and Risk Management
Analysis of agricultural price trends; elasticity of demand and supply; seasonal prices; and price cycles, and price management tools and strategies. Understanding the theory of demand and supply; how they change; and the impact on agricultural prices. Understanding and applying the concepts of risk and risk management with special emphasis on price risk management.
Components: Class
Prereqs/Coreqs: P: AGBUS 2430

AGBUS 3520 Agricultural Law
An introduction to the historical background of law and legal institutions; various legal contracts; law pertaining to real and personal property; landlord and tenant arrangements; agricultural business arrangements, partnerships, corporations, and cooperatives; legal aspects of sales transactions; legal aspects of credit; governmental regulatory agencies.
Components: Class
Prereqs/Coreqs: P: AGBUS 1500

AGBUS 3530 Agricultural Commodity Marketing
Current marketing trends and problems, futures marketing and forward contracting, bargaining, international trade, current marketing issues of selected agricultural commodities.
Components: Class
Prereqs/Coreqs: P: AGBUS 2430 or BUSADMIN 3620

AGBUS 4120 The Animal Rights and Animal Welfare Social Movements
Students will learn about the past and present actions of the animal rights and animal welfare movements and will be expected to theorize using facts on what the future may hold if each movement continues ahead. Emphasis will be placed on class debates, mature discussions/interactions, fact-finding assignments and a major project researching individuals that have been influential to either movement or how they have impacted the opposing movement.
Components: Discussion, Class
Cross Offering: ANSCI 4120
Prereqs/Coreqs: junior standing
AGBUS 4330  3 credits
Agribusiness Marketing Management
Development of a marketing plan; review and work with media; advertising and promotional programs; merchandising strategies; financial market and demographic research and analysis; pricing and product strategies for agricultural (food and inputs) products.

Components: Class
Prereqs/Coreqs: P: AGBUS 1500 and AGBUS 2430

AGBUS 4400  3 credits
Livestock and Meat Marketing
Economic analysis of principles and methods of marketing, evaluating, and pricing meat animals, and the marketing and merchandising of meat and meat products for the beef, pork and poultry industries.

Components: Class
Prereqs/Coreqs: P: AGBUS 1500 and AGBUS 2430

AGBUS 4460  3 credits
Agricultural Policy Seminar
The making of Agricultural, Food, Rural, and Environmental Policy including history, process, political dynamics, and players; the current state of legislative developments; and an evaluation of the economic, environmental, and social impacts of current and alternative policy.

Components: Seminar
Prereqs/Coreqs: P: AGBUS 1500

AGBUS 4500  3 credits
Agribusiness Management
Management of the agribusiness firm including planning, organizing, coordinating, control and communication. Special emphasis is given to learning and decision-making through case studies including financial analysis, investments, organizational structure, etc.

Components: Class
Prereqs/Coreqs: P: AGBUS 1500

AGBUS 4580  3–6 credits
Agribusiness Internship
Supervised experiential learning opportunities in cooperation with businesses and public agencies related to Agricultural and Industrial Engineering Technology.

Components: Field Studies
Prereqs/Coreqs: 45 credits completed or IP and 12 credits of AGBUS completed or IP and good standing, and approval of internship coordinator.

AGBUS 4590  1–3 credits
Individual Study in the Agricultural Business
Advanced study on a particular topic or problem in the area of specialization within the agricultural industries.

Components: Independent Study

AGBUS 4620  3 credits
Agricultural Commodity Price Forecasting
Analyze basic commodity price fluctuations. The three major approaches include technical, fundamental, and behavioral analyses. Primary emphasis involves charting theory.

Components: Class
Prereqs/Coreqs: P: AGBUS 1500, AGBUS 2430, and AGBUS 3530
AGET 3950
Soil and Water Conservation Engineering 3 credits
Land description and characteristics of watersheds. Design, layout, and construction of waterways, diversions, terraces, and earthen structures.
Components: Laboratory, Class
Prereqs/Coreqs: P: AGET 1750 or SCSCI 2230 or RECLAM 1010 or consent of instructor

AGET 4580
Agricultural and Industrial Engineering Technology Internship 3–6 credits
Supervised experiential learning opportunities in cooperation with businesses and public agencies related to Agricultural and Industrial Engineering Technology.
Components: Field Studies
Prereqs/Coreqs: P: 45 credits completed or IP and 12 credits of AGBUS or AGET completed and good standing and approval of internship coordinator.

AGET 4690
Machinery Engineering and Management 3 credits
Design, maintenance, operation, adjustment and management of agricultural machinery.
Components: Laboratory, Class
Prereqs/Coreqs: P: AGET 1750 or consent of instructor

AGET 4790
Materials Handling and Energy Seminar 3 credits
Principles and applications of handling agricultural products. Sales, service, employment opportunities, and special problems relating to agricultural, environmental, and energy systems.
Components: Laboratory, Seminar

AGET 4890
Structures and Environmental Control 3 credits
Planning and construction of agricultural buildings with respect to functions, aesthetic and environmental aspects; construction components; material utilization; moisture and heat transmission; ventilation system design; and physiological effects of environment on animals and crops.
Components: Laboratory, Class
Prereqs/Coreqs: P: AGET 1750 or consent of instructor

AGET 4990
Independent Study in Equipment, Structure and Power Systems 1–3 credits
Advanced study in an area of specialization.
Components: Independent Study
Prereqs/Coreqs: P: junior standing

AGRIC 1990
Special Topics in Agriculture 1–3 credits
Topics will vary and be of a type that does not easily fit into normal and current departmental coverage or are of multidisciplinary within the field of Agriculture. Topics may also be contemporary issues or ones that are being tested for future standing.
Components: Laboratory, Class

AGRIC 3990
Special Topics in Agriculture 1–3 credits
Topics will vary and be of a type that does not easily fit into normal and current departmental coverage or are of multidisciplinary within the field of Agriculture. Topics may also be contemporary issues or ones that are being tested for future standing.
Components: Laboratory, Class

AGRIC 4600
Faculty Led Short-Term International Experience in Agriculture 3 credits
Extended trip and study of various agricultural practices, topics and cultures. Course may include topics related to climate, economics, agribusiness, policy, geography, soils, landscapes, markets, crops, livestock and cultural diversity. Location and duration of travel courses will vary. Expenses will be paid by student. Pre and Post-trip sessions will be arranged. Check with School of Agriculture for current offerings.
Components: Field Studies
GE: International Education

ANSCI 1000
Introduction to Animal Science 3 credits
The organization and structure of the nation’s livestock and poultry industries; the variety and nature of animal food products; the biological uniqueness of farm animals; profitable management practices as they apply to commercial animal production.
Components: Laboratory, Class

ANSCI 1200
Livestock Production Techniques 2 credits
The performance and management skills necessary to manage productive livestock enterprises. Students will learn techniques necessary in production agriculture.
Components: Class
Prereqs/Coreqs: P: freshman or sophomore standing or consent of instructor

ANSCI 2000
Meat and Animal Evaluation 3 credits
The evaluation of beef, dairy-beef, sheep, and swine market animals for carcass merit; utilizing performance records in the evaluation and selection of breeding animals.
Components: Laboratory, Class
ANSCI 2010 4 credits
Anatomy and Physiology of Domestic Animals
This course will focus on understanding the basic form, structure, and function of the major mammalian physiological systems at the microscopic and macroscopic level. Major emphasis will be placed on relating structure and function of individual tissues to the whole animal. Class discussions and laboratories will focus on farm or domesticated species but comparative references will be made to human and/or laboratory animals when appropriate. Fundamentals of physiological systems learned in this course will be relevant to studies in future animal science courses.
Components: Laboratory, Class
Prereqs/Coreqs: P: ANSCI 1000 and BIOLOGY 1150 or BIOLOGY 1650

ANSCI 2020 3 credits
Introduction to Dairy Science
Selection, feeding, and care of dairy cattle.
Components: Class

ANSCI 2030 3 credits
Introduction to Food Science
The organization and structure of the nation’s food industry. The nature and value of the major food groups, physical and chemical properties of various foods, processing technology, food safety, and quality assurance.
Components: Laboratory, Class

ANSCI 2050 3 credits
Dairy Cattle Evaluation
Problems in evaluating dairy cattle, emphasizing utility as well as show ring requirements. Students will familiarize themselves with alternative evaluation methods.
Components: Laboratory, Class

ANSCI 2600 3 credits
Companion Animal Care and Management
Basic principles and practices of companion animals will be discussed. Application of knowledge and theories to actual case studies will be expected. A service learning project will be required of each student. Topics include defining companion animals, feeding and nutrition, reproductive biology, animal behavior and health.
Components: Class
Prereqs/Coreqs: sophomore standing to enroll in this class

ANSCI 2990 1 credit
Pre-Capstone Seminar in Animal Science
This course is designed to guide students in the formation of a proposal for their capstone experience/project. Students will engage in career exploration and career development activities. This course will also encourage independent thinking and learning, teamwork experiences, and other skills needed to succeed in active learning environments, particularly those involved in their capstone experience.
Components: Class

ANSCI 3000 3 credits
Animal Nutrition
Practical application of nutrition principles to livestock feeding; the characteristics of feeds; practice in formulating rations and studies of their relative economy in the management of herds and flocks.
Components: Laboratory, Class
Prereqs/Coreqs: P: ANSCI 1000 and either CHEMSTRY 1050 or CHEMSTRY 1140; C: ANSCI 3600

ANSCI 3010 3 credits
Dairy Product Analysis and Processing
The testing of milk and dairy products; elements of the manufacture of various dairy products in relation to quality milk production on the farm.
Components: Laboratory, Class
Prereqs/Coreqs: P: CHEMSTRY 1050 or CHEMSTRY 1140

ANSCI 3030 3 credits
Genetics of Livestock Improvement
Qualitative and quantitative genetics and their application to the breeding and improvement of domestic animals.
Components: Class
Prereqs/Coreqs: P: ANSCI 1000 and BIOLOGY 1150 or BIOLOGY 1350 or BIOLOGY 1650 and Math 1530 or higher

ANSCI 3040 3 credits
Principles of Meat Science
Structure and composition of skeletal and connective tissue; post mortem changes affecting meat quality and characteristics.
Components: Laboratory, Class
Prereqs/Coreqs: P: ANSCI 1000, CHEMSTRY 1050 or CHEMSTRY 1140

ANSCI 3070 3 credits
Biotechnology in Animal Science
Principles of current methodologies utilized in biotechnology and the specific application to areas of animal science will be presented.
Components: Class

ANSCI 3110 4 credits
Reproductive Physiology of Domestic Animals
This course discusses the anatomy, physiology and basic endocrinology of the reproductive processes in domestic livestock, companion animals, and poultry. Reproductive similarities and differences in humans will also be discussed. Methods available for enhancing or controlling reproductive processes in mammals will be discussed including the use of artificial insemination, estrous synchronization, embryo transfer, and reproductive biotechnology. The effects of environment, nutrition, and disease will also be examined for their influences on reproduction.
Components: Laboratory, Class
Prereqs/Coreqs: P: ANSCI 2010 or consent of instructor
### ANSCI 3120  
**Topics in Animal Health**  
Discuss animal diseases specific for this area along with diseases controlled by government regulations. Discuss biosecurity as related to global, national, regional and local animal health and agriculture. Guest speakers will be invited who are experts in dealing with zoonotic diseases and public health issues.  
**Components:** Class  
**Prereqs/Coreqs:** P: ANSCI 2010 or consent of instructor

### ANSCI 3130  
**Animal and Food Microbiology**  
Students will learn about the basics of microbiology so as to better understand how control and use microbes in animal and food science. Topics include pathogens and disease control, rumen microbiology, udder health, food safety and food microbiology.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: BIOLOGY 1150 or BIOLOGY 1650 and CHEMSTY 1050 or CHEMSTY 1140 or consent of instructor

### ANSCI 3600  
**Feeds and Feeding**  
Designed as a companion course for ANSCI 3000 (Animal Nutrition) with emphasis on understanding feed characteristics, nutrient analysis, and ration formulation.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: ANSCI 1000 and either CHEMSTY 1050 or CHEMSTY 1140 or consent of instructor

### ANSCI 4030  
**Beef Management**  
Management principles of beef production including selection, feeding, marketing, reproduction, and promotion.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: ANSCI 3000 and ANSCI 3110 or consent of instructor

### ANSCI 4040  
**Swine Management**  
The management principles and practices of the pork industry which include selection, feeding, breeding, reproduction, housing, disease control, and handling are discussed and demonstrated. The student is introduced to the organizational structure, economic realities and production trends current in the industry.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: ANSCI 3000 and ANSCI 3030 and ANSCI 3110 or consent of instructor

### ANSCI 4070  
**Dairy Cattle Management**  
Principles and problems involved in dairy cattle management. Emphasis will be placed on actual involvement in making managerial decisions.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: ANSCI 2020 and ANSCI 3000 and ANSCI 3030 and ANSCI 3110 or consent of instructor

### ANSCI 4080  
**Ruminant Nutrition**  
Anatomy and physiology of the ruminant gastrointestinal tract; the digestion, absorption, metabolism, utilization, and biochemical functions of nutrients as applied to ruminants.  
**Components:** Class  
**Prereqs/Coreqs:** P: ANSCI 3000 or consent of instructor

### ANSCI 4090  
**Monogastric Nutrition**  
Digestion, absorption, and metabolism of nutrients in monogastrics. Nutrition of protein, energy, fat, minerals, vitamins, and feed additives for swine, horses, and poultry. Practical application and ration balancing for each species studied.  
**Components:** Class  
**Prereqs/Coreqs:** P: ANSCI 3000 or consent of instructor

### ANSCI 4120  
**The Animal Rights and Animal Welfare Social Movements**  
Students will learn about the past and present actions of the animal rights and animal welfare movements and will be expected to theorize using facts on what the future may hold if each movement continues ahead. Emphasis will be placed on class debates, mature discussions/interactions, fact-finding assignments and a major project researching individuals that have been influential to either movement or how they have impacted the opposing movement.  
**Components:** Discussion, Class  
**Cross Offering:** AGBUS 4120  
**Prereqs/Coreqs:** junior standing

### ANSCI 4140  
**Meat Processing**  
This course is an advanced meat science course in which students will be expected to use their basic meat science knowledge and apply it to the production of further-processed, value-added meat products (i.e., sausages, bacon, hams). In addition to advanced meat processing skills, students will be expected to follow and adhere to HACCP and SSOP food safety standards in the production of the various products.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: ANSCI 3040 or instructor consent

### ANSCI 4150  
**Biology of Lactation**  
Basic anatomy, physiology, endocrinology, and biochemistry of the mammary gland; factors affecting milk yield and composition; diseases and abnormalities of the mammary gland; and principles and mechanics of milking machines.  
**Components:** Class  
**Prereqs/Coreqs:** P: ANSCI 3110 or consent of instructor

### ANSCI 4160  
**Advanced Nutrition Consulting**  
Application of basic nutrition principles to case studies including ration evaluation/formulation, species specific feeding strategies, and on-farm diagnostics. Students will spend a day with a nutrition consultant to understand their daily activities.  
**Components:** Laboratory, Class
ANSCI 4170  
**Small Ruminant Animal Management**  
4 credits  
Principles and practices involved in the production and management of goats, sheep, and other relevant farm animals such as llamas, alpacas, and red deer. Topics will include breed selection and genetics, nutrition, reproduction, and animal health including disease and parasite control, hoof care, and overall management of the flock or herd. The laboratory component will include field trips.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: ANSCI 3000 and ANSCI 3030 and ANSCI 3110 or consent of instructor

ANSCI 4190  
**Seminar in Animal Science**  
3 credits  
A portion of this course will build on the student's skills in professional development by developing and critiquing resumes, developing cover letters, and polish interviewing techniques. The majority of the course will be devoted to the preparation and presentation of scientific research related to animal science. Writing styles used in Animal Science peer-reviewed journals will be explained including the use of literature reviews in manuscript preparation, proper citation of published works, and reference citations within the manuscript. Students will research current topic relevant to animal production, prepare a literature review, and submit a written report. In addition, a short oral presentation that summarizes the written report will be presented.  
**Components:** Seminar  
**Prereqs/Coreqs:** P: junior or senior standing and Animal Science major or consent of the instructor

ANSCI 4200  
**Individual Study in Animal Science**  
1 - 3 credits  
Individual study of the literature and research in specialized areas of the animal sciences.  
**Components:** Independent Study

ANSCI 4960  
**Special Topics in Animal Science**  
1 - 3 credits  
Discussion of contemporary topics relevant to the field of Animal Science.  
**Components:** Independent Study

ANSCI 4970  
**Animal Sciences Internship**  
3 - 6 credits  
Supervised program of study in cooperation with animal science industries and public agencies for credit for Animal Science majors.  
**Components:** Field Studies  
**Prereqs/Coreqs:** P: 45 credits completed or IP and 12 credits of ANSCI completed or IP and good standing and approval by Internship Coordinator Internship

ANSCI 4980  
**Undergraduate Research in Animal Science**  
1 - 3 credits  
Students conduct research projects with faculty in Animal Science.  
**Components:** Research

ANSCI 4990  
**Capstone Symposium in Animal Science**  
1 credit  
This course is designed to give the students an opportunity to showcase their capstone experiences. These experiences could include internships, study abroad, undergraduate research, special topics course, or field experiences. This symposium will serve as an outreach to lower level Animal Science majors as well as the faculty and staff of the School of Agriculture and various community partners and industry professionals.  
**Components:** Independent Study

ART 1010  
**Drawing I: Basic Drawing**  
3 credits  
Introduction to the basic problems of composition and representation of drawing using a variety of professional media and techniques.  
**Components:** Class

ART 1230  
**Art and Children's Literature for Teachers**  
3 credits  
Children’s development in art from birth through elementary school level; basic theories and practice for presenting art understanding and activities in the classroom. Using literature and illustration as the context for teaching art and teaching with art. (Not for art majors)  
**Components:** Class  
**GE:** Fine Arts

ART 1240  
**Art and Social Studies for Teachers**  
3 credits  
Focus on art in the classroom. Children’s development in art and uses of materials appropriate for children through elementary. Assignments and projects will make use of the content of social studies and multiculturalism.  
**Components:** Class  
**GE:** Fine Arts

ART 1410  
**Painting I: Beginning Painting**  
3 credits  
Preparations for painting stressing the tools, techniques and principles of painting.  
**Components:** Class

ART 1420  
**Basic Design I: 2-D**  
3 credits  
Introduction to the elements and fundamental concepts of two dimensional visual arts. For first year art majors.  
**Components:** Class

ART 1520  
**Basic Design II: 3-D**  
3 credits  
Introduction to the elements of three dimensional visual arts. For first year art majors.  
**Components:** Class

ART 1740  
**Introduction to Digital Media**  
3 credits  
Introduction to and exploration in Macintosh computer graphics art media; specifically drawing, painting, page layout, and image manipulation applications used in other art courses. Basic computer art terminology and principles are introduced through class lectures with corresponding assignments given. Introduction to computer art hardware and peripheral devices. Lecture and studio course instruction format.  
**Components:** Class  
**Prereqs/Coreqs:** P: ART 1420 and ART 1520
ART 2030 3 credits
Art and Creativity for Educators
ART 2030 is a visual art and design course for students majoring in Early Childhood Education, Elementary Education, Art Education and General Education wishing to build their proficiency in the integration of arts into content areas in preparation for teaching in a global environment. The course presents evidence and understanding of how diverse populations of learners benefit from engagement in the arts, creative thinking, and intra-disciplinary arts integration. In this course students will discover the role arts play in education, explore how arts can be applied to other professions, and teaching opportunities.

Components: Laboratory, Class
GE: Fine Arts

ART 2140 3 credits
Art History I: Ancient and Medieval
The history of western art from ancient times through Gothic period.

Components: Class
GE: Fine Arts

ART 2200 3 credits
Art History VI: History of American Art
This course will examine concepts of American identity as reflected in the history of its art, design, and architecture from the 17th century to the 21st century with a focus on developing the student’s skills of perception and critical analysis of images.

Components: Class

ART 2210 3 credits
Art History II: Renaissance to 1879
The history of art from the Renaissance to the beginning of Realism in the 19th century.

Components: Class
GE: Fine Arts

ART 2240 3 credits
Illustration I
Exploration of various basic illustration media and techniques. Includes skill, visualization and conceptualization development as well as investigations of relationship between illustration, as an individual art form, and graphic design applications.

Components: Class
Prereqs/Coreqs: P: ART 1420 and ART 1520

ART 2310 3 credits
Drawing II: Styles
The study of various methods of visual representation exploring the stylistic possibilities of textures, contours and linear pattern.

Components: Class
Prereqs/Coreqs: P: ART 1010

ART 2330 3 credits
Illustration II
Continued investigations of various illustration media and techniques, as well as exploration of additional media. Includes further conceptual and skill development of illustration methods as an art form and investigations of the relationship between illustration and graphic design applications.

Components: Class
Prereqs/Coreqs: P: ART 2410 and ART 2240

ART 2340 3 credits
Drawing Concepts
Drawing Concepts will develop an understanding of the principles and elements of design while working with a variety of drawing methods and techniques. Drawing is a child’s first experience using visual design symbolically. The mental transformation in the child’s imagination is the basis for all art. This course will examine the historical development of drawing and its relevance to cultural heritage. Focus is on fostering the student’s skill in communicating ideas on the spot with pencil and paper. Research and writing projects are also key components of this course. Drawing Concepts differs from Drawing I in that it is designed to be a stand alone introduction where as Drawing I is a foundational course to advanced work in the fine arts.

Components: Laboratory, Class
GE: Fine Arts

ART 2410 3 credits
Painting II: Intermediate Painting
Examines the use of paint as a vehicle to further the formal, conceptual and expressive goals of the artist. Elements of design are investigated within a broad range of thematic assignments.

Components: Class
Prereqs/Coreqs: P: ART 1410 and ART 1010

ART 2430 3 credits
Art Survey
A general introduction to the visual arts, including art history, basic principles of design, and the role of creative art both for the individual and in society. Designed to provide guidance in understanding art of all periods and places. (Not for art majors)

Components: Class
GE: Fine Arts

ART 2500 1 - 3 credits
Topics in Art
The study of selected topics common to visual art disciplines. The topic to be covered will be identified in the course title.

Components: Class

ART 2510 3 credits
Sculpture I: Basic
Introduction to the concepts and media of three dimensional art.

Components: Class
Prereqs/Coreqs: P: ART 1520
ART 2520 3 credits
Ceramics I
Hand and wheel methods in clay production, glazing and firing.
Components: Class

ART 2620 3 credits
Ceramics II
Continuation of Art 2520, stressing use of the pottery wheel.
Components: Class
Prereqs/Coreqs: P: ART 2520

ART 2710 3 credits
Graphic Design I: Lettering and Typographic Design
Introduction to the art and techniques of typographical design and applications to graphic design.
Components: Class
Prereqs/Coreqs: P: ART 1420

ART 2730 3 credits
Art History IV: Ethnic Art in the United States
Course explores influences of a variety of cultures on art of present-day America. The focus is on the art of Africa, Mexico and Native America and on contemporary artists whose work grows out of those and other traditions.
Components: Class
Cross Offering: ETHNSTDY 2730
GE: Ethnic Studies, Fine Arts

ART 2740 3 credits
Graphic Design II: Introduction to Design Studio
Introduction to studio techniques and concepts for graphic design based on exploration of formal values in design and their relation to advanced visual communication applications.
Components: Class
Prereqs/Coreqs: P: ART 2710 and Art 1740

ART 2750 3 credits
Native American Art
Art of various culture groups of American Indians, ranging from the Inuit of the far north to tribes and nations of the southwest. Ancient and traditional art forms will be studied as well as history of art in times of culture contact and conflict, continuing through work created by contemporary tribal artists informed by those traditions.
Components: Class
Cross Offering: ETHNSTDY 2750
GE: Fine Arts

ART 2840 3 credits
Art History VII: Introduction to World Architecture
This course will focus on significant buildings throughout world history that are emblematic of the belief systems and historical contexts from which they come.
Components: Class

ART 2920 2 credits
Crafts I: Fibers and Fabrics
Construction using fiber and fabrics; fabric making, and decorating; weaving, printing and related media.
Components: Class

ART 3020 1 - 3 credits
Studies in Art I
Concentrated study in the specific area of studio, which is indicated in the current class schedule. May be repeated under different headings.
Components: Class

ART 3030 3 credits
Studies in Art II
Concentrated study in a specific area of art which is indicated in the current class schedule. May be repeated under different headings.
Components: Class

ART 3150 3 credits
Advanced Throwing
Advanced Throwing is a course tailored to the direction and interest of the student. It requires student independence and self-motivation. Emphasis is on the continuing development of effective visual expression through the potter’s wheel. The student is expected to engage in advanced study of ceramic concepts, craftsmanship, creative processes, and effective expression of aesthetic ideas. This course is designed to establish a structure within which ceramic majors may begin to develop their own individualized program of studio research that will ultimately lead them to the creation of a body of work that has breadth and depth. This course will focus on professional practices that will help the student develop a professional working studio, enhance their portfolio for graduate studies, for teaching positions, commissions, gallery or juried shows or professional opportunities for artists. This course can be repeated for credit until goals are met.
Components: Class

ART 3220 3 credits
Printmaking I
Printmaking I is designed for studio art majors, art education majors, graphic design majors, communication technology majors, and anyone interested in learning the techniques and skills of printmaking within a fine art context. The course is designed to accommodate beginning to intermediate levels of printmaking.
Components: Laboratory, Class

ART 3310 3 credits
Drawing III: Figure Drawing
Drawing the human figure with emphasis on anatomy, structure, composition, and form.
Components: Class

ART 3320 3 credits
Printmaking II
Printmaking II is designed for studio art majors, art education majors, graphic design majors, communication technology majors, and anyone interested in learning the techniques and skills of printmaking within a fine art context. This course expands upon the techniques learned in Print Making One (ART 3220) and allows the student to develop areas of interest more thoroughly.
Components: Laboratory
Prereqs/Coreqs: P: ART 3220
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 3340</td>
<td>Art History III: Modern</td>
<td>3</td>
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<tr>
<td></td>
<td>The history of modern art from Realism to the</td>
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<td>present showing the development of the important</td>
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<td>ideas and styles in art and architecture.</td>
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<td>Components: Class</td>
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<td>GE: Fine Arts</td>
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<td>ART 3440</td>
<td>Painting III: Figure Painting</td>
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<td>Painting III explores the human figure in form,</td>
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<td>proportion and anatomy in studio. Students</td>
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<td>study action, volume, scale, design and</td>
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<td>expressive potential of human form. Formal</td>
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<td>aspects of painting are studied through</td>
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<td>intensive observation of live models.</td>
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<td>Components: Class</td>
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<td>Prereqs/Coreqs: P: ART 2410 and ART 3310</td>
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<td>ART 3510</td>
<td>Sculpture II: Intermediate</td>
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<td>Sculpting heads of humans, animals and aliens</td>
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<td></td>
<td>to experience clays, conditioning clay, camera,</td>
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<td>calipers and ruler, measurement charts,</td>
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<td>modeling tools, hollowing out tools, armatures,</td>
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<td>turntables, sculpture stand, kiln and patina.</td>
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<td>Components: Class</td>
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<td>Prereqs/Coreqs: P: ART 2510</td>
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<tr>
<td>ART 3530</td>
<td>Art History V: Far Eastern Art</td>
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<td>A survey of the art of China, India and Japan.</td>
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<td>Components: Class</td>
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<td>GE: Fine Arts, International Education</td>
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<tr>
<td>ART 3740</td>
<td>Graphic Design V: History and Systems</td>
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<tr>
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<td>A history of graphic design in the visual arts,</td>
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<td>the role of the graphic artist and designer,</td>
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<td>and practical experience in the use of the</td>
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<td>design systems.</td>
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<td>Components: Class</td>
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<td>ART 3800</td>
<td>Ceramics III: Advanced</td>
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<td>Advanced work in clay construction, stressing</td>
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<td>individual projects.</td>
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<td>Prereqs/Coreqs: P: ART 2520 and ART 2620</td>
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<td>ART 3910</td>
<td>Graphic Design III: Advanced Typography</td>
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<td>Advanced studies into the art and techniques of</td>
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<td>typographical design and applications to graphic</td>
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<td>ART 3940</td>
<td>Advanced Ceramics</td>
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<td>study of ceramic concepts, craftsmanship,</td>
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<td>course will focus on professional practices that</td>
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<td>Components: Laboratory</td>
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<td>Prereqs/Coreqs: P: ART 2520 and ART 2620.</td>
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<td>ART 3950</td>
<td>Advanced Sculpture</td>
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<td>Advanced Sculpture is a course tailored to the</td>
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<td>study of sculptural concepts, craftsmanship,</td>
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<td>Components: Laboratory</td>
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<td>Prereqs/Coreqs: P: ART 2510 and ART 3510.</td>
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<td>ART 3980</td>
<td>Clay Figure Sculpture</td>
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<td>This course is an introduction to ceramic figure</td>
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<td>sculpture using clay as the medium. The class</td>
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<td>is a study of the human body represented in</td>
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<td>three dimensions. Content includes building,</td>
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<td>surfacing and firing ceramics plus processes of</td>
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<td>hand forming clay including: pinch, coil-</td>
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<td>building, slab building, modeling, and carving.</td>
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<td>The course format will included, Key Note and</td>
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<td>video presentations, movies and videos</td>
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<td>available on the university site, two life</td>
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<td>model sequences, demonstrations, critiques and</td>
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<td>team firings. The course includes three themes,</td>
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<td>each differing in focus; the “perceptual” the</td>
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<td>“gestural”, and the “interpretive”. Group</td>
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<td>“lab work” loading, firing and unloading class</td>
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<td>Prereqs/Coreqs: P: ART 1010</td>
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ART 4030 3 credits
Graphic Design IV: Advanced Graphic Design Studio
Continuation of studio techniques and advanced concepts for graphic design based on further exploration of formal values in design and their relation to advanced visual communication.
Components: Class
Prereqs/Coreqs: P: ART 2740

ART 4040 3 credits
Ed TPA for Art & Music Educators
ART 4040 is a teacher preparation course required for all Art Education and Music Education majors to be taken in the fall of their senior year during Pre-Student Teaching—the semester before Student Teaching Internship. The course is cross listed with MUSIC and provides instruction in the development of written artifacts, commentaries, lesson plans, assessment tools and video tape documentation in preparation for the Ed Teacher Performance Assessment (Ed TPA) portfolio requirements. This course is taken in conjunction with TCHG 4210 Pre-Student Teaching to complement student’s clinical experience by preparing them to research, analyze and write assignments associated with the 4 tasks of the Ed TPA. The Ed TPA is a new educational mandate for all teacher preparation programs, required by the DPI for teacher licensure in Wisconsin. All teacher candidates enrolled in the University of Wisconsin-Platteville are required to complete the Ed TPA during their final semester of Student Teaching Internship and is a pass/fail high stakes assessment.
Components: Class

ART 4150 3 credits
Public Space and Public Art
Public Space and Public Art is a studio art course focused on the study of contemporary art in public spaces with particular attention to the role of the artist in creating public art. This course will ask the student to define public art and public space and deal with the aesthetic issues involved in installing works of art into pre-existing urban spaces with their own particular forms, histories and popular associations. How does public art intersect with the related art of urban design? What are the consequences of art crossing over into the realm of architecture? What are the problems the artist encounters in attempting to represent neighborhood-based communities? How can public art critically intervene in pre-existing urban space? Students will examine examples of public art: Richard Serra’s Tilted Arc and Maya Lin’s Vietnam Memorial for instance both proved exceptionally controversial. The nature of those controversies will serve to illuminate a number of the main issues raised in the course. Studio work will require preparation of a site-specific public art installation including drawing, photography, scaled model making, and/or digital processes culminating in an actual production of temporary or permanent site-specific work for installation on campus or in the surrounding community.
Components: Class

ART 4230 3 credits
Theory of Art
A survey of the theory of art with an emphasis on contemporary ideas.
Components: Class
GE: Fine Arts

ART 4310 3 credits
Drawing IV: Intermediate Drawing
Drawing IV students will learn to expand visual awareness and develop their control of drawing as a tool for research and invention. Drawing problems from simple structural analysis to more sophisticated exploration of subject matter and finally to individual interpretation. Drawing media applications and exercises are expanded in this intermediate level class.
Components: Class
Prereqs/Coreqs: P: ART 3310

ART 4340 3 credits
Drawing V: Perspective Drawing
Detailed studies of ways in which principles of perspective are used to represent objects in space.
Components: Class

ART 4400 3 credits
Painting IV: Advanced Painting
A continuation of ART 2410 and ART 3440.
Components: Class
Prereqs/Coreqs: P: ART 3440

ART 4460 3 credits
Painting VI: Watercolor
An introduction to various methods of water color painting.
Components: Class

ART 4510 3 credits
Sculpture III: Advanced, Materials and Techniques
Advanced work in sculpture with special emphasis on the casting of metal sculpture and foundry methods, techniques and preparations for casting.
Components: Class
Prereqs/Coreqs: P: ART 2510 and ART 3510

ART 4530 3 credits
Art Education I: Elementary and Middle School Methods
Teaching of art on the elementary and middle school level. A study of physical plants, supplies, and unit plans. (For students majoring in art education)
Components: Class

ART 4630 3 credits
Art Education II: Middle and High School Methods
A continuation of ART 4530 with an emphasis on the teaching and supervision of art in middle and high schools. (For students majoring in art education) Should be taken simultaneously with TEACHING 3910.
Components: Class
Prereqs/Coreqs: P: junior standing

ART 4640 3 credits
Drawing VI: Advanced Drawing
Advanced problem-solving in drawing requiring high degree of visual refinement with emphasis on understanding media potential. Use of still life and figure forms in studio. Further investigation of principles concerning complex forms and light with the use of advanced media. Independent studio work component.
Components: Class
Prereqs/Coreqs: P: ART 2310
ART 4660 Cooperative Field Experience 1–8 credits
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department.

Components: Field Studies

ART 4800 Painting V: Materials and Techniques of Painting 3 credits
Technical exploration of art media and materials used in painting and drawing applications. Traditional and contemporary methods for creating art media and tool use. Conservation and restoration issues investigated. Lecture and studio assignment instruction format.

Components: Class
Prereqs/Coreqs: P: ART 1720 and 4 credits in 3000 or above level art courses

ART 4810 Independent Work in Crafts 2–3 credits
Independent creative work in craft areas chosen by the student.

Components: Independent Study

ART 4820 Independent Work in Design 2–3 credits
Advanced work on design projects chosen by the student.

Components: Independent Study
Prereqs/Coreqs: P: ART 1420 and ART 1520

ART 4830 Independent Work in Printmaking 2–3 credits
Advanced work in printmaking media elected by the student.

Components: Independent Study
Prereqs/Coreqs: P: ART 3220

ART 4840 Independent Work in Drawing 2–3 credits
Drawing as an independent creative medium.

Components: Independent Study
Prereqs/Coreqs: P: ART 2310

ART 4850 Independent Work in Ceramics 2–3 credits
Advanced work on projects chosen by the student.

Components: Independent Study
Prereqs/Coreqs: P: ART 3510

ART 4860 Independent Work in Painting 2–3 credits
Advanced painting in media elected by the student.

Components: Independent Study
Prereqs/Coreqs: P: 6 credits in painting and ART 2410

ART 4870 Independent Work in Sculpture 2–3 credits
Advanced work on sculpture projects chosen by the student.

Components: Independent Study

ART 4880 Independent Work in Sculpture Casting 2 - 3 credits
Advanced work on sculpture projects chosen by the student.

Components: Independent Study

ART 4890 Independent Study in Art History 2 - 3 credits
Independent research on specialized problems.

Components: Independent Study
Prereqs/Coreqs: P: ART 2140 or ART 2210

ART 4900 Independent Study in Art Education 2 - 3 credits
Independent research on problems in art education. For students majoring in art education.

Components: Independent Study
Prereqs/Coreqs: P: ART 4530 and ART 4630

ART 4930 Presentation and Marketing 2 credits
The basic goals of the course are to provide an understanding of the proper presentation of two and three dimensional art work as well as introduce students to marketing techniques.

Components: Class

ART 4950 Senior Art Show 1 credit
This is a directed studies course for art majors and will meet as a seminar class four times during the semester.

Components: Seminar
Prereqs/Coreqs: P: ART 4930

BIOLOGY

BIOLOGY 1020 BioQuest: Foundations for College Success 1 credit
BioQuest: Foundations for College Success
This course provides an opportunity for new students to learn about the biology program, staff, and resources available at UW-Platteville. Designed to help first-year biology students make a successful transition to college life, students will be given opportunities to develop skills to excel in and beyond college. Topics include: time management, learning styles, study and test-taking skills, responsibility and professionalism, the importance of biology-related experiences and jobs before graduation, use of electronic academic tools, curriculum requirements and registration issues, balance in life, and effective communication.

Components: Class
GE: Entry Level requirement
Prereqs/Coreqs: P: Biology or related major

BIOLOGY 1150 General Biology 5 credits
General Biology
The fundamental features of living organisms; cell and tissue structure, growth, basic physiological processes, reproduction and inheritance, classification, ecology, and evolution. Not required nor counted toward a major or a minor in biology.

Components: Laboratory, Class
GE: Natural Science
BIOLOGY 1350 5 credits
General Botany
Structures and functions of principal groups of plants and plant like organisms; their ecological and phylogenetic relationships.
  Components: Laboratory, Class
  GE: Natural Science

BIOLOGY 1650 5 credits
The Unity of Life
This course is a dynamic exploration of Biology from the biochemical level through the individual organism. In this exploration students will investigate the interactions of the internal workings of the cell, the cells themselves, tissues and organ systems in the physiology of organisms from single celled bacteria through multi-cellular plants and animals.
  Components: Laboratory, Class
  GE: Natural Science
  Prereqs/Coreqs: P: Biology or related major and MATH 15 with a grade of "C" or better or mathematics proficiency level of 15 or above and English 0010 with a grade of "C" or better or an English placement level of English 1130

BIOLOGY 1750 5 credits
The Diversity of Life
In this course the ecological and evolutionary connections between all living organisms will be explored and the following questions will be addressed: 1) Why are there so many species and how did there get to be so many? 2) How does fitness unify and diversify life? 3) How do organisms reproduce? and 4) What is the biological future of life? Organismal through ecosystem level processes will be explored.
  Components: Laboratory, Class
  GE: Natural Science
  Prereqs/Coreqs: P: Biology or related major and MATH 15 with a grade of "C" or better or mathematics proficiency level of 15 or above and English 0010 with a grade of "C" or better or an English placement level of English 1130

BIOLOGY 2040 4 credits
Cell Biology
Organization of cells and their components; analysis of light and electron microscopy of cytoplasmic and nuclear components of the cell and their relation to heredity, physiology, reproduction and development.
  Components: Laboratory, Class
  Prereqs/Coreqs: P: BIOLOGY 1650 and one semester of chemistry

BIOLOGY 2130 3 credits
Plants and Society
A global exploration of plants and their uses by humans from historical, cultural, economic, and botanical perspectives.
  Components: Laboratory, Class
  GE: International Education
  Prereqs/Coreqs: P: BIOLOGY 1150 or BIOLOGY 1350 or BIOLOGY 1650 or BIOLOGY 1750

BIOLOGY 2140 4 credits
Human Anatomy and Physiology I
Designed as the first of a two-semester sequence, this sequence explores structure (anatomy) and function (physiology) of the human body from a systematic approach. In addition to introductory materials, this semester includes study of the integumentary system, nervous system including special senses, endocrine system and skeletal system. Throughout the semester, systems will be analyzed at the molecular, cellular, tissue, organ and organ system levels. This course is designed for science majors.
  Components: Laboratory, Class
  Prereqs/Coreqs: P: BIOLOGY 1650 or consent of instructor

BIOLOGY 2240 4 credits
Human Anatomy and Physiology II
Designed as the 2nd of a two-semester sequence, this course continues the exploration of the structure (anatomy) and function (physiology) of the human body from a systematic approach. This semester includes the study of the muscular system, cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system, reproductive system and early development. Throughout the semester systems will be analyzed at the molecular, cellular, tissue, organ and organ system levels. This course is designed for science majors.
  Components: Laboratory, Class
  Prereqs/Coreqs: P: BIOLOGY 2140 (grade of "C-" or better required)

BIOLOGY 2250 3 credits
Tropical Marine Ecosystems
This course is built around a three week summer field course based at the University of the South Pacific’s Marine Studies Program, taught by experts in their field at UW-Platteville and USP. Topics for study will include tropical marine environment, communities, and conservation. There will be several required field excursions.
  Cross Offering: GEOGRPHY 2250
  Components: Class

BIOLOGY 2340 4 credits
Essentials of Anatomy and Physiology
As a one semester offering, this course is designed to cover the essentials of human anatomy and physiology. It will serve as a basic introduction to the study of the complex interdependence of structure and function from a systematic approach. All primary body systems will be addressed.
  Components: Laboratory, Class
  GE: Natural Science

BIOLOGY 2420 3 credits
Fundamentals of Biological Investigations
This course illustrates the process of science from a biological perspective. Students will learn to design, execute, analyze, and present biological research. Through a combination of readings, discussions, projects, lab exercises, and field work students will experience the challenges and rewards of acquiring biological information.
  Components: Laboratory, Class
  Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 and ENGLISH 1130 and ENGLISH 1230
BIOLOGY 242W
Fundamentals of Biological Investigations
3 credits
A WRITING EMPHASIS COURSE IS DESIGNED TO EFFECTIVELY USE WRITING TO ENHANCE STUDENT LEARNING OF COURSE SPECIFIC CONTENT THROUGH VARIOUS MEANS SUCH AS SELF-REFLECTION, ANALYSIS, PROBLEM SOLVING AND RESEARCH. This course illustrates the process of science from a biological perspective. Students will learn to design, execute, analyze, and present biological research. Through a combination of readings, discussions, projects, lab exercises, and field work students will experience the challenges and rewards of acquiring biological information.
Components: Laboratory, Class
GE: Writing Emphasis
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 and ENGLISH 1130 and ENGLISH 1230

BIOLOGY 2450
Fungi, Algae and Bryophytes
4 credits
This course covers the major groups of living algae, fungi, fungal-like protists, and bryophytes. Although classic concepts of taxonomy, evolution, morphology, and ecological and economic importance will be included in this diversity survey course, the material will be presented from a community ecology approach: which organisms would be found in a particular environment and why? Lectures will be standard lecture as well as discussion format. Labs will include a variety of essential techniques for studying these diverse organisms, such as microscopy, use of identification keys, field sampling, collection/processing, and culturing.
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1350 or (BIOLOGY 1650 and BIOLOGY 1750). C: SPEECH 1010, BIOLOGY 3450 recommended

BIOLOGY 2640
Invertebrate Zoology
4 credits
Systematic survey of the invertebrates. Both representative and diverse forms will be studied within each group. Includes animal micro-technique procedures.
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor

BIOLOGY 3030
Ornithology
3 credits
Anatomy, physiology, life histories, and ecology of birds. Laboratory study and field trips emphasize identification of local species.
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 2420 or consent of instructor

BIOLOGY 3040
Comparative Anatomy of the Vertebrates
4 credits
Comparative studies of organs and systems of Vertebrata; includes laboratory dissections of shark and necturus and cat.
Components: Laboratory, Class
Prereqs/Coreqs: P: (BIOLOGY 2140 and BIOLOGY 2240) or BIOLOGY 2340 or consent of instructor

BIOLOGY 3120
Animal Tissue Culture
2 credits
Components: Laboratory, Class
Prereqs/Coreqs: P: one college level biology and chemistry course or consent of instructor

BIOLOGY 3230
Mammalogy
3 credits
A review of the mammalian fauna focusing on the major orders and families. Key morphological features, life history, and zoogeographic patterns will be reviewed for major groups. Discussion of current conservation and management issues. Lab includes identification of native Wisconsin mammals and an introduction to standard field and lab techniques for the study of mammals.
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1750 and BIOLOGY 2420 or consent of instructor

BIOLOGY 3240
Microbiology
4 credits
Classification, morphology, physiology, and genetics of microbes; relation of bacteria to viruses; survey of bacteria found in the environment and their control; principles of immunity and diseases.
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1650 or BIOLOGY 1750 and CHEMST 1140 or consent of instructor

BIOLOGY 3330
Genetics
3 credits
This course explores what genes are, how they are expressed, and how they are passed on from generation to generation. In addition, applications of genetics in relation to mutation, disease, gene therapy, criminalistics and genetic engineering are also explored.
Components: Class
Prereqs/Coreqs: P: BIOLOGY 1650 or consent of instructor

BIOLOGY 3450
Ecology and Evolution
3 credits
Ecology and evolution will be considered from the perspectives of individual organisms, populations, communities, and ecosystems in an effort to illustrate the relationships between these concepts and the importance of how they both shape our world. Students will be introduced to the history, major principles, theories, dynamics, and approaches of ecology and evolution.
Components: Class
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor
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<tr>
<th>Course Code</th>
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| BIOLOGY 3460 | 3 credits | Ecological Methods and Research                 | This class supplements BIOLOGY 3450 Ecology and Evolution and further explores the major principles, techniques, and approaches in ecology. This course will explore ecology in the field and laboratory with the goal of enabling students to plan, execute, and scrutinize ecological research and appreciate how science and research fit into ecology. | Components: Laboratory, Class  
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 and BIOLOGY 2420; C: BIOLOGY 3450 or consent of instructor |
| BIOLOGY 3530 | 3 credits | Biotechnology                                    | Genetic elements that control gene expression. Procedures for creating and isolating cloned genes. Genetic engineering and uses of recombinant DNA. | Components: Laboratory, Class  
Prereqs/Coreqs: P: one college level biology and chemistry course or consent of instructor |
| BIOLOGY 3550 | 4 credits | Morphology and Evolution of Vascular Plants    | This broad course covers the structure or form (morphology) of the adult plant, its tissues, development and reproductive details, as well as the ecology, evolutionary history, and taxonomy of the group in which it is classified. Focus will be given to all phyla of extant vascular plants and major groups of extinct vascular plants, presenting the organisms from an evolutionary perspective. | Components: Laboratory, Class  
Prereqs/Coreqs: P: BIOLOGY 1350 or (BIOLOGY 1650 and BIOLOGY 1750) |
| BIOLOGY 3620 | 2 credits | Immunology                                       | The basic concepts of immunology. The normal and abnormal immune response.                             | Components: Class  
Prereqs/Coreqs: P: one college level biology and chemistry course |
| BIOLOGY 3650 | 4 credits | Plant Communities of Wisconsin                  | This course provides an introduction to the major plant communities of Wisconsin and neighboring states. It emphasizes the identification, biogeographic distribution, interrelationships, conservation and management of the major regional plant communities as well as their key plant species. Two extended weekend field trips are required. | Components: Laboratory, Class  
Prereqs/Coreqs: P: BIOLOGY 1650 and 1750 or BIOLOGY 1350 or consent of instructor; recommended: BIOLOGY 3450 |
| BIOLOGY 3750 | 3 credits | Freshwater Biology                              | Examination of the physical components and biological communities of lakes, streams, and wetlands and the relationships between them. Integration of fieldwork, scientific literature, and laboratory analyses. | Components: Laboratory, Class  
Prereqs/Coreqs: P: BIOLOGY 1750 and BIOLOGY 2420 and (CHEMISTRY 1050 or CHEMISTRY 1140) or consent of instructor, BIOLOGY 3450 recommended |
| BIOLOGY 4010 | 1 credit  | Workshop in Biology                             | Varying topics. Does not count toward major or minor in Biology or minor in Biotechnology.         | Components: Class |
| BIOLOGY 4040 | 5 credits | Molecular Biology                               | Detailed structural analysis of the biological molecules DNA, RNA, and proteins in relation to cellular processes. Exploration of experimental approaches that explain the molecular basis for all life activities. | Components: Discussion, Laboratory, Class  
Prereqs/Coreqs: P: BIOLOGY 2420 and BIOLOGY 2040 and BIOLOGY 3330 and one semester of chemistry or consent of instructor |
| BIOLOGY 4130 | 3 credits | Mammalian Endocrinology                         | The structural and functional classification of hormones, principles of hormone action, and the regulation of body functions by the endocrine system with emphasis on homeostasis. | Components: Class  
Prereqs/Coreqs: P: BIOLOGY 1650 or AGSCI 4110 and CHEMISTRY 1240 or consent of instructor |
| BIOLOGY 4150 | 4 credits | Forensic Botany                                  | A survey of the structures of plants, fungi, and algae that can be used as botanical evidence in criminal investigation. Discussion of current literature, legal issues and future trends. Laboratory includes microtechnique, sample collection and preservation techniques, and testing methods. | Components: Laboratory, Class  
Prereqs/Coreqs: P: BIOLOGY 1150 or BIOLOGY 1350 or BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor; recommended: BIOLOGY 2450 and BIOLOGY 3550 |
| BIOLOGY 4240 | 4 credits | Advanced Physiology                             | In depth study of physiologic processes from molecular to organismic level. Approached from a topical format, emphasizing recent advancements. | Components: Laboratory, Class  
Prereqs/Coreqs: P: BIOLOGY 2140 and BIOLOGY 2240 or BIOLOGY 2340 and BIOLOGY 2420 and CHEMISTRY 1240 |
BIOLOGY 4340  4 credits
Mammalian Histology
The organization of cells and their products to form tissues and organs; morphological and functional comparisons of tissue organization of representatives from the class Mammalia.
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor

BIOLOGY 4410  1–3 credits
Topics in Biology
Presentations of biological topics.
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor

BIOLOGY 4440  4 credits
Human Gross Anatomy
There is nothing more fascinating than learning about the human body. Its structure, organization and physiology are of interest from a personal health and clinical standpoint. This course will provide the opportunity for advanced students to engage in an intense study of human gross anatomy. This course will have a significant lab component where students will apply concepts of anatomy and physiology to the prospected human cadaver.
Components: Laboratory
Prereqs/Coreqs: P: BIOLOGY 2140 and BIOLOGY 2240 or BIOLOGY 2340 or consent of instructor

BIOLOGY 4520  2 credits
Biotechnology Seminar
Selected topics from among recent advances in biotechnology.
Components: Seminar
Prereqs/Coreqs: P: BIOLOGY 3530 or consent of instructor

BIOLOGY 4530  3 credits
Plant Pathology
This course covers the major aspects of plant disease including abiotic and biotic causes, disease and symptom recognition, how disease occurs, and methods and techniques for prevention and control.
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1350 (or BIOLOGY 1650 & BIOLOGY 1750) AND at least one additional 2000+ level biology or plant-related course or consent of instructor; C: junior standing

BIOLOGY 4660  1–8 credits
Biology Internship Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry, or institution. The nature of the assignment, type of experience, number of credits, and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department. Does not count toward a major or a minor in biology.
Components: Field Studies

BIOLOGY 4710  1–3 credits
Selected Regional Habitats
Offers a first-hand introduction to the flora and fauna of selected unusual habitats in the form of an interim field trip. Up to three credits can be counted toward a biology major.
Components: Field Studies
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor

BIOLOGY 4920  1–3 credits
Independent Research in Biology
Individual specialized study.
Components: Independent Study
Prereqs/Coreqs: P: approval of the biology department chairperson and faculty advisor before registration. Up to two credits can be counted toward a biology major. Junior or senior standing

BIOLOGY 4970  1 credit
Senior Thesis
This course provides students a unique, “capstone” opportunity to conduct research in collaboration with their peers and integrate knowledge from the different areas of biology. With assistance from a faculty coordinator, students from all areas of biology will work together to complete their individual independent research projects. Students will produce a manuscript-quality report and make a formal presentation on their research.
Components: Class
Prereqs/Coreqs: P: Biology major with senior standing and BIOLOGY 4920

BIOLOGY 4990  1 credit
Capstone Course: From Atoms to Ecosystems - The Study of Life
This course is an exciting opportunity for students to integrate knowledge from the different areas of biology and associated disciplines to an interrelated whole, the study of life. In this endeavor, students will be applying their knowledge to current scientific and bioethical issues in biology. Students will also explore and reflect on what it means to be a biologist.
Components: Class
Prereqs/Coreqs: P: Biology major with senior standing

BUSADMIN 1210  1 credit
Introduction to ERP
Introduction to ERP Systems covers the key processes supported by modern ERP systems. This course is designed to introduce the concept of integrated business processes. The main integration points between processes and their cross-functional nature will be explored to provide the ability to apply an integrated perspective to business processes. It will examine the core concepts applicable to all ERP environments, and explain how those concepts can be utilized to implement business processes within the SAP system.
Components: Class

BUSINESS ADMINISTRATION

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| BUSADMIN 1300 | 3 credits | Global Business | This course will survey current issues and trends in global business. Specific emphasis will be placed on the impact of these trends on managers in the multinational organizational setting. Topics include a study of the economic, financial and legal environments of international business. In addition, trade issues and corporate strategies will be discussed.  
  **Components:** Class  
  **GE:** International Education |
| BUSADMIN 2100 | 3 credits | Supply Chain Management | This course focuses on the principles and concepts of Supply Chain Management, as well as a review of the role of Supply Chain Management functions within an organization. Analytical and evaluative skills are developed through critical examination of theories, models, tools and techniques employed. Topics covered include Strategic Sourcing, Forecasting and Collaborative Planning, Inventory Management, Customer Relationship Management, and Service Response Logistics.  
  **Components:** Class |
| BUSADMIN 2330 | 3 credits | Leadership and Management | An introduction to the role of management through discussion of the planning, organizing, leading, and controlling functions. Behavioral, quantitative, and qualitative aspects of managerial decision making are explored.  
  **Components:** Class |
| BUSADMIN 2340 | 3 credits | Data Analysis & Decision Making | Students will learn quantitative decision making skills for managers. Focus will be given to understanding statistics and management science concepts that can be used by managers in the decision making process. Students will learn to use Excel to analyze data, conduct statistical hypothesis tests, and apply management science techniques to make decisions.  
  **Components:** Class  
  **Prereqs/Coreqs:** P: MATH 1730 or higher and excel competency |
| BUSADMIN 2630 | 3 credits | Introduction to Marketing | The study of marketing encompasses the activities involved in anticipating, managing, and satisfying demand via the exchange process. Activities include environmental analysis, marketing research, consumer analysis, product planning, distribution planning, promotion planning, price planning, and marketing management. The dynamic nature of marketing, the complex environment surrounding today’s marketers, and various marketing functions, performers, and strategies are examined.  
  **Components:** Class |
| BUSADMIN 2950 | 1–3 credits | Special Issues in Business | Includes discussion of current issues and trends that have an impact on the business sector. Specific topics will vary.  
  **Components:** Class |
| BUSADMIN 3030 | 3 credits | Human Resource Management | An introduction to topics such as human resource planning, equal employment opportunity, selection, training and development, performance appraisal, compensation, safety and health, and employee and labor relations. The impact of laws and of societal and business trends on human resource functions is presented. Each manager’s role in dealing with human resources is emphasized.  
  **Components:** Class  
  **Prereqs/Coreqs:** P: BUSADMIN 2330 or AGINDUS 1500 and completion of 30 credits |
| BUSADMIN 3100 | 3 credits | Compensation Management | An exploration of the discipline of compensation management. The processes of job analysis and job evaluation are discussed as methods to determine internal pay equity. Market wage surveys are presented as tools to ensure external equity. Wage scale development and various employee benefit options are discussed. Other topics include wage and benefit related laws, performance appraisal, and motivation theories.  
  **Components:** Class  
  **Prereqs/Coreqs:** P: BUSADMIN 3030 |
| BUSADMIN 3110 | 3 credits | Integrated Marketing | Integrated marketing is the approach to managing the promotional effort of the firm. The concept of integrated marketing is to manage a diverse array of promotional tools (advertising, public relations, Internet, direct mail, personal selling, sales promotions, coupons, direct response, celebrity spokespeople, premiums and other promotional tools) so that a cohesive, targeted and integrated communication program is the result. This approach allows the firm to more effectively and efficiently use the tools of promotion to achieve marketing and sales objectives.  
  **Components:** Class  
  **Prereqs/Coreqs:** P: BUSADMIN 2630 or AGINDUS 2430 |
| BUSADMIN 3120 | 3 credits | Retailing | A study of various types of retail institutions and their characteristics. The many kinds of retail ownership options, strategy mixes, locations, organizational formats, merchandise and inventory management techniques, and promotional policies are compared and evaluated. Cases reflecting a global perspective are included.  
  **Components:** Class  
  **Prereqs/Coreqs:** P: BUSADMIN 2630 or AGINDUS 2430 |
| BUSADMIN 3130 | 3 credits | The Legal Environment of Business | This is a study of the legal and ethical environment of business and its effects on business decisions. The course includes the substantive areas of contract law, tort, criminal law, government regulation, employment law, consumer protection, antitrust, environmental law and securities law. We will also examine the ethical implications of legal disputes in business.  
  **Components:** Class |
BUSADMIN 3140 3 credits
Managerial Law
This course is a continuation of BUSADMIN 3130, Legal Environment of Business. Course coverage includes property, wills, trusts, and estates, agency, business organizations, secured transactions and bankruptcy, and commercial paper.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 3130

BUSADMIN 3150 3 credits
Principles of Real Estate
Classification and acquisition of property rights, types of estates in property, relation of landlord and tenancy, conveyancing, liens and mortgages, real estate brokerage.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 3130 or consent of instructor

BUSADMIN 3230 3 credits
Small Business Management
This course acquaints the student with many aspects of owning and operating a small business. Topics covered include the characteristics of small business managers, planning and organizing for a new or an ongoing business, staffing a business, producing and marketing a product or service, profit planning and control, security, and the specifics of developing a business plan.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430

BUSADMIN 3240 3 credits
E-Commerce and E-Marketing in Today’s World
This course will cover how a business can market its products, services and ideas using Internet technology. Topics will include—but will not be limited to—e-commerce as part of the marketing mix, search engine optimization, selling through the Internet, social networking, blogs, measuring results of the e-commerce strategy and email as permission marketing.
Components: Discussion, Class
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430

BUSADMIN 3340 3 credits
Management, Gender and Race
This course reviews the changing nature of management and explains why gender and race/ethnicity have become important concerns of business. It examines the status of women and people of color in managerial or administrative positions and discusses socialization processes, stereotypes, equal employment opportunity laws, diversity management, illegal harassment, and power in organizations. Networking, mentoring, work/life balance, and career planning also are addressed.
Components: Class
Cross Offering: ETHNCSTUDY 3340 AND WOMGENDR 3340
GE: Ethnic Studies, Gender Studies
Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500 or junior standing

BUSADMIN 3400 3 credits
Personal Financial Planning
A study of the major financial decisions encountered by individuals. The course explores a variety of consumer problems found in a modern, complex economy. Subjects covered include the financial planning process, money management, consumer borrowing, insurance planning, budgeting, investments, and retirement and estate planning.
Components: Class
Prereqs/Coreqs: junior standing

BUSADMIN 3430 3 credits
Risk Management
This course covers the theory of risk and introduces the basic concepts of risk management. Special emphasis is placed on risk transfer to insurance companies. The course also introduces basic insurance concepts for both the individual and corporate consumers because risk management decisions presuppose a thorough understanding of the nature and functions of insurance.
Components: Class
Prereqs/Coreqs: junior standing

BUSADMIN 3450 3 credits
Employment Law
An analysis of employment relations legislation and its impact on areas of human resource management. Primary emphasis on employment discrimination and affirmative action, unemployment compensation, and workers compensation, the Fair Labor Standards Act, OSHA, and ERISA.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 3030

BUSADMIN 3500 3 credits
Employee Training and Development
Employee Training and Development is an upper-division course that examines the principles and practices of these two critical processes in a variety of organizational settings. The course presents a comprehensive overview of training and development topics. Throughout the course students acquire and then demonstrate a knowledge base in each of these areas. At the end of the course, students are prepared to conduct efficient and effective training and development programs within the Human Resources department of an organization.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 3030

BUSADMIN 3530 3 credits
Organizational Behavior
Organizations, in and of themselves, do not behave; the people within them do. This course will give students a comprehensive view of organizational theory and behavior by studying individual and group behaviors and how these interrelate with the organization’s structure, systems and goals.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500

BUSADMIN 3750 3 credits
Legal Environment of Business
A comprehensive treatment of the legal environment of business organizations. Course coverage includes how law affects business decisions and the activities of organizations as well as the role of insurance and risk management in an organization.
Components: Class
Prereqs/Coreqs: junior standing
BUSADMIN 3540  3 credits
Quality Management
Provides an understanding of the tools, language, and
and techniques used in the field of Quality Management. The
history of the quality movement, major tenets of the field,
themorists and their philosophies, and the use of basic tools
of Quality Management will be covered in this course. The
course focus will be project-based in a team environment.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500

BUSADMIN 3580  3 credits
Principles of Project Management and Sustainable
Development
This is an upper division course that brings together business-
minded students with STEM-minded students who are
interested in project management, particularly understanding
how sustainable development can be integrated with business
models for selecting projects from a portfolio, and sustainable
aspects related to project management. Includes the ten
knowledge areas within the discipline of project management.
Students also work in teams to analyze case studies for
decision-making related to energy conservation and non-
energy conservation projects.
Components: Class
Prereqs/Coreqs: ENERGY 2340 or JR Standing in
Business Administration major or Accounting major

BUSADMIN 3600  3 credits
Regulatory Compliance Management
An examination of the response of business to the actions
of government agencies and regulatory legislation in the
United States. Content includes the social, political, and
economic rationale of government regulation with emphasis
on administrative law, regulatory theories and applications,
and management regulatory compliance techniques and
strategies.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 2330

BUSADMIN 3620  3 credits
Corporate Finance
An introduction to the finance function and financial
management of the firm, including techniques of financial
analysis, working capital management, capital budgeting,
the acquisition and management of corporate capital, and
dividend policy. Analysis of how the financial manager
influences the decision-making process within the firm.
Components: Class
Prereqs/Coreqs: P: a "C-" or better in ACCTING 2010
and completion of university math requirement

BUSADMIN 3630  3 credits
Advertising
This course examines the function of advertising as a
communications and promotional tool. Although each
organization is different, the course will provide numerous
best practices that universally apply to generate interest in
a product, cause, or company. Emphasis will be placed on
strategic and persuasive messaging across multiple media.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS
2430

BUSADMIN 3640  3 credits
Financial Systems Analysis
A macro-finance course that deals with the financial system
of the United States. Major emphasis is placed on financial
markets, financial institutions, financial assets, and their
interaction within the financial
Components: Class
Prereqs/Coreqs: P: BUSADMIN 2360

BUSADMIN 3650  3 credits
International Finance
This course is a comprehensive study of the role of
international finance in business. Topics will include
the foreign exchange market, determination of interest
rates, international banking, international capital markets,
international investments and international corporate finance.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 2360

BUSADMIN 3700  3 credits
Marketing Research
Marketing is an evolving field that constantly looks for
improvement. Research in its various forms is the tool to
inform that evolution. This course will provide both theoretical
foundations and direct experience in conducting informative
marketing research. Topics include formal and impromptu
marketing research projects that marketing professionals
might encounter in a professional setting, the research
process and designs, evaluation of data, and presentation of
findings.
Components: Class
Prereqs/Coreqs: P: (BUSADMIN 2630 or AGINDUS
2430) and (ECONOMIC 2410 or MATH 1830 or
BUSADMIN 2340)

BUSADMIN 3710  3 credits
Bank Management
The purpose of the course is to analyze the issues involved in
managing commercial banks and related financial institutions.
The theory and practice of bank management will be studied
with particular emphasis on the topics of asset management,
and capital adequacy. Additionally, new dimensions in banking
structure will be introduced.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 2620

BUSADMIN 3720  3 credits
International Marketing
A conceptual focus on the breadth of the international
marketing management area including problems, strategies
and techniques, plus a survey background in such
environmental factors as legal, cultural, economic, financial,
and regional characteristics. The purpose is to prepare
students and practicing business managers for successful
operations in the world marketing environment of developing,
industrial, and/or technological nations.
Components: Class
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS
2430
**BUSADMIN 3740**  
**Consumer Behavior**  
Consumer behavior reaches for a better understanding of the consumer buying process. It begins with an examination of basic, standard steps that consumers take while making a purchasing decision and moves into consumer motives based on various consumer cohorts. The marketing student -- after having studied consumer behavior -- will have a stronger appreciation for the basis of consumer needs and will be better prepared to serve them.

**Components:** Class  
**Prereqs/Coreqs:** P: BUSADMIN 2630 or AGINDUS 2430

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**BUSADMIN 3750**  
**International Short Study**  
The International Term Short Study course abroad is designed to help students develop an understanding of the world’s economies, the globalization of technology, capital, industries, systems, goods, services, and inputs that have enhanced many of the international issues in business practices and cultures. An overview of the International business environment, including business strategies, history, and cultures will be covered. Credit numbers possible are 1-3. Students who wish to use this course to fulfill International Education requirements, must request for 3 credit hours.

**Components:** Class  
**GE:** International Education

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**BUSADMIN 3820**  
**Professional Selling**  
A study of the principles, techniques, and practices involved in selling products, services, and ideas to final consumers and organizational buyers. The selling processes used by manufacturers, distributors, and direct marketers are considered. Changes in the selling environment due to global marketing and international sales are discussed. Several sales presentations are required.

**Components:** Class  
**Prereqs/Coreqs:** P: SPEECH 1010 or SPEECH 1250

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**BUSADMIN 3830**  
**Sales Management**  
A study of the role of sales management in the total marketing structure examines the role of sales manager and how this role serves the sales department and the company. Recruiting, selection, training, motivation leadership, compensation plans, and sales forecasting are studied with focus on the administration of these functions. Evaluation and performance appraisal of the sales force are also included. The course considers the many aspects of international selling and training salespersons for global territories.

**Components:** Class  
**Prereqs/Coreqs:** P: BUSADMIN 2630 or AGINDUS 2430

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**BUSADMIN 3840**  
**Advanced Selling**  
Advanced Selling is the second selling-focused class of the professional selling emphasis. This class builds on the concepts that were presented in BSAD 3820 Professional Selling. Advanced Selling continues to develop the concept of selling as a critical part of running a successful business. In this class we will be working on what it takes to be a successful professional salesperson. This class is designed to prepare the student for an entry-level sales position.

**Components:** Class  
**Prereqs/Coreqs:** P: BUSADMIN 3820

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**BUSADMIN 3930**  
**Investments**  
A contemporary study of investments with a focus on past and present investment decision making, sources of information, stock investing, modern portfolio theory, and mutual fund creation and selection.

**Components:** Class  
**Prereqs/Coreqs:** P: BUSADMIN 3620

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**BUSADMIN 4030**  
**Financial Decision Making**  
An analysis of actual problems encountered by financial managers from major firms. This course utilizes the case study methodology and requires heavy usage of computer application skills, particularly spreadsheet skills. The goal is to identify the problem, analyze it, and finally make a well-justified recommendation to the firm.

**Components:** Class  
**Prereqs/Coreqs:** P: C- or better in BUSADMIN 3620

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**BUSADMIN 4110**  
**Management Science**  
An introduction to quantitative methods used in business. Introduction to decision theory, linear programming and its applications, network and scheduling models.

**Components:** Class  
**Cross Offering:** ECON 4110  
**Prereqs/Coreqs:** P: completion of university math requirement and ECONOMIC 2410

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**BUSADMIN 4120**  
**Operations Management**  
This course focuses on quantitative decision tools which assist the manager in the planning, organizing, and controlling of operations in industrial and service organizations. Topics covered include forecasting, queuing theory, transportation models, facility layout, scheduling, inventory control, capacity planning and materials planning.

**Components:** Class  
**Prereqs/Coreqs:** P: (BUSADMIN 2330 or AGINDUS 1500) and (ECONOMIC 2410 or MATH 1830 or BUSADMIN 2430)
BUSADMIN 4140  
International Management  
This course focuses on the management of an enterprise engaged in international business. Topics include: why international business occurs, the nature and influence of the host country environment on firms conducting international business, how international strategic alternatives for these firms are identified and evaluated, the influence of culture on managers and managerial practices, and the ethical concerns and social responsibility associated with managing international business activities.  
Components: Class  
Prereqs/Coreqs: P: BUSADMIN 1300 and BUSADMIN 2330

BUSADMIN 4150  
e-Marketing Applications  
This course will provide a deeper examination of the link between marketing strategy, e-commerce, and the various technologies that professional marketers are expected to utilize. Topics include data mining and modeling, advanced search engine marketing (SEM), social media marketing, customer relationship management systems (CRMS), and enterprise resource planning systems (ERPs). The course blends theory with rigorous application through a capstone project.  
Components: Class  
Prereqs/Coreqs: P: BUSADMIN 3240 and BUSADMIN 3630 and (ECONOMIC 2410 or Math 1830 or BUSADMIN 2340)

BUSADMIN 4160  
Purchasing Management  
This course focuses on the managerial, administrative, strategic and tactical aspects of the purchasing function. Emphasis will be placed on the pertinent issues in purchasing management for both goods and services business sectors. The course will explore the managerial perspective of the core tasks and challenges required to effectively manage the purchasing function within the context of an integrated supply chain.  
Components: Class  
Prereqs/Coreqs: P: BUSADMIN 4100 or consent of instructor

BUSADMIN 4200  
Employee Recruitment and Selection  
This course provides students with an understanding of these two critical processes in a variety of organizational settings. Throughout the course, students acquire and then demonstrate a knowledge base in each of these areas by completing a variety of projects. At the end of the course, students are prepared to conduct efficient and effective recruiting and selection programs within the Human Resource department of the organization.  
Components: Class  
Prereqs/Coreqs: P: BUSADMIN 3030

BUSADMIN 4330  
Labor-Management Relations  
Gives an overview of the process of labor relations, in which management deals with employees who are represented by a union. The history of major labor unions and primary labor laws and court cases are covered, along with the general structure and operational aspects of today’s labor organizations. Union certification, collective bargaining, and dispute resolution are discussed in detail. Students also participate in a mock labor contract negotiation project and analyze sample grievances.  
Components: Class  
Prereqs/Coreqs: P: BUSADMIN 3030 or ECONOMIC 3430

BUSADMIN 4630  
Marketing Management  
The determination of market policy; marketing administration and application of principles pertaining to management of marketing resources.  
Components: Class  
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430 and one other marketing course and junior standing

BUSADMIN 4840  
Business Policy/Strategy  
A comprehensive review and evaluation of strategic decision-making, critical thinking, reflection, and integration of the functional organizational areas of business processes through the analysis of case studies and related readings; development of external information scanning and synthesis using resources such as Internet and scholarly business publications.  
Components: Class  
Prereqs/Coreqs: P: senior standing and ACCTING 2020 (C- or better) and BUSADMIN 1300 and BUSADMIN 2630 and BUSADMIN 3030 and BUSADMIN 3620 and ECONOMIC 2130 and ECONOMIC 2230

BUSADMIN 4940  
Special Problems  
Supervised readings in specialized areas.  
Components: Independent Study  
Prereqs/Coreqs: P: junior standing; appropriate forms must be filled out by students with approval of the instructor and the department chairperson

BUSADMIN 4950  
Special Topics  
Specific contemporary or other business-related issues will be explored in depth. Topics vary.  
Components: Class

BUSADMIN 4990  
Internship  
Extends the learning process by giving students a chance to apply their knowledge and skills on the job in an actual organization. A 3-credit internship is required for the Business Administration major. May be repeated for up to eight credits. Graded on pass/fail basis.  
Components: Field Studies  
Prereqs/Coreqs: P: major or minor in business and junior standing
CHEMISTRY

CHEMISTRY 1010 1 credit
Introduction to College Life for Chemistry Majors
This course is designed to provide a student with some of the academic and social skills that are necessary to successfully complete their academic career specially in the area of Chemistry. Topics include important study skills necessary to maintain success in college-level study, student rights & responsibilities, campus diversity issues, academic policies, academic advising and registration, time management, and campus and Chemistry Departmental resources for students.
Components: Discussion, Class
GE: Entry Level requirement

CHEMISTRY 1020 2 credits
Introductory Chemistry
A one semester course for students who do not have a sufficiently strong chemistry background to succeed in Chemistry 1450. Topics will include measurements, atomic and molecular structure, periodicity, stoichiometry, states of matter, intermolecular forces, and solutions.
Components: Discussion, Class
Prereqs/Coreqs: P: math placement score of 15 or higher

CHEMISTRY 1050 5 credits
Survey of General Chemistry
A one semester survey of chemistry including organic and inorganic compounds. A course to partially satisfy the laboratory science requirement, and for students who need only one semester of chemistry for their major.
Components: Discussion, Laboratory, Class
GE: Natural Science

CHEMISTRY 1140 4 credits
General Chemistry I
First semester of a two semester sequence. Basic theory and concepts; atomic structure, periodic laws, stoichiometry, gas laws, thermochemistry, solutions, the chemical bond, oxidation-reduction.
Components: Exam, Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P: a "C" or better MATH 1530 or MATH 1630 or MATH 1730 or MATH 1830 or math proficiency level of 20 or higher

CHEMISTRY 1240 4 credits
General Chemistry II
Second semester of a two-semester sequence. Kinetics, chemical equilibrium, electrochemistry, thermodynamics, organic, descriptive and nuclear chemistry.
Components: Exam, Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P: “C-” or better in CHEMISTRY 1140 or “C-” or better in CHEMISTRY 1450

CHEMISTRY 1450 5 credits
Chemistry for Engineers
A one semester course for engineering students with a strong background in high school chemistry and mathematics. Topics include measurements, atomic theory, stoichiometry, molecular structure, thermochemistry, states of matter, intermolecular forces, solutions, kinetics, equilibrium, thermodynamics, electrochemistry, solid state, material science and organic chemistry.
Components: Exam, Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P: an “A” or B" in high school chemistry or a "C" or better in CHEMISTRY 1020 and previous completion or concurrent enrollment in MATH 2530 or higher

CHEMISTRY 2000 1–3 credits
Undergraduate Research
Training in research methods, use of scientific literature and evaluation of data. A student may register for one to three credits in a given semester.
Components: Independent Study
Prereqs/Coreqs: P: a "C-" or better in one semester of general chemistry

CHEMISTRY 2010 1 credit
Introduction to Chemistry Research
Through a series of faculty presentations and informal receptions, students will learn about research projects that are currently being conducted on our campus by UWP chemistry faculty. Students will also learn how best to approach an undergraduate research experience: strategies for seeking a faculty mentor, how to negotiate the research process itself, the role that ethics play in science, and so on. Students will also carry out critical analyses of research papers, draft proposals, and attend workshops. As second-semester freshmen, they will receive timely advice on how best to organize their activities in order to complete their degrees on schedule, with the most successful learning outcomes.
Components: Discussion, Class
Prereqs/Coreqs: P: CHEMISTRY 1010 and CHEMISTRY 1140 or consent of instructor

CHEMISTRY 2150 4 credits
Quantitative Analysis
Theories and principles of gravimetric and volumetric analysis, equilibrium and stoichiometry of solubility, neutralization, oxidation-reduction, complexometry; introduction to absorption spectrophotometry, flame photometry, ion exchange, and statistical treatment of data.
Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CHEMISTRY 1240

CHEMISTRY 2730 4 credits
Inorganic Chemistry
An introductory course with an emphasis on coordination chemistry, solid state chemistry, descriptive chemistry of the common representative and transition elements, metallurgy.
Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CHEMISTRY 1240
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Components</th>
<th>Prereqs/Coreqs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 3110</td>
<td>1</td>
<td>Environmental Chemistry Lab</td>
<td>Laboratory complementary to CHEM 3130 in which students gain experience in the laboratory techniques and methods associated with structure, composition, and chemical reactions of the three spheres of the environment.</td>
<td>Components: Laboratory</td>
<td>Prereqs/Coreqs: P: CHEMSTRY 3130 or concurrent enrollment</td>
</tr>
<tr>
<td>CHEMSTRY 3130</td>
<td>3</td>
<td>Environmental Chemistry</td>
<td>A study of structure, composition, and chemical reactions of the three major spheres of the environment: atmosphere, hydrosphere, and lithosphere. Additional inquiries into the human impact on the environment and environmental toxicology are also addressed.</td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 1240 or CHEMSTRY 1450</td>
</tr>
<tr>
<td>CHEMSTRY 3270</td>
<td>2</td>
<td>Forensic Chemistry</td>
<td>An in-depth examination of forensic applications of chemical analysis: presumptive and confirmatory drug identification, microscopic techniques in trace evidence analysis, quality assurance, quality control (QA-QC) issues for the crime lab analyst, the toxicology of illicit compounds, and modern methods of DNA analysis related to criminalistics.</td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 2150 or CHEMSTRY 3540</td>
</tr>
<tr>
<td>CHEMSTRY 3510</td>
<td>1</td>
<td>Organic Chemistry Laboratory</td>
<td>Laboratory complementary to CHEMSTRY 3540 which involves an introduction to basic organic laboratory techniques including gas chromatography and infrared spectroscopy.</td>
<td>Components: Laboratory</td>
<td>Prereqs/Coreqs: P: CHEMSTRY 3540 or concurrent enrollment</td>
</tr>
<tr>
<td>CHEMSTRY 3540</td>
<td>4</td>
<td>Organic Chemistry Lecture</td>
<td>An introduction to organic chemistry including a study of aliphatic and aromatic compounds and the functional groups, fundamentals of organic structural theory, chemical bonding, nomenclature, stereochemistry, infrared spectroscopy, structure/property relationships and analysis, as well as proteins, carbohydrates, and other natural compounds.</td>
<td>Components: Exam, Laboratory, Class</td>
<td>Prereqs/Coreqs: P: “C-” or better in CHEMSTRY 1240 or “B-” or better in CHEMSTRY 1450</td>
</tr>
<tr>
<td>CHEMSTRY 3610</td>
<td>1</td>
<td>Organic Chemistry Laboratory</td>
<td>Continuation of CHEMSTRY 3510. Complementary to CHEMSTRY 3630 involving preparations of greater difficulty and an introduction to organic qualitative analysis.</td>
<td>Components: Laboratory</td>
<td>Prereqs/Coreqs: P: CHEMSTRY 3510 and C: CHEMSTRY 3630</td>
</tr>
<tr>
<td>CHEMSTRY 3630</td>
<td>3</td>
<td>Organic Chemistry Lecture</td>
<td>A second semester of organic chemistry providing an in-depth study of the preparation, reactions, and analysis of the functional groups with an emphasis on mechanisms, structure/property relationships, multistep synthesis, nuclear and mass spectrometry, and pericyclic reactions.</td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 3540</td>
</tr>
<tr>
<td>CHEMSTRY 3810</td>
<td>1</td>
<td>Chemical Synthesis and Characterization</td>
<td>For students desiring additional laboratory experience. In cooperation with the instructor, students will select experiments which require insights into the application and execution of more sophisticated techniques.</td>
<td>Components: Laboratory</td>
<td>Prereqs/Coreqs: P: CHEMSTRY 3610</td>
</tr>
<tr>
<td>CHEMSTRY 3900</td>
<td>1–3</td>
<td>Directed Studies</td>
<td>Supervised individual study of a topic selected by the student and approved by the staff. A student may register for one to three credits in a given semester and may accumulate a total of four credits.</td>
<td>Components: Independent Study</td>
<td>Prereqs/Coreqs: P: 12 credits of chemistry</td>
</tr>
<tr>
<td>CHEMSTRY 4000</td>
<td>1–3</td>
<td>Undergraduate Research</td>
<td>Training in research methods, use of scientific literature and evaluation of data; results presented in a written report. A student may register for one to three credits in a given semester and may accumulate a total of four credits.</td>
<td>Components: Independent Study</td>
<td>Prereqs/Coreqs: P: 18 credits in chemistry and department consent</td>
</tr>
<tr>
<td>CHEMSTRY 4060</td>
<td>1</td>
<td>Chemistry Seminar</td>
<td>This course will develop student’s abilities to present scientific findings in both seminar and poster format.</td>
<td>Components: Seminar</td>
<td>Prereqs/Coreqs: P: satisfied speech general education requirement and a chemistry major</td>
</tr>
<tr>
<td>CHEMSTRY 4110</td>
<td>1</td>
<td>Physical Chemistry Lab I</td>
<td>Experimental studies applying theoretical principles to practical problems and processes involving chemical and physical phenomena. Fundamentals of chemical measurement using chemical and physical sensors.</td>
<td>Components: Laboratory</td>
<td>Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 2150; C: “C-” or better in CHEMSTRY 4130</td>
</tr>
</tbody>
</table>
CHEMISTRY 4130  
Physical Chemistry  
Atomic structure, thermodynamics and quantum mechanics, molecular structure, spectroscopy, intermolecular interactions, macromolecules, structure of liquids and solids.  
Components: Class  
Prereqs/Coreqs: P: a "C" or better in all courses - (PHYSICS 2640 and PHYSICS 2610 or PHYSICS 1240 and PHYSICS 1210 or PHYSICS 2340) and MATH 2640

CHEMISTRY 4210  
Physical Chemistry Lab II  
Advanced experimental studies applying theoretical principles to chemical and physical phenomena.  
Components: Laboratory  
Prereqs/Coreqs: P: a "C" or better in CHEMISTRY 4110; P or C: CHEMISTRY 4230

CHEMISTRY 4230  
Physical Chemistry  
Statistical and quantum mechanics, transport processes, thermodynamics, spectroscopy, solutions, phase transitions, and kinetics.  
Components: Class  
Prereqs/Coreqs: P: a "C" or better in all courses - CHEMISTRY 4130 and (PHYSICS 2340 or PHYSICS 2640 and PHYSICS 2610) and MATH 2840

CHEMISTRY 4240  
Instrumental Analysis  
Theory and laboratory experience in instrumental methods of analysis; common electrochemical and spectrochemical methods, chromatographic methods, electronics and other selected topics.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: a "C" or better in both CHEMISTRY 2150 and CHEMISTRY 4130

CHEMISTRY 4610  
General Biochemistry Lab  
Chemistry of biological compounds and biochemical techniques.  
Components: Laboratory  
Prereqs/Coreqs: C: CHEMISTRY 4630 or concurrent enrollment

CHEMISTRY 4630  
General Biochemistry  
Introduction to the chemistry of proteins, carbohydrates, lipids, and nucleic acids in biological systems including the basics of metabolism and enzyme kinetics.  
Components: Class  
Prereqs/Coreqs: P: a "C" or better in CHEMISTRY 3540

CHEMISTRY 4660  
Cooperative Field Experience  
Enhancement of the educational experience through placement of a student with a cooperative agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and the department.  
Components: Field Studies

CHEMISTRY 4680  
Criminalistics Emphasis Internship  
This 8-credit course involves working 360 hours with an accredited crime laboratory. The course is designed for the student to integrate the fundamental theory from the first three years of the Criminalistics Emphasis curriculum with the opportunity to work as an intern in a fully functioning crime laboratory as a bench scientist. Students will likely conduct research and development work during their time in the laboratory and are required to complete weekly reports, assignments, and presentations related to the experience.  
Components: Field Studies  
Prereqs/Coreqs: P: a "C" or better in CHEMISTRY 2150 and CHEMISTRY 3630

CHEMISTRY 4730  
Advanced Topics in Inorganic Chemistry  
A survey of the theories of atomic and molecular structure and chemical bonding; advanced descriptive studies of the common elements.  
Components: Class  
Prereqs/Coreqs: P: a "C" or better in CHEMISTRY 2730 and CHEMISTRY 4130

CHEMISTRY 4810  
Advanced Topics in Organic Chemistry  
Selected topics from among recent advances in mechanisms, structure-reactivity correlations, stereochemistry and conformational analysis, resonance and molecular orbital theory, spectra, natural products, heterocyclic systems and synthesis.  
Components: Class  
Prereqs/Coreqs: P: a "C" or better in CHEMISTRY 3630 and CHEMISTRY 43610 and C: CHEMISTRY 4230

CHEMISTRY 4830  
Biochemistry Topics  
An in-depth study of metabolism and regulation and enzyme mechanisms as well as cell communication, transport mechanisms, and immunology, gene expression, and regulation.  
Components: Class  
Prereqs/Coreqs: P: a "C" or better in CHEMISTRY 4630

CHEMISTRY 4910  
Advanced Biochemistry Laboratory  
Advanced experimental studies applying theoretical principles discussed in CHEMISTRY 4830 including protein binding, protein characterization, gene expression and gene regulation.  
Components: Laboratory

CHINESE

CHINESE 1540  
Elementary Chinese  
An introduction to Mandarin Chinese that includes the study of characters, tones, sentence structure, and the Pinyin system. Students will develop basic conversational, listening, and reading skills appropriate to an elementary language class in Mandarin. Students will also explore the connection between the culture of China and its 5000 years of history.  
Components: Laboratory, Class  
GE: Foreign Language
Elements of Surveying
General use and care of surveying instruments; elevation determination, horizontal positioning; coordinate systems, topographic and construction surveys, introduction to boundary surveys, horizontal and vertical curves.

Components: Laboratory, Class
Prereqs/Coreqs: P: GENENG 1320 or INDUSTDY 1230; C: MATH 2530 or 2450

Civil Engineering

CIVILENG 2000 3 credits
Introduction to Infrastructure
An introduction to the civil infrastructure; social, political, historical, sustainability, and planning implications of infrastructure; introduction to each of the subdiscipline areas of civil and environmental engineering (transportation, environmental, construction, structural, and geotechnical); professional skills (e.g. report writing, oral communication, teamwork).

Components: Class
Prereqs/Coreqs: C: CIVILENG 2220

CIVILENG 2010 3 credits
Infrastructure and Society
This course will help students understand how infrastructure works, but more importantly, how the infrastructure affects nearly all aspects of human society. Students will synthesize concepts from many areas of social science using infrastructure as a focal point. Specifically, at the end of this course, students will be able to: describe the functions and purposes of the civil infrastructure (public works); explain the interactions between the built environment and the natural environment; describe the social, political, economic, ethical, and environmental considerations involved in infrastructure analysis and design; and create a social impact assessment report for local infrastructure.

Components: Class
Prereqs/Coreqs: P: MATH 15; C: ENGLISH 1230

CIVILENG 2220 2 credits
Civil and Environmental Engineering Computer Applications
Engineering problem solving using spreadsheets, MathCAD, and AutoCAD Civil 3D. Spreadsheet and MathCAD applications include graphing, curve fitting, interpolation, modeling, solving linear and non-linear equations, matrix methods, simultaneous equations, etc. Civil 3D applications include creation of topographic maps and determination of earthwork volumes.

Components: Class
Prereqs/Coreqs: P: MATH 2640; C: CIVILENG 2630

CIVILENG 2630 3 credits

CIVILENG 3020 3 credits
Construction Engineering
Contracts, specifications, legal aspects and associated liabilities of construction documents, site management and planning, introduction to project scheduling and cost estimating, CPM, earthwork calculations and cross sections.

Components: Laboratory, Class
Prereqs/Coreqs: P: (CIVILENG 2220 or COMPUTER 1830) and C: CIVILENG 2630

CIVILENG 3030 3 credits
Construction Materials
Fundamentals of engineering materials; analysis of aggregate and blending techniques; influences of aggregate mineralogy; analytical instrumentation and testing; introduction to portland cement chemistry; theory and design of portland cement concrete mixtures; bituminous materials and mixes; influences of mix properties on pavement durability. Construction material design projects.

Components: Laboratory, Class
Prereqs/Coreqs: P: CIVILENG 2220 and GENENG 2340

CIVILENG 3110 3 credits
Introduction to Structural Engineering
Analysis of statically determinate structures including shear and moment diagrams, influence lines, and deflection calculations using virtual work. Design loads for buildings. Introduction to design of steel beams, columns, and tension members. Introduction to design of reinforced concrete beams.

Components: Class
Prereqs/Coreqs: P: GENENG 2340 and CIVILENG 2220 and C: CIVILENG 3030

CIVILENG 3160 3 credits
Intermediate Structural Engineering
Analysis of statically indeterminate structures using the force method, slope deflection equations, and moment distribution. Introduction to design of wood members, masonry walls, concrete columns, and steel connections. Introduction to sustainable buildings and system evaluation.

Components: Class
Prereqs/Coreqs: P: CIVILENG 3110

CIVILENG 3300 4 credits
Fluid Mechanics
Fluid properties; statics; ideal and real fluid flow, energy, continuity and momentum equations, laminar and turbulent flow in closed conduits, free surface flow.

Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 2220 and C: MATH 2840

CIVILENG 3340 4 credits
Environmental Engineering
Water, air and soil chemistry; toxicity and risk; watershed analysis; mass balance analysis; groundwater hydrology; water and wastewater treatment; surface water quality; solid and hazardous waste management; air pollution control.

Components: Laboratory, Class
Prereqs/Coreqs: P: CHEMISTRY 1450 and (a “C-” or better in CIVILENG 2220 or COMPUTER 1830)
CIVILENG 3530  
Transportation Engineering
Introductory overview of transportation systems with emphasis on the highway mode of transportation. Topics include fundamentals of transportation economics, land-use and transportation interaction, elements of transportation planning, traffic operations, concepts of highway locations and geometric design, and introduction to flexible and rigid pavement systems.
Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 2220 and CIVILENG 2630

CIVILENG 3740  
Geotechnical Engineering I
Introduction to Geotechnical Engineering, a discipline that includes the study of Soil Mechanics and Foundation Engineering. Soil Mechanics topics of study include: exploration and classification of soils; index properties of soils; soil compaction; effective stress; stresses in soils/shear strength; flow of water in soils; compressibility of soils; lateral earth pressures; and geosynthetics. Foundation Engineering topics of study, which are the areas of expertise in the professional practice of Geotechnical Engineering, include introductions to: foundations and bearing capacity; stability of natural and constructed slopes; retaining wall; and case histories in Geotechnical Engineering. The laboratory component will expose the students to laboratory testing of soils performed as part of the professional practice of Geotechnical Engineering.
Components: Class
Prereqs/Coreqs: P: GENENG 2340 and CIVILENG 2220 and CIVILENG 2000

CIVILENG 3950  
Civil and Environmental Engineering Cooperative Education
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. During co-op the student is expected to be away from his/her studies at UW-Platteville and work for an industry for a semester and summer. Credits do not fulfill graduation requirements. Minimum cumulative GPA of 2.50 is recommended for participation.
Components: Field Studies
Prereqs/Coreqs: P: junior standing

CIVILENG 3970  
Civil and Environmental Engineering Internship
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. NOTE: This program is separate and distinct from the cooperative education program and is principally designed to cover the summer work experience. Internship is designed to provide experiential learning experience to the student during the summer period. Credits do not fulfill graduation requirements.
Components: Field Studies

CIVILENG 4020  
Construction Estimates and Costs
Methods of estimating, extending and pricing; use of blue prints, specifications and commercial cost sheets to bid a complete project; scheduling and pricing of labor.
Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3020 or INDUSTDY 2540

CIVILENG 4030  
Construction Equipment
Excavation methods and equipment; equipments costs; engineering fundamentals; analysis and design of equipment systems; drilling and blasting; material production and safety as they pertain to both heavy construction and surface mining methods.
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3020 or INDUSTDY 2540

CIVILENG 4040  
Construction and Professional Management
Construction management decision making; engineering economic comparisons, scheduling, bidding techniques, introduction to labor agreements, safety and QA/QC.
Components: Class
Prereqs/Coreqs: P: CIVILENG 3020 or INDUSTDY 2540; C: MATH 4030

CIVILENG 4100  
Computer Analysis of Structures
Finite element theory and application with beam, and truss elements. Introduction to engineering programming with Visual Basic. Introduction to structural dynamics and seismic analysis; optimization, reliability and eigen analysis for structural problems.
Components: Class
Prereqs/Coreqs: C: CIVILENG 3160

CIVILENG 4150  
Reinforced Concrete Structures
Prereqs/Coreqs: C: CIVILENG 3160

CIVILENG 4160  
Foundation Design
Bearing capacities and lateral earth pressures; design and computer application of shallow foundations, piles and caissons, retaining structures.
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3740; C: CIVILENG 3160

CIVILENG 4230  
Steel Design
Behavior and properties of structural steel, proportioning of members and connections; AISC-LRFD specifications. Integrated design project.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: C: CIVILENG 3160
CIVILENG 4250  3 credits
Wood Structures
Anisotropic properties of wood; wood connectors; sawn and glulam beams, columns and beam columns; plywood; introduction to code-based seismic design; diaphragms and shear-walls; integrated design project.
Components: Class
Prereqs/Coreqs: C: CIVILENG 3160

CIVILENG 4300  3 credits
Hydrology
Hydrologic cycle and data collection; rainfall-runoff relationships, and models; statistical analysis of streamflow and precipitation measurements; runoff estimation using Rational, TR55, and USGS Regression methods and computer models; hydrograph analysis; detention pond and outlet structure design; culvert design and analysis; water surface profile analysis using HEC-RAS.
Components: Laboratory, Class
Prereqs/Coreqs: P: CIVILENG 3300 and CIVILENG 3340

CIVILENG 4310  3 credits
Groundwater Hydrology
Components: Laboratory, Class
Prereqs/Coreqs: P: (CIVILENG 3300 or AGSCI 4350 or AGINDUS 3950) and CIVILENG 3340

CIVILENG 4330  3 credits
Air and Waste Management
Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3340

CIVILENG 4400  3 credits
Municipal Hydraulics
Population estimates, municipal water and wastewater quantities and requirements; design and analysis of municipal water distribution systems, storage reservoirs, and pumping stations; design of stormwater and wastewater collection systems. Municipal open channel flow applications.
Components: Class
Prereqs/Coreqs: P: CIVILENG 3300 and CIVILENG 3340

CIVILENG 4410  3 credits
Wastewater Treatment and Management
Determination of sewage flowrates; wastewater characteristics; design and operation of resource recovery (wastewater treatment) facilities; advanced wastewater treatment and effluent disposal; nutrient removal; emerging contaminants; biosolids processing and management; anaerobic digestion for bioenergy generation.
Components: Class
Prereqs/Coreqs: P: CIVILENG 3340; C: CIVILENG 3300

CIVILENG 4420  3 credits
Water Supply and Treatment
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3340

CIVILENG 4500  3 credits
Highway Engineering
Comprehensive design of contemporary highway projects. Emphasis on improving utilization of existing facilities and creating efficient new facilities through transportation system management techniques. Consideration of geometric and intersection design and standards; earthwork computations; design of parking facilities; design of highway surface and subsurface drainage systems; environmental, mobility and community impacts as measures of effectiveness.
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3530

CIVILENG 4520  3 credits
Pavement Design and Analysis
Design methodologies for highway pavement structures; theoretical and applied aspects of flexible and rigid pavement design; soil conditions, base, subbase and pavement materials; frost action; economic considerations.
Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3030, CIVILENG 3530, and CIVILENG 3740

CIVILENG 4550  3 credits
Traffic Engineering
Elements of traffic engineering including road user, vehicle and roadway system; traffic flow theory; traffic studies and data collection; traffic control devices; principles of intersection signalization; capacity and level of service analysis for freeways, rural highways and intersections using state-of-the-art software for traffic operations and management.
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3530; C: MATH 4030
CIVILENG 4560 2 credits
Pavement Maintenance and Rehab
Evaluation of pavement distresses and the maintenance techniques used for their repair. Survey and evaluation methods, maintenance equipment and procedures, rehabilitation techniques, and identification of the most cost-effective option. Maintenance management software will be used to evaluate options. Guest speakers will be used for selected topics.
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3530 and CIVILENG 3030

CIVILENG 4630 3 credits
Geographic Information Systems
Basic GIS concepts in cartography and digital mapping, geodetic datums and control, map projections and coordinates, databases, topology, spatial queries/analysis, digital orthophotography, digital elevation models, and applications. Use of state-of-the-art software and World Wide Web components for GIS.
Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 2220 and CIVILENG 2630

CIVILENG 4640 3 credits
Sie Design and Stormwater Management
Comparison of conventional to low-impact land development practices in terms of technical (e.g. stormwater quantity and quality, erosion control, transportation), economic, and social aspects. Skills gained include CIVIL 3D, WINSLAMM, and oral and written communication.
Components: Class
Prereqs/Coreqs: C: CIVILENG 4300

CIVILENG 4730 3 credits
Geotechnical Engineering II
Review elements of soil mechanics; water in soil; slope stability; lateral earth pressures; sheet pile walls; geotextile applications; computer applications.
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3730

CIVILENG 4930 3 credits
Civil and Environmental Engineering Design Project
Open-ended comprehensive design in student’s area of specialization. Discussion and experience in project management, work as a team, written reports and presentations, computer aided design and ethics.
Components: Laboratory, Class
Prereqs/Coreqs: P: CIVILENG 3020 and CIVILENG 3030 and CIVILENG 3110 and CIVILENG 3160 and CIVILENG 3300 and CIVILENG 3340 and CIVILENG 3530 and CIVILENG 3740

CIVILENG 4980 1–4 credits
Current Topics in Engineering
In-depth study of a current topic of interest to the engineering profession. The topic to be covered will be identified in the course title.
Components: Class

CIVILENG 4990 1–3 credits
Independent Study
Advanced study in area of specialization selected by student and approved by faculty member.
Components: Independent Study

COMPUTER SCIENCE

COMPUTER 1130 3 credits
Introduction to Programming
An introduction to programming for students with no previous computer programming experience. Covers control structures, procedures, programming environments, and problem solving.
Components: Laboratory, Class

COMPUTER 1430 3 credits
Programming in C++
A technical course in computing, algorithms, data representation, and procedural programming. Modularity and abstraction stressed in algorithm development. Style and documentation stressed in program development. Weekly lab programs engrain the syntax and semantics of C++. A few larger, out-of-class programs tie the concepts together.
Components: Laboratory, Class
Prereqs/Coreqs: P: previous programming experience, such as that provided by COMPUTER 1130 is recommended

COMPUTER 1830 3 credits
Microcomputer Applications
A course recommended for all non-computer science majors that need to know how to use the microcomputer. The major emphasis will be on using microcomputers with the most popular kinds of computer software used in business and education today including word processing, spreadsheets and database management. (Not open to computer science majors.)
Components: Laboratory, Class

COMPUTER 2230 3 credits
Programming in COBOL
To develop an understanding of, and provide practice in the use of proper strategies and techniques for business program design and development. To develop ability to apply the COBOL language to implement problem solutions. To gain the background for further study of software design and computer programming in a business environment. Emphasis on structured programming and program style.
Components: Class
Prereqs/Coreqs: P: COMPUTER 1430

COMPUTER 2340 3 credits
Programming in VB.NET
An introduction to event-driven, object-oriented programming techniques using Visual Basic in the .NET Framework. Students will design, code, and debug Graphical User Interface (GUI) programs applicable to business applications.
Components: Class
Prereqs/Coreqs: P: COMPUTER 1430
COMPUTER 2430
Object-Oriented Programming and Data Structures I
An introduction to object-oriented programming. Emphasis on
building and testing classes using software engineering
techniques. Includes study of a standard class library and
use of inheritance and polymorphism for building subclasses
and extensibility. Coverage of the stack and queue classical
data structures. Discussion of searching, sorting, and hashing
techniques. Introduction to linked lists.
Components: Laboratory, Class
Prereqs/Coreqs: P: COMPUTER 1430 with a C- or better

COMPUTER 2630
Object-Oriented Programming and Data Structures II
Continuation of the object-oriented programming and data
structure topics from COMPUTER 2430. Coverage of
pointers, templates, linked lists, trees, recursion, graphs,
and algorithm analysis. Use of software engineering
techniques such as inspections, test plans, and configuration
management within a group-based project environment.
Components: Laboratory, Class
Prereqs/Coreqs: P: COMPUTER 2430

COMPUTER 2990
1–3 credits
Computer Science Special Topics
The subject matter and instructor for each instance of this
class will be listed in the class schedule.
Students should check with the instructor for details.
Components: Class

COMPUTER 3030
3 credits
Artificial Intelligence
A study of knowledge representation, search techniques,
expert systems, predicate calculus, and natural
languages. Discussion of the successes and limitations of
past and current AI programs. Programming
assignments in LISP and Prolog illustrate formal topics.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2630 and MATH 2730

COMPUTER 3130
3 credits
Systems Analysis and Design
Provide an understanding of the duties of the systems
analyst and the specific methods and techniques for system
development (preliminary survey through system design)
with an introduction to utilizing CASE software throughout the
entire process.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2230

COMPUTER 3230
3 credits
Computer Architecture/Operating Systems
This course combines the strengths of two areas: Assembler
Language Programming and Operating Systems. The major
areas of Assembler such as Architecture, Data Types, Logic
and Control and Interrupts will be covered. The major areas
of Operating Systems including Processes, Mutual Exclusion,
Critical Sections, Parallel Processing, Real and Virtual
Storage, Job Scheduling and UNIX, VMS and NT will be
emphasized.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2430

COMPUTER 3340
3 credits
Windows Programming
Continuation of Windows programming techniques.
Discussion of the Component Object Model (COM),
Dynamic Link Library (DLL), and the Windows Application
Programming Interface (API). Study also includes the
Windows common controls, some Internet controls, and
Dynamic HTML (DHTML).
Components: Class
Prereqs/Coreqs: P: COMPUTER 2630 or (COMPUTER
2340 AND COMPUTER 2430)

COMPUTER 3520
3 credits
Programming Language Structures
A study of programming language topics which include
data objects, data types, storage management, syntax,
BNF descriptions, semantics, lexical analysis and parsing.
Examples taken from traditional languages as well as more
modern languages.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2630

COMPUTER 3530
3 credits
Systems Development and Implementation
Strategies and techniques of analysis and design for
producing logical methodologies for dealing with
complexity in the development and implementation of
information systems. Use of software tools, file access
methods and operating system facilities.
Components: Class
Prereqs/Coreqs: P: COMPUTER 3130

COMPUTER 3630
3 credits
Database Design and Implementation
This course will explore fundamental concepts necessary for
the design, use, and implementation of database systems.
Study of database modeling and design, languages and
facilities provided by the database management systems,
and techniques for implementing database systems will be
examined. Major database models will be discussed with
primary focus on the relational database model and query
languages.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2430 and MATH 1630
or MATH 2730

COMPUTER 3830
3 credits
Data Communications and Computer Networks
An introduction to data communications and computer
networks. Study of the basic principles with a focus on the
layers, protocols, and security used in the Internet. Socket-
based and other programming projects.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2430
COMPUTER 3840 3 credits
Introduction to Computer Security
An introduction to the principles of computer security. Topics include computer and system security, authentication, access control, malicious software, and software security. The course also examines how system designs, network protocols, and software engineering practices can result in vulnerabilities. The course explores how to design and implement systems to mitigate vulnerabilities. In addition, the course explores how to detect and mitigate vulnerabilities in existing systems.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2430

COMPUTER 3870 3 credits
Web Protocols, Technologies and Applications
This course will introduce the students to protocols and technologies in Web Applications and Web Services. The Client/Server concept and some advanced database concepts will also be covered. The emphasis of the course will be using tools such as ASP.NET for rapid development of Web Applications and Web Services.
Components: Class
Prereqs/Coreqs: P: COMPUTER 3340; C: 3630

COMPUTER 3920 3 credits
Computer Graphics
An introduction to computer graphics including transformations; modeling; viewing and projection; color, lighting and shading; texture mapping; interaction; and animation. Use of a pipeline-based graphics library such as OpenGL. Several programming assignments, including some games-based projects.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2630 and MATH 2640

COMPUTER 4110 1 credit
Seminar
The course consists of lectures/discussions presented by both computer science faculty and students enrolled in the class.
Components: Seminar
Prereqs/Coreqs: P: Computer Science major/minor and junior/senior standing

COMPUTER 4230 3 credits
Applications in Information Systems
Applications of computer programming and system development concepts, principles and practices to a comprehensive system development project. A team approach is used to design and develop a realistic system of moderate complexity. Also includes coverage of advanced features of the COBOL language.
Components: Class
Prereqs/Coreqs: P: COMPUTER 3530

COMPUTER 4830 1–3 credits
Special Topics in Computer Science
The subject matter and instructor for each instance of this course will be listed in the class schedule. Students should check with the instructor for details.
Components: Laboratory, Class
Prereqs/Coreqs: P: junior or senior standing

COMPUTER 4930 1–3 credits
Independent Study in Computer Science
For the student who wishes to delve more deeply into a specific area of study topics not available through the scheduled classes.
Components: Independent Study

COMPUTER 4990 1–6 credits
Internship
Enhancement of the educational experience through specific work and observation with computers in a business, industry or institution. Prerequisites: upper-class standing.
Components: Field Studies
Prereqs/Coreqs: P: junior or senior standing; 18 or more hours of computer science credit

COUNSELING PSYCHOLOGY

COUNPSY 4250 3 credits
Group Counseling
This course presents the theory and applied models of structured, developmental group counseling. The emphasis is placed on facilitating a gradual increase in problem-solving skills leading to wellness.
Components: Laboratory, Class

COUNPSY 4600 1–3 credits
Measurement for Counselors and Educators
A study of assessment devices and procedures in the areas of interest, attitudes, intelligence and personality; plus discussion of the theoretical bases upon which such procedures and devices are founded.
Components: Class

COUNPSY 4630 3 credits
Introduction to Professional Counseling
The role of guidance in the educational process; historical, psychological, sociological and philosophical foundations of the guidance movement.
Components: Class

COUNPSY 4990 1–3 credits
Individual Study in Counselor Education
An opportunity for students to engage in deeper study of topics previously considered, to broaden themselves by pursuing areas not offered within other courses, or to engage in projects and experiences otherwise not available.
Components: Independent Study
Prereqs/Coreqs: P: TEACHING 2130 or a comparable developmental psychology course (PSYCHLGY 3130 or PSYCHLGY 3230) and junior standing

CRIMINAL JUSTICE

CRIMLJUS 1130 3 credits
Introduction to Criminal Justice
A survey of the administration of Criminal justice, including the structural components of the criminal justice system and the stages of the criminal process from the detection of crime and arrest through prosecution, adjudication, sentencing and correctional intervention; emphasis upon analysis of decisions and practices within the context of the entire criminal justice system.
Components: Class
GE: Social Sciences
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<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Course Title</th>
<th>Description</th>
<th>Components</th>
<th>Prereqs/Coreqs</th>
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</thead>
<tbody>
<tr>
<td>CRIMLJUS 2130</td>
<td>3</td>
<td>CRIMLJUS 2130: The Police Function</td>
<td>The roles and functions of police in a democratic society, including their responsibilities for peacekeeping, law enforcement and service; the police as part of the criminal justice system and as agents of municipal governments; models and styles of police behavior.</td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: CRIMLJUS 1130 with a “C-” or better</td>
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<tr>
<td>CRIMLJUS 2230</td>
<td>3</td>
<td>CRIMLJUS 2230: Correctional Philosophy</td>
<td>The theories, philosophies and practices of corrections; sentencing structures and their relationship to correctional objectives; the modes of correctional intervention.</td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: CRIMLJUS 1130 with a “C-” or better</td>
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<tr>
<td>CRIMLJUS 2340</td>
<td>3</td>
<td>CRIMLJUS 2340: U.S. Courts and the Criminal Justice System</td>
<td>A detailed study of the adversarial system in the United States examining the history, tradition and philosophy underlying the system of justice as it is played out in the criminal courts, as well as administrative and civil courts.</td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: CRIMLJUS 1130 with a “C-” or better</td>
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<tr>
<td>CRIMLJUS 2630</td>
<td>3</td>
<td>CRIMLJUS 2630: Private Security Operations</td>
<td>A survey of the physical, personnel and informational aspects of the security field; concept of physical information and personnel security systems integrated with management systems; controls in regard to private, public and government owned complexes.</td>
<td>Components: Class</td>
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<tr>
<td>CRIMLJUS 2830</td>
<td>3</td>
<td>CRIMLJUS 2830: Ethnicity, Race and Crime</td>
<td>A study of the correlation between ethnicity, race, crime and criminality in the United States. This course explores the interrelatedness of ethnicity, race, criminal law, and the sanctioning of criminal behavior in the United States.</td>
<td>Components: Class</td>
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<tr>
<td>CRIMLJUS 2930</td>
<td>3</td>
<td>CRIMLJUS 2930: Interviewing</td>
<td>Examination of the principles of effective interviewing as applied to investigative reporting, research, persuasion, counseling, employment, and the investigation of crime. The latter part of this course will pay particular attention to the theory and practice of interviewing and interrogation as applied to gaining information from complainants, witnesses, victims, informants, and suspects.</td>
<td>Components: Class</td>
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<tr>
<td>CRIMLJUS 3130</td>
<td>3</td>
<td>CRIMLJUS 3130: Criminal Investigation</td>
<td>An introduction to the principles and procedures of criminal investigation, including the identification of physical and testimonial evidence, creation of hypotheses for the development of leads and documentation of findings.</td>
<td>Components: Discussion, Class</td>
<td>Prereqs/Coreqs: P: CRIMLJUS 2130 with a “C-” or better and junior standing or junior standing and a Forensic Investigation Major</td>
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<tr>
<td>CRIMLJUS 3230</td>
<td>3</td>
<td>CRIMLJUS 3230: Comparative Criminal Justice Systems</td>
<td>Cultural bases of laws, development of laws, conceptions of justice and patterns of crime; comparison of American justice systems with other Western and Asian justice systems.</td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: CRIMLJUS 2130 and CRIMLJUS 2230 with a “C-” or better in each and junior standing</td>
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<tr>
<td>CRIMLJUS 3330</td>
<td>3</td>
<td>CRIMLJUS 3330: Police Administration</td>
<td>Principles of police administration and organization; detailed analysis of police administration such as budgeting, personnel management, implementation of programs toward fulfillment of objectives and decision making.</td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: CRIMLJUS 2130 with a “C-” or better and junior standing</td>
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<tr>
<td>CRIMLJUS 3430</td>
<td>3</td>
<td>CRIMLJUS 3430: Patterns of Criminal and Delinquent Behavior</td>
<td>The legal and behavioral classification of crimes and criminals based on analysis of the criminal career of the offender, group support of the behavior, society’s reaction and the response of the legal system; analysis of crimes as systems of behavior: property, violent, professional organized, victimless, white-collar, conventional and political crime.</td>
<td>Components: Class</td>
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<tr>
<td>CRIMLJUS 3530</td>
<td>3</td>
<td>CRIMLJUS 3530: Correctional Institutions</td>
<td>History, development and functions of correctional institutions including prisons and jails; their custodial and correctional programs; the impact of incarceration upon inmates; the interactional structure of the prison environment; improving conditions and correctional programs.</td>
<td>Components: Class</td>
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<td>CRIMLJUS 3630</td>
<td>3</td>
<td>CRIMLJUS 3630: Juvenile Justice</td>
<td>Conceptions of juvenile delinquency; the juvenile offender in the juvenile justice system; the philosophy, structure and function of juvenile courts; legal rights of accused juveniles, correctional theories, and programs in juvenile institutions; methods and models of rehabilitating juvenile offenders and prevention of juvenile delinquency.</td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: CRIMLJUS 2230 with a “C-” or better and junior standing</td>
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<td>Course Code</td>
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<td>CRIMLJUS 3730</td>
<td>3</td>
<td>Women and the Law&lt;br&gt;A study of women in their legal roles as wives and mothers, workers and students, criminals and victims of crime. The course examines how the law affects women's personal choices regarding marriage, having children, and aiming for high-level achievements in education and in work. Also examines ways in which law affects women in poverty and in old age. <strong>Components:</strong> Class&lt;br&gt;<strong>Cross Offering:</strong> WOMGENDR 3730&lt;br&gt;<strong>GE:</strong> Gender Studies, Social Sciences&lt;br&gt;<strong>Prereqs/Coreqs:</strong> P: CRIMLJUS 1130 or one course in women's studies and junior standing</td>
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<td>CRIMLJUS 3830</td>
<td>3</td>
<td>Crime Prevention&lt;br&gt;An investigation of the prevention of crime utilizing changes in both the physical and social environment of the community. <strong>Components:</strong> Class&lt;br&gt;<strong>Prereqs/Coreqs:</strong> P: CRIMLJUS 1130 with a “C-” or better and junior standing</td>
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<td>CRIMLJUS 3900</td>
<td>3</td>
<td>Research Methods in Criminal Justice&lt;br&gt;An introduction to research methods in criminal justice and criminology, with applications to both pure and applied research. The course provides a basic conceptual framework for understanding and interpreting criminal justice research as well as designing, conducting, and evaluating research projects. <strong>Components:</strong> Class&lt;br&gt;<strong>Prereqs/Coreqs:</strong> P: CRIMLJUS 2130 and CRIMLJUS 2230 with a “C-” or better in each, MATH 1830 and junior standing or a Forensic Investigation major, MATH 1830 and junior standing</td>
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<td>CRIMLJUS 3930</td>
<td>3</td>
<td>Law of Corrections&lt;br&gt;The law pertaining to the effects and consequences of conviction, sentencing and prisoner rights; the legal process in terms of post-trial motions and appeals of conviction. <strong>Components:</strong> Class&lt;br&gt;<strong>Prereqs/Coreqs:</strong> P: CRIMLJUS 2230 with a “C-” or better and junior standing</td>
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<td>CRIMLJUS 4030</td>
<td>3</td>
<td>Criminal Law&lt;br&gt;A study of the principles, doctrines and selected rules of criminal law; the sources of substantive criminal law and historical development of common law principles of criminal responsibility; constitutional constraints on the decision to define behavior as criminal. <strong>Components:</strong> Class&lt;br&gt;<strong>Prereqs/Coreqs:</strong> P: CRIMLJUS 2130 and CRIMLJUS 2230 with a “C-” or better in each and junior standing</td>
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<td>CRIMLJUS 4130</td>
<td>3</td>
<td>Police-Community Relations&lt;br&gt;Analysis of the interdependence of the police and community in maintaining order and controlling crime; theories of community and the community’s role in the development of police systems; tension and conflict in police-community interaction; programs and strategies for improving the quality of police-community relations. <strong>Components:</strong> Class&lt;br&gt;<strong>Prereqs/Coreqs:</strong> P: CRIMLJUS 2130 with a “C-” or better and junior standing</td>
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<td>CRIMLJUS 4230</td>
<td>3</td>
<td>Community-Based Corrections&lt;br&gt;Community-based correctional programs; pre- and post-trial; a critical investigation of theories, practices and problems involved in pre-trial diversion, probation and parole. <strong>Components:</strong> Class&lt;br&gt;<strong>Prereqs/Coreqs:</strong> P: CRIMLJUS 2230 with a “C-” or better and junior standing</td>
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<td>CRIMLJUS 4330</td>
<td>3</td>
<td>Criminal Procedure and Evidence&lt;br&gt;A study of case law defining constitutional constraints on police behavior in the areas of arrest, search and seizure, interrogation, identification and investigation; rules on the exclusion of illegally seized evidence. <strong>Components:</strong> Class&lt;br&gt;<strong>Prereqs/Coreqs:</strong> P: CRIMLJUS 4030 with a “C-” or better and junior standing</td>
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<td>CRIMLJUS 4430</td>
<td>3</td>
<td>Issues in Criminal Justice Planning and Management&lt;br&gt;Problems confronting American criminal justice in the areas of criminal law, courts, law enforcement and corrections; models and alternatives for reforming the criminal justice process including program planning, development and management. <strong>Components:</strong> Class</td>
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<td>CRIMLJUS 4500</td>
<td>1–3</td>
<td>Directed Individual Studies&lt;br&gt;Supervised individual study of a topic selected by the student with staff approval. <strong>Components:</strong> Independent Study&lt;br&gt;<strong>Cross Offering:</strong> FORENSIC 4500&lt;br&gt;<strong>Prereqs/Coreqs:</strong> P: CRIMLJUS 4030 with a “C-” or better, an accumulated GPA of 2.50 and junior standing</td>
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<td>CRIMLJUS 4530</td>
<td>3</td>
<td>Social Welfare Policy&lt;br&gt;This course provides a basic conceptual framework for understanding and interpreting historical and contemporary social welfare policy proposals, methods, and alternatives to existing policies and programs such as those that impact at-risk and diverse populations. <strong>Components:</strong> Class&lt;br&gt;<strong>Prereqs/Coreqs:</strong> P: CRIMLJUS 1130 with a “C-” or better or PSYCHLGY 1130 with a “C-” or better or SOCIOLGY 1030 with a “C-” or better and junior standing</td>
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</tbody>
</table>
CRIMLJUS 4540 3 credits
Social Work Practice with Communities, Organizations and Social Institutions
This course will prepare students to engage with, assess, intervene with, and evaluate social work organizations and communities. The purpose of this course is to address social work practices with communities, organizations and social institutions. The National Association of Social Workers (NASW) Code of ethics and the National Association of Social Workers (NASW) standards for cultural competence in social work practices will provide the guiding principles for social work values and ethics. This course includes an analysis of social work theories and principles, their application to organizational, communal, and institutional settings, and specific techniques and methods appropriate to community organizing and development.
Components: Class

CRIMLJUS 4630 1–3 credits
Current Topics In Criminal Justice
Current issues in criminal justice which may not warrant a permanent course. Course content will be announced each time the course is presented.
Components: Class
Prereqs/Coreqs: P: CRIMLJUS 1130 with a "C-" or better

CRIMLJUS 4730 2–4 credits
Honors in Criminal Justice Research
The practical application of research to the criminal justice field. The student will design a complete research project within the framework of a tutorial relationship with a member of the criminal justice faculty.
Components: Independent Study

CRIMLJUS 4840 3 credits
Substance Abuse I: Theory and Assessment
This course is designed to provide an overview of basic psychopharmacology, recreational drug use, substance abuse, and dependency. Included in this approach will be coverage of addiction theory, prevention, and assessment. Particular attention will be paid to risk and protective factors associated with abuse and dependency.
Components: Class
Cross Offering: PSYCHLGY 4840
Prereqs/Coreqs: P: CRIMLJUS 1130, PSYCHLGY 1130 or SOCIOLGY 1030 and junior standing; a biology course is recommended

CRIMLJUS 4850 3 credits
Substance Abuse II: Intervention and Special Populations
This course is designed to provide an overview of the fundamental theories, principles, and techniques of substance abuse counseling. In addition to gaining theoretical knowledge of recognized substance abuse counseling interventions, students will also practice these intervention skills in class. Issues related to case management will be covered including treatment planning, goal setting, continual assessment, referral, record management, and written documentation. Particular attention will be paid to addressing the application of these interventions and case management procedures to culturally diverse special populations. Ethical issues related to substance use and professional responsibility will also be discussed.
Components: Class
Cross Offering: PSYCHLGY 4850
Prereqs/Coreqs: P: PSYCHLGY 4840 or CRIMLJUS 4840

CRIMLJUS 4880 8 credits
Internship
Enhancement of the educational experience through placement of a student with a governmental or private agency, emphasis place on integration of criminal justice theory and practice through field observations, practical experience, and extensive report writing, including submission of daily reports, administrative reports, and case reports.
Components: Field Studies
Cross Offering: FORENSIC 4500
Prereqs/Coreqs: P: 60 credits plus 12 upper division criminal justice/forensic investigation credits, an accumulated GPA of 2.25 and have passed the department's writing certification requirement

CRIMLJUS 4930 3 credits
Criminal Justice Seminar
Discussion and evaluation of problems in the contemporary criminal justice system; individual research and presentation of findings.
Components: Seminar
Prereqs/Coreqs: P: CRIMLJUS 4030 with a “C-” or better, senior standing and have passed the department’s writing certification requirement

ECONOMICS

ECONOMIC 2130 3 credits
Principles of Macroeconomics
An introduction to basic economic principles with applications to current economic problems. Demand, supply and the role of prices in the U.S. economy are briefly surveyed followed by in-depth study of the national (or macro) economy. Topics include unemployment, inflation and economic growth; theories of economic recession and prosperity; the role of money and banking in the economy; government taxing and spending policies to stabilize the economy; and the U.S. as part of the international economy.
Components: Class
GE: Social Sciences
ECONOMIC 2230 3 credits
Principles of Microeconomics
An introduction to basic economic principles with applications to current economic problems. Emphasis is on understanding how households and business firms make decisions in the U.S. economy. Topics include how prices are determined and how they help solve the economic problem of scarcity, the distribution of income and wealth, problems of monopoly power, labor unions and labor problems, environmental and energy concerns, and agricultural economics.

Components: Class
GE: Social Sciences

ECONOMIC 2410 3 credits
Interpretation of Business and Economic Data
The nature of statistical data in business and economics; the use of tabular, graphical and numerical analysis; probability, estimation and hypothesis testing; correlation and regression; index numbers, time series; and forecasting.

Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: Math 1630 or higher (3 credits)

ECONOMIC 2940 3 credits
The Political Economy of Race, Gender and Ethnicity
This course uses economic principles to analyze salient issues involving people of color, women, and ethnic minorities. The focus is interdisciplinary, drawing from the fields of business, political science, and others. Pertinent principles and concepts are used to analyze causes and effects of the changing composition of U.S. families, to examine the nature and extent of discrimination within the U.S. economy, and to understand why issues involving race, ethnicity, and gender are of concern to us both individually and collectively.

Components: Class
Cross Offering: ETHNSTDY 2940 AND POLISCI 2940
GE: Ethnic Studies, Gender Studies

ECONOMIC 3530 3 credits
Economic History of The United States: The First Three Hundred Years
An introductory survey of the evolution of the market economy of the United States up until World War I and of American thought concerned with the problems arising from such changes.

Components: Class
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 and/or HISTORY 1430

ECONOMIC 3630 3 credits
Comparative Economic Systems
An analysis of various forms of capitalism and socialism, with special attention given to the economics of the United States, the Soviet Union, England, and others.

Components: Class

ECONOMIC 3730 3 credits
Money and Banking
A survey of the monetary and banking systems of the United States as part of the nation's overall financial system. Major topics include; organization and functioning of financial intermediaries; the key economic roles of lending institutions and the Federal Reserve System; contemporary monetary theories, international financial structures.

Components: Class
Prereqs/Coreqs: P: sophomore standing; recommended: ECONOMIC 2130 and ECONOMIC 2230

ECONOMIC 3830 3 credits
Public Finance
Topics include: government expenditures, programs and public Services; principles and processes for collective decision-making; sources, principles and effects of taxes and other government revenues, and deficits, debts and budgeting in the public sector.

Components: Class
Prereqs/Coreqs: P: ECONOMIC 2130 and ECONOMIC 2230

ECONOMIC 4010 1 - 3 credits
Economics Workshop
Components: Class

ECONOMIC 4110 3 credits
Management Science
An introduction to quantitative methods used in business. Introduction to decision theory, linear programming and its applications, network and scheduling models.

Components: Class
Cross Offering: BUSADMIN 4110
Prereqs/Coreqs: P: completion of university math requirement and ECONOMIC 2410

ECONOMIC 4330 3 credits
International Economics
A study of the major aspects of international trade, finance and commercial policy under changing world conditions. Subjects studied include various theories of international trade, effects of tariffs and quotas, exchange rate determination, balance of payments analysis and policy, international monetary systems, international economic institutions and current problems.

Components: Class
Prereqs/Coreqs: P: ECONOMIC 2130, ECONOMIC 2230 and junior standing

ECONOMIC 4930 3 credits
Senior Seminar
Critical examination of select economic policy issues with active participation by Department of Economics faculty and other invited guests.

Components: Seminar
Prereqs/Coreqs: P: junior standing; recommended: ECONOMIC 2130 and ECONOMIC 2230
ECONOMIC 4940
Special Problems
Supervised reading on selected economic problems. Students may register for job orientation under this title. Appropriate forms must be filled out by students with approval of the instructor and the department chairperson.
Components: Independent Study
Prereqs/Coreqs: P: ECONOMIC 2130 and ECONOMIC 2230 and junior standing. Students may register for job orientation under this title. Appropriate forms must be filled out by students with approval of the instructor and department chair

ECONOMIC 4990
Internship
The practical application of marketing, finance, management and economics through on-the-job training. May be repeated for credit up to a total of eight credits. Students may not enroll for more than four credits without permission of the dean of the college.
Components: Field Studies

ELECTRICAL ENGINEERING

ELECTENG 1020
1 credit
Electrical Engineering Projects and Tools
Hands-on electrical-engineering laboratory projects such as audio amplifiers, LEDs, digital logic, and electric-motor measurements.
Components: Laboratory

ELECTENG 1210
3 credits
Circuit Modeling I
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in MATH 2640

ELECTENG 2210
4 credits
Circuit Modeling II
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 1210 and MATH 2740

ELECTENG 2220
4 credits
Signals and Systems
Linear system modeling with differential equations, Laplace transforms, and convolution. Transfer functions, frequency response, and Bode plots.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2210. C: MATH 3630

ELECTENG 3020
4 credits
Analog Electronics
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2210

ELECTENG 3130
4 credits
Solid State Electronic Devices
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2210, PHYSICS 3140 and MATH 3630

ELECTENG 3140
4 credits
Electric and Magnetic Fields
Electrostatics, magnetostatics, Maxwell’s equations, plane waves, and transmission lines.
Components: Discussion, Class
Cross Offering: ENGRPHYS 3640
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2220, MATH 2840, MATH 3630 and PHYSICS 2640 or PHYSICS 2340

ELECTENG 3210
3 credits
Engineering Computation
Introduction to Matlab programming. Applications of Matlab to probabilistic analysis of communication systems, statistical analysis of product yields, matrix and state-space analyses of control systems and power systems, etc.
Components: Class
Prereqs/Coreqs: P: MATH 2840 and ELECTENG 2220 with a grade of C- or better

ELECTENG 3320
4 credits
Automatic Controls
Analysis and synthesis of single-input, single output linear time-invariant systems are considered through classical Laplace transform methods such as root-locus and frequency-domain techniques. The computer simulations demonstrate practical application of the concepts.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C” or better in ELECTENG 2220

ELECTENG 3410
4 credits
Introduction to Electrical Machines and Power Systems
Introduction to electromechanics, generators, transformers, transmission lines, motors and network analysis.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: ELECTENG 2210 with a “C-” or better or GENENG 2930 with a “B” or better and PHYSICS 2340 with a “B” or better

ELECTENG 3770
4 credits
Logic and Digital Design
Introduction to digital logic. Boolean algebra. MSI and LSI. Combinational and sequential network design, prototyping, and testing. State machine design and implementation. Introduction to HDL and programmable logic devices.
Components: Laboratory, Class
Prereqs/Coreqs: P: “C” or better in ELECTENG 1210 or (ELECTENG 1020 and COMPUTER 3230)
ELECTENG 3780
Introduction to Microprocessors
4 credits
Introduction to microprocessor assembly language programming. Fundamentals of microprocessor architecture, data representation, and arithmetic. System debugging. Interfacing and interrupts. Microprocessor- and microcontroller-based system design, testing, and implementation.
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in COMPUTER 1430 and ELECTENG 3770

ELECTENG 3950
Electrical Engineering Cooperative Education
4 credits
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. During co-op the student is expected to be away from his/her studies at UW-Platteville and work for an industry for a semester and summer. Credits do not fulfill graduation requirements. Minimum cumulative GPA of 2.50 is recommended for participation.
Components: Field Studies
Prereqs/Coreqs: P: junior standing

ELECTENG 3970
Electrical Engineering Internship
1 credit
Work experience in industry under the direction of the department chair and College of Engineering, Mathematics and Science Cooperative Education and Internship Program. NOTE: This program is separate and distinct from the cooperative education program and is principally designed to cover the summer work experience. Internship is designed to provide experiential learning experience to the student during the summer period. Credits do not fulfill graduation requirements.
Components: Field Studies
Prereqs/Coreqs: junior standing

ELECTENG 4020
UHF Oscillator Design
1 credit
Scattering parameters, the Smith Chart, transistor characterization, device destabilization, lumped-element impedance matching, UHF CAD techniques, output power prediction, and transistor bias techniques.
Components: Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3020

ELECTENG 4040
Analog IC Design
4 credits
Design of integrated electronic circuits such as operational amplifiers, oscillators, modulators, and A/D converters.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2220 and ELECTENG 3020 and ELECTENG 3130

ELECTENG 4050
Advanced Analog Electronic Circuits
4 credits
Design of discrete and integrated electronic circuits used in communication systems, such as oscillators, modulators, low-noise amplifiers, and class AB, B, and C power amplifiers.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2220 and ELECTENG 3020 and ELECTENG 3130

ELECTENG 4310
Modern Control Systems
4 credits
State space modeling of systems, solution of state equations, controllability and observability, Lyapunov stability, minimum realization, and state feedback design.
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3320

ELECTENG 4320
Digital Signal Processing
4 credits
Discrete time systems, frequency response of linear time invariant systems, Z transforms, discrete Fourier transform, FFT. Design of FIR and IIR digital filters.
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2220 and COMPUTER 1430

ELECTENG 4350
Discrete Time Control Systems
4 credits
Z-transforms, sampling theory, analysis and design of digital control systems.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3320

ELECTENG 4430
Power Electronics
4 credits
Power electronic switches, converter systems: AC-to-AC, AC-to-DC, DC-to-DC, and DC-to-AC; harmonics; real and complex power in power electronic systems.
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2220 and ELECTENG 3020 and ELECTENG 3410 and ELECTENG 3770

ELECTENG 4440
Electric Motor Drives
4 credits
Theory and operation of modern AC electric motor drives, multiple reference frame theory for three-phase AC systems, dynamic modeling of induction machines, operation of the fully controlled three-phase power converters, speed and torque control of induction motors, Voltage/Hertz control, permanent magnet synchronous motor drives, DC motor drives.
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3020 and ELECTENG 3320 and ELECTENG 3410

ELECTENG 4450
Power Systems Analysis and Design
4 credits
Power systems modeling, load flow, economic dispatch, stability, fault analysis, computer simulation and systems analysis.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3410

ELECTENG 4610
Communication Systems
4 credits
Analysis and design of amplitude, angle, and pulse code modulation systems.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2220 and ELECTENG 3020 and ELECTENG 3770
ELECTENG 4620  4 credits
Optical Systems
Geometric and physical optics, lasers, light emitting diodes, optical detectors, optical signal processing, holography, nonlinear optics, integrated optics, optical fibers, optical communications systems.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3140, ELECTENG 4610 and PHYSICS 3140 or consent of instructor

ELECTENG 4720  4 credits
Microcomputer Architecture and Interfacing
Computer architecture including processor design, microprogrammed control, memory organization, interconnection structures, input/output, interface techniques, and parallel processing.
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3780

ELECTENG 4750  4 credits
Advanced Digital Design
Introduction to semi-custom integrated circuit design; design methodology (design entry, simulation, cell placement, and macro libraries); optimization of designs based on macro libraries; design for testability; logic simulation; placement and routing algorithms for gate arrays and standard cells; PLA-based programmable logic devices; programmable gate arrays; design projects using CAD systems.
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3140 and ELECTENG 3780; C: ELECTENG 3130

ELECTENG 4990  1 - 3 credits
Independent Study
Advanced study in area of specialization selected by student and approved by faculty member.
Components: Independent Study

ENERGY

ENERGY 2130  3 credits
Energy, Environment, and Society
The course will provide the student with an overview of issues related to energy and renewable energy, including usage trends, historical patterns, social responses to energy changes, economic factors, market forces, geographical concerns, the various forms and sources of energy including renewable energy and bio-energy, how these sources may affect the environment, and recent developments in energy policies in the U.S. and the world. Energy, power, energy sources as well as usage patterns by societies over history will be presented. Field trips may be required in this course.
Components: Class GE: Social Sciences Prereqs/Coreqs: P: ENGLISH 1230

ENERGY 2340  4 credits
Fundamentals of Energy Sources
Traditional, renewable, and bio-energy sources and their characteristics will be studied. Advantages and disadvantages of existing and future energy sources will be explored along with the economic and environmental impact of various energy sources including fossil fuels, wind, photovoltaic, geothermal, and biofuels. Field trips may be required for this course.
Components: Laboratory, Class
Prereqs/Coreqs: P: ENERGY 2130

ENERGY 3130  3 credits
Sustainability: Ecology, Resources and Practice
Examination of sustainability, its different meaning in different contexts, the idea of long-term sustainability as the use of resources without compromising the ability of future generations to use those resources, the relationship between energy & water resources and consumption; how industrial practices affect the sustainability of ecological systems; population dynamics, demographic trends, energy trends, peak oil, and true energy and resource usage will be explored. Practical applications are examined.
Components: Class
Prereqs/Coreqs: P:ENERGY 2340 or Junior Standing

ENERGY 3230  3 credits
Biorenewable Resources
History of Biorenewable resource utilization. Fundamental principles of thermodynamics and chemistry as applied to bioenergy and biorenewable resources including discussion of biopolymer structure and routing of these biopolymers to dedicated energy production models. Current and projected biorenewable resource base, including waste materials and dedicated energy crops. Coverage of genetic efforts to engineer biomass possessing higher energy densities and yields. Overview of production practices of dedicated energy crops. Description of process heat, stationary power, fuels, chemicals, and fibers derived from biorenewable resources. Heat and power conversion processes including combustion, gasification, and anaerobic digestion. Environmental impacts, sustainability, and economics of biorenewable resource use.
Components: Class
Prereqs/Coreqs: P: ENERGY 2340 and CHEMISTRY 1050 or higher

ENERGY 3330  3 credits
Energy Conversion, Transportation, and Storage Systems
Principles of energy conversion, transportation and storage systems will be explored. Energy conversion from one form to another with a special emphasis on heat, mechanical, and electrical energy and energy efficiency. Theoretical and practical limitations to energy transfer. Fossil fuel and electric energy transportation systems. Electric grid and electrical energy conversion and transmission. Linear optimization methods and linear programming as applied to energy. An overview of major category of energy storage systems.
Components: Class
Prereqs/Coreqs: P: ENERGY 2340 or JR Standing
ENERGY 3430  3 credits
Green Building Design
Students will study emerging delivery systems for high performance green buildings. The concept of integrated design is introduced together with emphasis on the main sustainable elements of the building including building site, water, energy, building construction, and Economics and Life-Cycle Costing Analysis. An overview provided on the different rating systems available including LEED, Green Globes, and other available international systems. Emphasis is given on the certification process of the USGBC Leadership in Energy and Environmental Design “LEED” systems as well as an introduction to energy modeling software.
Components: Class
Prereqs/Coreqs: P: ENERGY 2130 and C: GENENG 2820 or ECONOMIC 2230

ENERGY 3580  3 credits
Principles of Project Management and Sustainable Development
This is an upper division course that brings together business-minded students with STEM-minded students who are interested in project management, particularly understanding how sustainable development can be integrated with business models for selecting projects from a portfolio, and sustainable aspects related to project management. Includes the ten knowledge areas within the discipline of project management. Students also work in teams to analyze case studies for decision-making related to energy conservation and non-energy conservation projects.
Components: Class
Cross Offering: BUSADMIN 3580
Prereqs/Coreqs: ENERGY 2340 or JR Standing in Business Administration major or Accounting major

ENERGY 3950  2 credits
Renewable Energy Cooperative Education Enhancement of the educational experience through the placement of a student with a business, industry, or institution under the direction of the director of renewable energy program. During co-op, the student is expected to be away from his/her studies at UWP and work for a company or institution for a semester.
Components: Field Studies
Prereqs/Coreqs: P: minor in Renewable Energy, junior standing and ENERGY 2130

ENERGY 3970  1 credit
Renewable Energy Internship
Enhancement of the educational experience through the placement of a student with a business, industry, or institution under the direction of the director of renewable energy program. Internship is designed to provide experiential learning experience to the student during the summer period.
Components: Field Studies
Prereqs/Coreqs: P: minor in Renewable Energy, junior standing and ENERGY 2130

ENERGY 4920  2 credits
Research or Design Project on Renewables
An open-ended comprehensive research or design project will be done on renewable energy, bio-energy, or bio-products by multi-disciplinary teams. Discussion and experiences in project management, team work, and ethics will be included. A written report and formal presentation are required.
Components: Laboratory
Prereqs/Coreqs: P: ENERGY 2340 and senior standing

ENERGY 4980  1–3 credits
Current Topics in Energy
In-depth study of a current topic of interest in energy area. The course aims to better prepare students in the Minor by providing the latest developments in the energy area and involving students in finding, assimilating and presenting current literature and research. Topics to be covered will be identified by the instructor at the time of the offering.
Components: Class
Prereqs/Coreqs: P: consent of instructor

ENERGY 4990  1–3 credits
Independent Study
Advanced study or research in an area of specialization selected by student and approved by faculty member.
Components: Independent Study
Prereqs/Coreqs: P: consent of instructor

ENGLISH

ENGLISH 1130  3 credits
Freshman Composition
Rhetorical principles of writing--the sentence, the paragraph and the essay--with practice in reading and writing prose.
Components: Class
GE: English
Prereqs/Coreqs: P: ENGLISH 0010 or a score above the 10th percentile, according to state norms, on the UW-System English Placement Test

ENGLISH 1230  3 credits
Freshman Composition
A continuation of English 1130 with particular emphasis on argumentation, research and documentation, and writing essays based on inductive analysis.
Components: Class
GE: English
Prereqs/Coreqs: P: ENGLISH 1130 or testout

ENGLISH 1330  3 credits
Introduction to Literature
A course designed to introduce the student to the understanding and enjoyment of literature through different literary genres--fiction, poetry and drama--and to acquaint the students with such literary terms as plot, theme, character, setting, form, and interpretation. Does not count towards English major.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 2100 3 credits
Thematic Studies in Literature
This course focuses on a specific cultural, literary, or intellectual theme as expressed in selected literary works. The specific topic will be chosen by the instructor and announced when the course is scheduled. May be repeated once for credit, provided the content varies.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 210W 3 credits
Thematic Studies in Literature
A WRITING EMPHASIS COURSE IS DESIGNED TO EFFECTIVELY USE WRITING TO ENHANCE STUDENT LEARNING OF COURSE SPECIFIC CONTENT THROUGH VARIOUS MEANS SUCH AS SELF-REFLECTION, ANALYSIS, PROBLEM SOLVING AND RESEARCH. This course focuses on a specific cultural, literary, or intellectual theme as expressed in selected literary works. The specific topic will be chosen by the instructor and announced when the course is scheduled. May be repeated once for credit, provided the content varies.
Components: Class
GE: Humanities, Writing Emphasis
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2120 3 credits
Introduction to Creative Writing
An introduction to the craft of fiction and poetry, with the opportunity to create each. Students need a basic foundation in writing before taking the course.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2130 3 credits
British Literature I: Beginnings through the Age of Swift
This course surveys British literature from its beginnings through the Age of Pope and Swift. Students will look at representative works, from both canonical and non-canonical authors, to better understand British literary history. Authors may include Chaucer, Shakespeare, Milton, and Pope.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2150 3 credits
Introduction to Gay Studies
Introduction to Gay Studies is an interdisciplinary course covering the history, culture, and politics of gay men, lesbians, bisexuals, and transgendered persons around the world. The course seeks to theorize, document, uncover, and revise our existing knowledge about same-sex attraction and gender identity and also examine a wide range of related historical figures and events. Using the lenses of social science, science, and the humanities, the course explores ways in which sexual orientation and gender limit and expand individual experience.
Components: Class
GE: Humanities and Gender
Cross Offering: WOMGENDR 2150
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2210 3 credits
Introduction to Linguistics
A general introduction to linguistics, the study of human language. This course covers the core topics of linguistics, including phonetics, phonology, morphology, syntax, semantics, pragmatics, sociolinguistics, and language acquisition. Examples will be drawn primarily from the English language.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2250 3 credits
Introduction to Film
"Introduction to Film" develops students' abilities to view films critically and deepen their understanding of the principal film genres through careful study of their historical contexts and cinematic techniques. The course focuses on the study of different genres and aesthetic schools of film, such as the French New Wave, German Expressionism, westerns, war films, musicals, and film noir, in terms of how they present aesthetic detail, ideological points of view (such as issues of gender and race), as well as fulfill certain expectations of the spectator. After a thorough grounding in the conventions of traditional genre in cinema, the class will also focus on the ways in which it has been revised by filmmakers in more recent periods of cinematic history.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2330 3 credits
British Literature II: Romanticism through the Present
This course surveys British literature from the Romantic period in the late eighteenth century to the present day. Students will look at representative works, from both canonical and non-canonical authors, to better understand British literary history. Authors may include Wordsworth, Tennyson, Joyce, and Mansfield.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2430 3 credits
American Literature Through the Civil War
American literature through the Civil War, including such writers as Bradstreet, Edwards, Franklin, Irving, Poe, Emerson, Thoreau, Hawthorne, Melville, and Douglass.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 2470  
American Humor
This course will provide a survey of humor in American culture. Students will consider the ways in which different genres of humor (such as satire and parody) have been used to critique or challenge the status quo. The study of American humor also provides an excellent avenue into the consideration of larger social issues, such as race and ethnicity, gender, and politics. In this course, students can learn about the ways in which marginalized groups have challenged racism and sexism without relying solely on narratives of trauma and oppression.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1230

ENGLISH 2530  
American Literature Since the Civil War
American literature from the Civil War to the present, including such writers as Whitman, Dickinson, Twain, Crane, James, Chopin, Cather, Hughes, Frost, Eliot and Faulkner.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2640  
World Literature I
Selected international literary works beginning with ancient mythologies and ending around 1700. May include authors such as Homer, Virgil, Sappho, Valmiki, Ch’ien, Shang-Yin, Rumi, Dante.
Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2650  
World Literature II
Selected international literary works beginning from around 1700 and ending with the present. May include authors such as Shang-Jen, Racine, Akinara, Baudelaire, Kafka, Gordimer, Paz, Kincaid.
Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2770  
International Cinema
This course will offer students an avenue to satisfy international education and humanities general education requirements via study of a wide range of films from different eras, nations, and cultures. This course seeks to introduce students to global history of film as an art form and how international cinema both responds to and influences the film styles that are more familiar to American students. Such a breadth of knowledge will both expand students’ knowledge of world cinema and also enrich students’ appreciation of American film by placing it in an international context. Finally, the course will examine not only diverse films but will also seek to understand the cultural and historical context that gave rise to these films.
Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2780  
Race and Gender in American Film
This course will offer students a lens through which to study the changing role of race and gender in American society and will explore how the American film industry reflects the larger inequities in American cultural, economic, and artistic structures that disempower women and people of color. The course will examine films by men and non-minorities to analyze stereotypes and misconceptions of women and people of color that continue to be disseminated via film. More importantly, though, the course will introduce students to a wide range of unfamiliar films, both contemporary and recovered from a submerged film history, written and directed by women and people of color, both men and women.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2830  
Survey of Women Writers
Survey of women writers in the English language with a focus on the themes, issues, and concerns that tie women’s writing together and create a ‘women’s literary tradition.’ British, American, and international writers are included.
Components: Class
Cross Offering: WOMGENDR 2830
GE: Gender Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2930  
Minority Women Writers of the United States
Minority Women Writers of the United States Literature written by Native-American women, African-American women, Latina-American women, and Asian-American women. Includes investigation of historical and cultural backgrounds as well as literary traditions of minority women of the United States. Students will read authors such as Alice Walker, Toni Morrison, Maya Angelou, Maxine Hong Kingston, Sandra Cisneros, Louise Erdrich, Leslie Marmon Silko and others.
Components: Class
Cross Offering: ETHNSTDY 2930 AND WOMGENDR 2930
GE: Ethnic Studies, Gender Studies
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3000  
Technical Writing
Technical description and explanation, job applications and business correspondence, and reports suited to one’s major (e.g. a criminal or safety investigation, feasibility study or grant proposal); oral presentations; technical editing. Emphasis on clarity, conciseness, precision and effective communication with lay audiences and management.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3030  
Teaching of Composition
The rhetorical principles and approaches to composition. Includes practice in writing and evaluating composition with emphasis on practical ways to teach writing in the elementary, middle, and high school. One hour of classroom participation is required.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 3050 3 credits
Introduction to Contemporary Literary Theory and Criticism
This course teaches students how to read and respond to literature with a critical eye informed by knowledge of various theories of reading and criticism of the 20th century. While grounding students in the necessity of close reading and thoughtful attention to the text itself, this course will also introduce students to several theoretical approaches to literature. This course will therefore include both primary texts (which may include novels, plays, short stories, poems, film, etc.) and secondary texts about the various theories, concepts, and theorists.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3110 3 credits
Gay and Lesbian Literature for Young Adults
An analysis of selected gay and lesbian literature and films especially suitable for young adults of high school age with an emphasis on approaches and methods for teaching literature and addressing the needs of GLBT students.
Components: Class
Cross Offering: WOMGENDR 3110
GE: Gender Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3140 3 credits
Poetry Writing
Poetry writing is an exploration of the various elements and techniques involved in the craft and art of writing poems. The course will focus primarily on writing workshops in which students and faculty learn to critique one another’s work, but will also include in-class writing activities and class discussions of assigned readings. Students will read, discuss, and analyze a range of poetry from traditional to contemporary poets.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3150 3 credits
Fiction Writing
This is a fiction writing workshop in which students will study the techniques and art of fiction writing and will write fiction which they will submit to their professor, as well as their peers, for review.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and 1230

ENGLISH 3160 3 credits
Creative Nonfiction Writing
This is a creative nonfiction-writing workshop designed to teach students what creative nonfiction is and how to write it. Students will read examples of such creative nonfiction works as the personal essay, the memoir or nature writing, and will be required to write creative nonfiction, which they will submit to class for peer review.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and 1230

ENGLISH 3230 3 credits
The English Novel and Short Story
A study of the beginning of the novel in the English language and the ensuing development of fiction in Britain, including the emergence of the short story. Authors could include Defoe, Richardson, Austen, Shelley, Eliot, Joyce, Mansfield, Woolf, Forster and Greene.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3240 3 credits
Advanced Writing
An advanced writing course concentrating on rhetorical and research strategies, prose styles, and their practical application to understanding and evaluating current and traditional essays as well as contemporary media such as film, television, and advertising.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3250 3 credits
Sociolinguistics
An introduction to sociolinguistics, the study of language in its social context. This course covers a wide range of topics, including dialects, stylistic variation, language and gender, language contact, language change, world Englishes, language planning, language and power, and the applications of sociolinguistics, to provide students with an understanding of the interaction between language and society. Examples will be drawn from the United States and around the world.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3260 3 credits
Language and Culture
Examines the theoretical and practical relationship between language and selected social and cultural aspects of human life. Discusses contiguities of linguistic and cultural practices; examines how particular language practices create and maintain social structures, and how discourse reflects social structures and cultural values.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3270 3 credits
Old and Middle English Literature
An advanced study of Old and Middle English Literature with attention to the development of genres and styles which shaped early English literary traditions, including Anglo Saxon epic, romance literature, and Christian narrative. Texts may include “Beowulf,” narratives about King Arthur, selections from Chaucer’s “The Canterbury Tales,” medieval lyric poetry, and “Everyman.”
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1230
ENGLISH 3280 3 credits
Gay and Lesbian Literature
While focusing primarily on contemporary gay and lesbian fiction, this course also provides an overview of the evolution of international gay and lesbian literature from its beginnings to the present, including such authors as Sappho, Hafiz, Sadi, Whitman, Wilde, Cather, Woolf, Forster, Gide, Hughes, Lorca, Rimbaud, Stein, Baldwin, Bishop, Ginsberg, and Lorde.
Components: Class
Cross Offering: WOMGENDR 3280
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3360 3–6 credits
Magazine Writing and Editing
An advanced writing and editing course concentrating on planning, creating, and evaluating written copy for print and online magazines. Emphasizes both preparing the student’s work for trade publications, and studying and practicing the processes of those publications.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3370 3 credits
Renaissance Poetry and Prose
An intensive look at the poetry and prose of this period providing students with a greater appreciation of and a methods for studying this literature. This course will introduce students to a number of important literary genres, including the pastoral, the elegy, the sonnet, Ovidian poetry, travel literature, and the epic; the intellectual thought underlying much of this work (e.g., issues of the Reformation, Neo-Platonism, Humanism, Machiavellianism); and the influence of classical and continental literature.
Components: Class
GE: Humanities

ENGLISH 3410 3 credits
Chicano Literature
An examination of representative texts from various Chicana/Chicano writers, covering a range of genres and generations. There will be an emphasis on the relationship between literary production and historical context, in particular, the involvement of the writers in the social and political conflicts affecting the Chicano community.
Components: Class
Cross Offering: ETHNSTDY 3410
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3430 3 credits
Development of the American Novel
The evolution of the American novel from its beginnings to the present, including such authors as Hawthorne, Melville, James, Hemingway, Chopin, Faulkner and Morrison.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3440 3 credits
Nineteenth-Century British Literature
An advanced study of nineteenth-century British literature, with particular attention to the Romantic and Victorian periods and writers such as William Wordsworth, Jane Austen, and Oscar Wilde. Different topics may include industrialization, British imperialism and science and religion.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1230

ENGLISH 344W 3 credits
Nineteenth-Century British Literature
A WRITING EMPHASIS COURSE IS DESIGNED TO EFFECTIVELY USE WRITING TO ENHANCE STUDENT LEARNING OF COURSE SPECIFIC CONTENT THROUGH VARIOUS MEANS SUCH AS SELF-REFLECTION, ANALYSIS, PROBLEM SOLVING AND RESEARCH. An advanced study of nineteenth-century British literature, with particular attention to the Romantic and Victorian periods and writers such as William Wordsworth, Jane Austen, and Oscar Wilde. Different topics may include industrialization, British imperialism and science and religion.
Components: Class
GE: Humanities, Writing Emphasis
Prereqs/Coreqs: P: ENGLISH 1230

ENGLISH 3530 3 credits
Modern American Drama
American plays from World War I to the present, including such playwrights as O’Neill, Rice, Wilder, Hellman, Williams, Miller, Albee, Wilson, Hansberry, and Henley.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3540 3 credits
Twentieth and Twenty-First Century British Literature
An advanced study of British literature after 1900, with a particular focus on Modernism and Postmodernism, including writers such as Virginia Woolf, G.B. Shaw, and Seamus Heaney. Topics covered may include literature and war, the collapse of the British commonwealth, and literary experimentation.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1230

ENGLISH 354W 3 credits
Twentieth and Twenty-First Century British Literature
A WRITING EMPHASIS COURSE IS DESIGNED TO EFFECTIVELY USE WRITING TO ENHANCE STUDENT LEARNING OF COURSE SPECIFIC CONTENT THROUGH VARIOUS MEANS SUCH AS SELF-REFLECTION, ANALYSIS, PROBLEM SOLVING AND RESEARCH. An advanced study of British literature after 1900, with a particular focus on Modernism and Postmodernism, including writers such as Virginia Woolf, G.B. Shaw, and Seamus Heaney. Topics covered may include literature and war, the collapse of the British commonwealth, and literary experimentation.
Components: Class
GE: Humanities, Writing Emphasis
Prereqs/Coreqs: P: ENGLISH 1230
ENGLISH 3610 3 credits
Second Language Acquisition
This course is concerned primarily with how people acquire a second language. It examines cognitive, linguistic, psychological, and sociocultural aspects of second language acquisition and explores their implications for second language learning and teaching.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3730 3 credits
Black Literature in America
A survey of African American literature beginning in the ante bellum period and continuing to the present, including oral forms (folk tales and spirituals), novels, poetry, drama, autobiography, and other selected non-fiction.
Components: Class
Cross Offering: ETHNSTDY 3730
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3740 3 credits
Asian American Literature
A survey of Asian-American literature beginning in the early 1900s and continuing to present times. Includes works of fiction, autobiography, poetry, and drama. Focuses on writers from different literary and oral traditions including (but not limited to) Mandarin Chinese, Japanese, Thai, Hmong, Vietnamese, and Indian, and examines the impact of family, culture, and gender both within these traditions and between a particular tradition and U.S. popular culture.
Components: Class
Cross Offering: ETHNSTDY 3740
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3750 3 credits
American Literature of Ethnicity and Immigration
An examination of literature from a variety of U.S. “racial” and “ethnic” groups, including African-, Italian-, Mexican-, Jewish-, Asian-, and Native-American. Emphasis will be placed on the meanings of “race” and “ethnicity,” the effects of immigration, and the impact of gender in this literature.
Components: Class
Cross Offering: ETHNSTDY 3750
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3760 3 credits
Wisconsin Indian Literature
An exploration of Wisconsin Indian literatures from the oral tradition to the present; texts studied will include epics, legends, poetry, novels, and selected non-fiction, including such writers as Mountain Wolf Woman, Louise Erdrich, and Susan Power.
Components: Class
Cross Offering: ETHNSTDY 3760
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3830 3 credits
The World Novel
A careful study of selected novels exclusive of English and American. Content and focus may vary in different semesters and may include such writers as Dostoyevsky, Flaubert, Mann, Kafka, Cortazar, Achebe, Lagerkvist, Kawabata, and Dinesen.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3850 3 credits
Contemporary Global Literature and Empire
A study of literature that addresses both the history and legacy of imperialism. The readings will focus on writing in English from non-European countries. Content and focus may vary in different semesters and may include writers from Africa (such as Chinua Achebe, Nuruddin Farah, or Wole Soyinka), India (such as Bharati Mukherjee, Arundhati Roy, or Salman Rushdie), the Caribbean (such as Jamaica Kincaid, V.S. Naipaul, or Derek Walcott), and Ireland (such as Brian Friel, Seamus Heaney, or Paul Muldoon).
Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3890 3 credits
Film and Literature
Film adaptations of representative fictional texts, such as historical romances, gothic novels, short stories, plays, will be viewed, as students read the original texts on which they are based. A study will be made of the connection between literature and film, or the translation of words into sound, pictures, and dialogue. Some theory of film will also be introduced. The ultimate goal of the course will be to arrive at a method of critically viewing films and of critically reading literature, through an examination of the same story as it is told through different media.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3910 3 credits
Classical Mythology
Studying classical mythology as presented in ancient Greek and Roman epic, drama, and poetry provides a gateway to appreciating over two millennia of literature, art, philosophy, religion, politics and more. Classical mythologies influence cannot be overstated. Knowing these works is an essential part of understanding what we are as human beings. Students will read some of the essential works of classical mythology, including such works as Hesiod’s Theogony, Homer’s Odyssey, Aeschylus’ Agamemnon, Sophocles’ Oedipus Rex, Virgil’s Aeneid, and Ovid’s Metamorphoses.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3930 3 credits
Literature for Young Adults
An analysis of selected novels, plays, and poetry especially suitable for young adults of middle or high school age with an emphasis on approaches and methods for teaching literature.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 3940 3 credits
Grammar in Context
Attention given to both traditional and modern (functional) grammar, including the parts of speech, phrases, clauses, sentence patterns, and their combinations into a variety of sentence types and paragraph patterns. Practical application of grammatical concepts in a writing- and reading-intensive environment, with attention to the logic of punctuation and conventional mechanics.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3990 3 credits
Topics in Language, Literature, or Writing
A critical examination of one area of language, literature or writing. The themes vary; therefore this course may be taken more than once for credit, provided the content is different each time.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4020 3 credits
History and Theory of Rhetoric
This course is designed for students who will use and/or teach rhetoric strategies and structures in the professional world. From speech and communication theory to the teaching of critical and interpretational writing and reading, the study of rhetoric’s place in the history of ideas will help students to understand the place and power of language in the university and the professional work place.
Components: Class
Cross Offering: SPEECH 4020
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4030 3 credits
Major English Writers
An intensive study of selected major English writers including Chaucer and Milton.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4100 3 credits
Studies in Fiction
An intensive study of fiction. The specific topic will be chosen by the instructor and announced when the course is scheduled. Topics might include a focus on a specific genre, theme, or historical period. May be repeated once for credit, provided the content varies.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1230 and sophomore standing or consent of the instructor

ENGLISH 410W 3 credits
Studies in Fiction
A WRITING EMPHASIS COURSE IS DESIGNED TO EFFECTIVELY USE WRITING TO ENHANCE STUDENT LEARNING OF COURSE SPECIFIC CONTENT THROUGH VARIOUS MEANS SUCH AS SELF-REFLECTION, ANALYSIS, PROBLEM SOLVING AND RESEARCH. An intensive study of fiction. The specific topic will be chosen by the instructor and announced when the course is scheduled. Topics might include a focus on a specific genre, theme, or historical period. May be repeated once for credit, provided the content varies.
Components: Class
GE: Humanities, Writing Emphasis
Prereqs/Coreqs: P: ENGLISH 1230 and sophomore standing or consent of the instructor

ENGLISH 4110 3 credits
Studies in Drama
An intensive study of drama. The specific topic will be chosen by the instructor and announced when the course is scheduled. Topics might include a focus on a specific genre, theme, or historical period. May be repeated once for credit, provided the content varies.
Components: Class
GE: Humanities

ENGLISH 411W 3 credits
Studies in Drama
A WRITING EMPHASIS COURSE IS DESIGNED TO EFFECTIVELY USE WRITING TO ENHANCE STUDENT LEARNING OF COURSE SPECIFIC CONTENT THROUGH VARIOUS MEANS SUCH AS SELF-REFLECTION, ANALYSIS, PROBLEM SOLVING AND RESEARCH. An intensive study of drama. The specific topic will be chosen by the instructor and announced when the course is scheduled. Topics might include a focus on a specific genre, theme, or historical period. May be repeated once for credit, provided the content varies.
Components: Class
GE: Humanities, Writing Emphasis

ENGLISH 4120 3 credits
Advanced Manuscript Workshop
This course is designed for students who are interested in developing the critical and editorial skills necessary to pursue creative writing at an advanced level. Students will read and critique collections of poetry and fiction, workshop and extended manuscript of their poetry of prose, and prepare cover letters and personal statements for journals submissions, scholarships or graduate programs. Course assignments will emphasize the assessment of each writer’s direction and development.
Components: Class
Prereqs/Coreqs: P: ENGLISH 3140 or ENGLISH 3150 or ENGLISH 3160
ENGLISH 4150 3 credits
Studies in Poetry
An intensive study of poetry. The specific topic will be chosen by the instructor and announced when the course is scheduled. Topics might include a focus on a specific genre, theme, or historical period. May be repeated once for credit, provided the content varies.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1230 and sophomore standing or consent of the instructor

ENGLISH 415W 3 credits
Studies in Poetry
A WRITING EMPHASIS COURSE IS DESIGNED TO EFFECTIVELY USE WRITING TO ENHANCE STUDENT LEARNING OF COURSE SPECIFIC CONTENT THROUGH VARIOUS MEANS SUCH AS SELF-REFLECTION, ANALYSIS, PROBLEM SOLVING AND RESEARCH. An intensive study of poetry. The specific topic will be chosen by the instructor and announced when the course is scheduled. Topics might include a focus on a specific genre, theme, or historical period. May be repeated once for credit, provided the content varies.
Components: Class
GE: Humanities, Writing Emphasis
Prereqs/Coreqs: P: ENGLISH 1230 and sophomore standing or consent of the instructor

ENGLISH 4300 3 credits
English Renaissance Poetry and Prose
An intensive look at the poetry and prose of this period providing students with a greater appreciation of and methods for studying this literature. This course will introduce students to a number of important literary genres, including the pastoral, the elegy, the sonnet, Ovidian poetry, travel literature, and the epic; the intellectual thought underlying much of this work (e.g., issues of the Reformation, Neo-Platonism, Humanism, Machiavellianism); and the influence of classical and continental literature.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4330 3 credits
Shakespeare
A study of Shakespeare’s plays, with representative selections from the histories, the tragedies, and both the early and the late comedies.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4430 3 credits
Major American Writers
An intensive study of selected major American writers.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4500 3 credits
Women and Mythology: Goddess, Witch, Sibyl
This course takes a comparative and interdisciplinary approach to numinous images of the feminine as they appear internationally. By exploring pre-historical, historical, and contemporary manifestations of goddess-centered mythology and religious practices around the world, students will broaden their understanding of women’s contributions to the literary and spiritual traditions of many cultures.
Components: Class
Cross Offering: WOMGENDR 4500
GE: Gender Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4550 3 credits
Studies in World Literature
An intensive study of world literature. The specific topic will be chosen by the instructor and announced when the course is scheduled. Topics might include a focus on a specific genre, theme, or historical period. May be repeated once for credit, provided the content varies.
Components: Class
GE: Gender Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1230 and sophomore standing or consent of the instructor

ENGLISH 4620 3 credits
History of the English Language
Beginning with the relationship between the Indo-European languages, this course traces the origins of writing and the historical development of English grammar, vocabulary, and sound systems from Old to Modern English, including American and Colonial. It surveys language change within its historical, political, cultural, and technological contexts, including how these forces may shape our language’s future.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4670 3 credits
Methods of Teaching English as a Second Language
Examines the characteristics of second or other language acquisition and how they influence the effectiveness of different methods of teaching English as a Second Language. Includes teacher/learner characteristics and strategies, teaching varieties of language, review of methodologies, communicative competence, and syllabus design.
Components: Class
Cross Offering: TEACHING 4670
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4680 1–8 credits
Writing/Editing Internship
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the writing or editing assignment, type of experience, number of credits, and evaluation procedure to be stipulated in a statement of agreement between student and department.
Components: Field Studies
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 4730 3 credits  
Teaching of English in Middle and Secondary Schools  
The objectives, methods and materials dealing with the teaching of middle or high school English. Does not count toward the English major or minor.  
Components: Class  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and ENGLISH 3030 and junior standing; P or C: ENGLISH 3930

ENGLISH 4740 3 credits  
Practicum in Teaching English as a Second Language  
Observing teachers and students in TESL settings, participating in TESL teaching and tutoring activities including lesson preparation, and evaluating the teaching/learning experiences.  
Components: Class  
Cross Offering: TEACHING 4750  
Prereqs/Coreqs: P or C: ENGLISH 4670

ENGLISH 4780 3 credits  
Advanced Topics in Film Studies  
This course will provide an opportunity for students enrolled in the Interdisciplinary Film and Media Studies Minor to engage in an in-depth study of a particular topic in film studies and will complement the robust upper-division offerings from the Media Studies department. Topics might include Film History, Film Genres, Screenwriting, etc. Regardless of the specific topic, the course will require students to engage in extensive critical thinking, reading, and writing through a variety of assignments, readings, and projects.  
Components: Discussion, Class  
Prereqs/Coreqs: P: ENGLISH 1230 and ENGLISH 2250 or COMMNTCN 1630

ENGLISH 4920 1–4 credits  
Independent Study in English  
Independent study culminating in a written report or research paper. Each student selects the topic in consultation with the instructor.  
Components: Independent Study  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and senior standing. For English majors and minors only. May not be taken in lieu of regularly scheduled classes

ENGINEERING PHYSICS

ENGRPHYS 3640 4 credits  
Electric and Magnetic Fields  
Electrostatics, magnetostatics, Maxwell’s equations, plane waves, and transmission lines.  
Components: Discussion, Class  
Cross Offering: ELECTENG 3140  
Prereqs/Coreqs: P: ELECTENG 2220, MATH 3630 and PHYSICS 2640 or PHYSICS 2340

ENGRPHYS 3950 4 credits  
Engineering Physics Cooperative Education  
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. During co-op the student is expected to be away from his/her studies at UW-Platteville and work for an industry for a semester and summer. Credits do not fulfill graduation requirements. Minimum cumulative GPA of 2.50 is recommended for participation.  
Components: Field Studies  
Prereqs/Coreqs: P: junior standing

ENGRPHYS 3970 1 credit  
Engineering Physics Internship  
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. NOTE: This program is separate and distinct from the cooperative education program and is principally designed to cover the summer work experience. Internship is designed to provide experiential learning experience to the student during the summer period. Credits do not fulfill graduation requirements.  
Components: Field Studies  
Prereqs/Coreqs: junior standing

ENGRPHYS 4010 2 credits  
Engineering Physics Lab  
Experiments in physics, introduction to experimental techniques, systems engineering, and methods of experiment design.  
Components: Laboratory  
Prereqs/Coreqs: P: PHYSICS 3140 with a "C-" or better

ENGRPHYS 4140 4 credits  
Applied Optics  
Geometric and physical optics to minimally include ray matrices, Cardinal Points, time-harmonic waves, phasors, interference, diffraction, thin films, Fresnel relations, and Gaussian Optics. The course also includes a laboratory component which covers basic geometric and physical optics.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: PHYSICS 3140; C: ELECTENG 2220

ENGRPHYS 4210 2 credits  
Sensor Lab  
Study of the physics exploited by the most basic types of sensors, including photoelectric, electromechanical, resistive, inductive, capacitive, and chemical. Includes a study of the basic building blocks of a sensor system: the sensor itself, signal conditioning electronics, and computer interfacing.  
Components: Laboratory  
Prereqs/Coreqs: P: PHYSICS 3140 with a "C-" or better and ELECTENG 2210 and COMPUTER 1430; C: ENGRPHYS 4010
ENGRPHYS 4220 2 credits
Introduction to Quantum Electronics
Applications of quantum mechanics, statistical mechanics, and solid state physics to electronics, optoelectronics and other modern engineering technology.
Components: Class
Prereqs/Coreqs: P: PHYSICS 3140 with a “C-” or better; C: MATH 3630

ENGRPHYS 4930 3 credits
Engineering Physics Design
Integration of technical knowledge in an open-ended, comprehensive design project which simulates an engineering project environment, including teamwork, project management, and oral and written reports.
Components: Laboratory, Class
Prereqs/Coreqs: P: ENGRPHYS 4010 and student must be within one year of graduation

ENGRPHYS 4980 1–3 credits
Special Topics in Engineering Physics
A presentation of selected contemporary topics in physics.
Components: Class

ENGRPHYS 4990 1–4 credits
Independent Study in Engineering Physics
Study of special topics and/or developments of special projects having department approval.
Components: Independent Study

ENTREPRENUERSHIP

ENTRP 1020 3 credits
Introduction to Entrepreneurship
This course is an introduction to entrepreneurship and its many facets. This course covers the key concepts of entrepreneurship, including creativity, innovation and operating an entrepreneurial endeavor. The 4 tracks of venture creation will be covered: commercial, social, scientific and artistic. Entrepreneurial plans will be evaluated as case studies. Business model development, evaluation and implementation will be covered.
Components: Class

ENTRP 2030 3 credits
Accounting and Finance for Entrepreneurs
Students will learn basic accounting and finance principles. Particular focus will be given to developing understanding and skills necessary to successful start-up and operation of a new venture. This course will not fulfill Accounting and Finance requirements in the Business, Accounting, Ag Business majors or minors.
Components: Class

ENTRP 2040 3 credits
Marketing and Management for Entrepreneurs
Students will learn basic marketing and management principles. Particular focus will be given to developing understanding and skills necessary to successful start-up and operation of a new venture. Practical application of concepts to new/small business will be incorporated. This course will not fulfill Marketing or Management requirements in the Business, Accounting, Ag Business majors or minors.
Components: Class

ENTRP 3050 3 credits
New Venture Planning: Social, Commercial, Scientific and Artistic Ventures
This course examines the concepts and tools necessary to pursue social, commercial, scientific, and artistic business ventures. Emphasis will be placed on developing the business concept, validation, protection, resource needs and sources, marketing, finance, management, operations, and preparing to launch a new venture. It will include case studies and examples of new ventures in the social, commercial, scientific and artistic areas. The student will develop their own business plans as a capstone project.
Components: Class
Prereqs/Coreqs: P: ENTRP 1020 and 2030 and 2040 or ENTRP 1020 and 2010 and Business Track

ENTRP 3060 3 credits
New Venture Operations
This course covers the operational aspects of running an entrepreneurial endeavor. The students will take the broad concepts of entrepreneurship and implement them. The course covers how to run actual operations of the entrepreneurial endeavor in a hands-on experiential way. The class is an operations class that teaches how to apply the broader concepts to a new venture’s daily operations.
Components: Class
Prereqs/Coreqs: P: ENTRP 1020 and 2010 and 2030 and 2040 or ENTRP 1020 and 2010 and Business Track

ENTRP 4070 1–3 credits
Entrepreneurship Field Experience
The Field Experience provides students the ability to 1) practice and integrate their entrepreneurship education, 2) select a path most conducive to their future interests, and 3) reflect on the experience and its link to their entrepreneurial education. Students may choose from among field experiences established specifically for Entrepreneurship, preexisting field experiences where a creativity, innovation and entrepreneurship addendum can be added, or students may develop their own approved field experience. All field experiences will include a reflection process throughout the semester that enables students to assess and process both the experience and entrepreneurship in individual, social, cultural, civic and economic contexts.
Components: Class
Prereqs/Coreqs: P: ENTRP 3050 or ENTRP 3060
ENVIRONMENTAL HORTICULTURE

ENVHORT 1320 3 credits  
Introduction to Environmental Horticulture  
This course introduces students to the broad spectrum of disciplines which make up environmental horticulture, within the context of resilience and long-term sustainability. The objectives of this course are to gain understanding of the fundamental principles of plant anatomy, physiology, propagation, soils, substrates, fertilizers, amendments, planting and transplanting, and pest control. This course will utilize lectures, demonstrations, theoretical activities, and hands on learning activities.  
Components: Laboratory, Class

ENVHORT 2280 3 credits  
Woody Landscape Plants  
The identification, propagating, and use of woody ornamental plants important to Midwestern landscapes including deciduous and evergreen trees, shrubs, and ground covers.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: AGSCI 1240 or ENVHORT 1320 or SCSCI 1260 or BIOLOGY 1350 or consent of instructor

ENVHORT 3230 3 credits  
Turfgrass Management  
The basic principles and practices involved in the establishment and maintenance of turfgrass species.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: AGSCI 1240 or ENVHORT 1320 or SCSCI 1260 or BIOLOGY 1350 or consent of instructor

ENVHORT 3240 2 credits  
Herbaceous Plants  
Identification, use, management and propagation of herbaceous annual, biennial and perennial plant species important in Midwest landscapes will be discussed.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: AGSCI 1240 or ENVHORT 1320 or SCSCI 1260 or BIOLOGY 1350 or consent of instructor

ENVHORT 3270 3 credits  
Landscape Design  
An exploration of the basic principles and practices of landscape design including the art of landscapes, comprehensive site analysis and base map preparation, design principles, understanding and respect for the plant materials in landscapes, graphic skills and preparation of landscape drawings.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: ENVHORT 2280 or consent of instructor

ENVHORT 3280 3 credits  
Landscape Construction  
The principles and practices for construction and installation of various landscape features in the urban environment will be introduced. Topics will focus on the identification and application of materials for landscape construction in the urban environment. Emphasis will be placed on the use of appropriate safety practices, construction of structures associated with landscape projects, and pricing and bidding techniques.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: AGSCI 1240 or ENVHORT 1320 or BIOLOGY 1350 or consent of instructor

ENVHORT 3300 Fruit and Vegetable Production  
The basic principles and practices involved in the production and marketing of temperate zone vegetables, tree fruits, and small fruits.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: AGSCI 1240 or ENVHORT 1320 or SCSCI 1260 or BIOLOGY 1350 or consent of instructor

ENVHORT 3310 1 credit  
Soils, Crops and Environmental Horticulture Seminar  
Review of current literature.  
Components: Seminar  
Cross Offering: SCSCI 3310  
Prereqs/Coreqs: P: AGSCI 1240 or ENVHORT 1320 or SCSCI 1260 or BIOLOGY 1350 or consent of instructor

ENVHORT 3320 3 credits  
Landscape Management  
The theories and practices that support horticultural principles as applied to the management of plants and landscapes in the Midwest will be discussed. Topics include landscape design and grounds management, pruning, irrigation and nutrient management, integrated pest management as well as marketing landscape services, and estimating and preparing job bids.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: ENVHORT 2280 or consent of instructor

ENVHORT 3360 3 credits  
Greenhouse Operation and Management  
The basic principles and practices involved in the production and marketing of commercial greenhouse flower crops, foliage plants, and bedding plants.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: AGSCI 1240 or ENVHORT 1320 or SCSCI 1260 or BIOLOGY 1350 or consent of instructor

ENVHORT 3370 1–3 credits  
Undergraduate Research in Environmental Horticulture  
Students conduct research projects with faculty in Environmental Horticulture or Plant Biotechnology.  
Components: Independent Study  
Prereqs/Coreqs: P: ENVHORT 1320 and consent of instructor

ENVHORT 3400 1–3 credits  
Special Topics in Environmental Horticulture  
Discussion of contemporary topics relevant to the field of Environmental Horticulture.  
Components: Independent Study  
Prereqs/Coreqs: P: ENVHORT 1320 and consent of instructor

237
ENHORT 4260 3 credits
Interior Plants
This course discusses the basics of interior plant culture including the important foliage and flowering plant species used in interior plantscapes, common propagation and production techniques, plant quality evaluation plus design, installation and maintenance of plants in interior settings.

Components: Laboratory, Class
Prereqs/Coreqs: P: AGSCI 1240 or ENHORT 1320 or BIOLOGY 1350 or consent of instructor

ENHORT 4270 3 credits
Advanced Landscape Design
Landscape design concepts and trends over time will be discussed with an emphasis on significant figures and works. Topics will focus on incorporation of functional and sustainable landscape design within the context of the traditional and modern landscape. Emphasis will be placed on the application, use, and realization of computer aided design software.

Components: Laboratory, Class
Prereqs/Coreqs: P: ENHORT 3270 or consent of instructor

ENHORT 4580 3–6 credits
Environmental Horticulture Internship
Supervised experiential learning opportunities in cooperation with businesses and public agencies related to environmental horticulture.

Components: Field Studies
Prereqs/Coreqs: P: 45 credits completed or IP and 12 credits of ENHORT completed or IP and good standing with approval of Internship Coordinator.

ESL AS A SECOND LANGUAGE

ESL 131 3 credits
Intermediate Listening and Speaking
Focuses on listening and speaking skills needed for oral communication in a range of practical contexts with special attention given to oral communication strategies. This course enables students to participate in oral communication about common topics with confidence and with decent fluency and accuracy.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 132 3 credits
Intermediate Reading and Vocabulary
Teaches reading strategies such as skimming, scanning, making inferences, identifying main ideas and supporting details, and using discourse markers to aid comprehension. Reading assignments and vocabulary activities enable students to develop their ability to read authentic materials on common topics for different purposes.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 133 3 credits
Intermediate Writing and Grammar
Focuses on general characteristics of good writing and elements of a writing process; teaches intermediate-level grammar with special attention to grammatical errors in students' writing. This course enables students to write short essays about topics of interest with decent fluency and accuracy.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 134 3 credits
U.S. Culture
Focuses on various aspects of U.S. culture such as everyday life, living styles, holidays and festivals, traditions, sports culture, pop culture, behavioral norms, cultural expectations, values, beliefs, and diversity. This course may provide students with field trip opportunities that enhance their practical understanding of U.S. culture.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 135 3 credits
Special Topics for Intermediate Level
Accommodates individual needs of Intermediate Level students enrolled in the English Language Program. This course aims to help students attain Intermediate Level by focusing on improving their area(s) of weakness, for example, grammar, vocabulary, English skills, idioms, and slang.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 141 3 credits
Advanced Listening and Speaking
Develops students' abilities to engage in sustained oral communication in a variety of social contexts and to comprehend authentic listening materials from different sources. This course helps students communicate effectively about general topics in both formal and familiar contexts with a strong awareness of audience and purpose.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 142 3 credits
Advanced Reading and Vocabulary
Helps students become successful readers through familiarizing them with different types of written discourse, expanding their vocabulary, and reinforcing effective reading strategies. This course incorporates both intensive and extensive reading to improve students' ability to read authentic materials effectively and efficiently.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission
ESL 143

Advanced Writing and Grammar
3 credits
Prepares students for college-level essays with emphasis on writing strategies and every stage of the writing process; teaches advanced grammar with special attention to grammatical errors in students’ writing. Students learn to write college-level essays about topics of interest with an awareness of audience and purpose.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 144

Topics in U.S. Higher Education
3 credits
Introduces students to U.S. higher education, majors of interest, and a range of topics that are typically covered in undergraduate general education courses. General education topics may include, but are not limited to, fine arts, literature, world civilization, history of the United States, U.S. government and politics, gender and ethnicity, psychology, sociology, human geography, and biology.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 145

Special Topics for Advanced I Level
3 credits
Accommodates individual needs of Advanced Level students enrolled in the English Language Program. This course aims to help students attain Advanced Level by focusing on improving their area(s) of weakness, for example, vocabulary, English skills, idioms, and slang.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 151

Academic Listening and Note-taking
3 credits
Develops students’ ability to comprehend academic lectures and take effective notes of academic lectures. Students develop familiarity with the discourse of academic lectures, refine note-taking strategies, and expand their understanding of academic topics as well as content-based vocabulary.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 152

Academic Speaking
3 credits
Develops students’ ability to speak effectively in a variety of academic contexts. This course introduces students to the fundamental aspects of public speaking, improves their speaking skills for academic purposes, and expand their understanding of academic topics through oral communication.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 153

Academic Reading and Writing
3 credits
Prepares students for college-level reading and writing challenges with emphasis on critical reading strategies, basic research paper writing skills, and essay exam strategies. Students learn the basics of writing source-based papers-researching, evaluating, synthesizing, summarizing, paraphrasing, quoting and documenting.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ESL 155

Special Topics for Advanced II/Bridging Level
1–3 credits
Accommodates individual needs of Advanced II/Bridging Level students enrolled in the English Language Program. This course focuses on improving a student’s area(s) of weakness for college-level studies, for example, grammar, academic vocabulary, academic English skills, and academic topics. A student may register for one to three ESL credits in a given semester.

Components: Class
Prereqs/Coreqs: Must be in ELP to enroll or special permission

ETHNIC STUDIES

ETHNSTDY 1030

Race, Gender, and Class
3 credits
An examination of the concepts of race, gender, and class in the United States as these influences are related historically to form a matrix that then serves as a comprehensive basis for understanding the contemporary American society.

Components: Class
GE: Ethnic Studies, Gender Studies

ETHNSTDY 2050

Native American Music
3 credits
This course is designed to provide students with an introductory overview of American Indian Music. Its purpose is to promote understanding of the culture’s experiences through the study of both traditional and popular American Indian music, such as powwows, songs, flute music, and popular/classical artists. The awareness gained will be used to analyze social issues of identity, self-representation, authenticity, appropriation, sovereignty, and federal assimilation policies with the aim of guiding students toward a thoughtful perspective that challenges traditional and romanticized views of American Indian culture. By engaging with a culture distinct from their own, and gaining an understanding of the complex relationship of history, politics, beliefs, and musical systems contained therein, students will be charged to consider multiple perspectives and become more self-aware. Additionally, the course seeks to expose students to the evolution and complexities of the processes of ethnomusicology.

Components: Class
Cross Offering: MUSIC 2050
GE: Ethnic Studies, Fine Arts
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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Components</th>
<th>Cross Offering</th>
<th>Prereqs/Coreqs</th>
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<tbody>
<tr>
<td>ETHNSTDY 2130</td>
<td>3</td>
<td><strong>The Native American Experience</strong></td>
<td>&quot;The Native American Experience&quot; is an examination of the indigenous peoples of North America with particular emphasis on the area now called the United States.</td>
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<td><strong>GE:</strong> Ethnic Studies, Humanities</td>
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<tr>
<td>ETHNSTDY 2200</td>
<td>3</td>
<td><strong>Introduction to Ethnic Studies</strong></td>
<td>An examination of the concepts, issues and experience of People of Color in the U.S. with emphasis on the historical and contemporary interaction of race, gender, and class within and external to communities of color.</td>
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<td><strong>GE:</strong> Ethnic Studies</td>
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<td>ETHNSTDY 2230</td>
<td>3</td>
<td><strong>Black Experience in the U.S.</strong></td>
<td>The course will examine the development of Black culture in the U.S. and how slavery, social and political structures in the U.S. influenced the development of Black culture. It will also focus on various accounts of the nature of racial ideology, and the construction of racial identities.</td>
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<td>ETHNSTDY 2730</td>
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<td><strong>Art History IV: Ethnic Art in the United States</strong></td>
<td>Course explores influences of a variety of cultures on art of present-day America. The focus is on the art of Africa, Mexico and Native America and on contemporary artists whose work grows out of those and other traditions.</td>
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<td><strong>GE:</strong> Ethnic Studies, Fine Arts</td>
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<tr>
<td>ETHNSTDY 2750</td>
<td>3</td>
<td><strong>Native American Art</strong></td>
<td>Art of various culture groups of American Indians, ranging from the Inuit of the far north to tribes and nations of the southwest. Ancient and traditional art forms will be studied as well as history of art in times of culture contact and conflict, continuing through work created by contemporary tribal artists informed by those traditions.</td>
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<td>ETHNSTDY 2830</td>
<td>3</td>
<td><strong>Ethnicity, Race and Crime</strong></td>
<td>A study of the correlation between ethnicity, race, crime and criminality in the United States. This course explores the interrelatedness of ethnicity, race, criminal law, and the sanctioning of criminal behavior in the United States.</td>
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<td>CRIMLJUS 2830</td>
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<td>ETHNSTDY 2930</td>
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<td><strong>Minority Women Writers of the United States</strong></td>
<td>Literature written by Native-American women, African-American women, Latina-American women, and Asian-American women. Includes investigation of historical and cultural backgrounds as well as literary traditions of minority women of the United States. Students will read authors such as Alice Walker, Toni Morrison, Maya Angelou, Maxine Hong Kingston, Sandra Cisneros, Louise Erdrich, Leslie Marmon Silko, and others.</td>
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<td>ENGLISH 2930</td>
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<td>AND WOMGENDR 2930</td>
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<td><strong>GE:</strong> Ethnic Studies, Gender Studies</td>
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<td>ETHNSTDY 2940</td>
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<td><strong>The Political Economy of Race, Gender and Ethnicity</strong></td>
<td>This course uses economic principles to analyze salient issues involving people of color, women, and ethnic minorities. The focus is interdisciplinary, drawing from the fields of business, political science, and others. Pertinent principles and concepts are used to analyze causes and effects of the changing composition of U.S. families, to examine the nature and extent of discrimination within the U.S. economy, and to understand why issues involving race, ethnicity, and gender are of concern to us both individually and collectively.</td>
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<td><strong>GE:</strong> Ethnic Studies, Gender Studies</td>
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<td>ETHNSTDY 3010</td>
<td>3</td>
<td><strong>Race, Gender, and United States Labor History</strong></td>
<td>Social, cultural, and economic history of American working people from the colonial period to the present.</td>
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<td><strong>Prereqs/Coreqs:</strong> P: HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
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<td>ETHNSTDY 3230</td>
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<td><strong>Human Relations</strong></td>
<td>Social stratification based upon race, gender, social class, nationality, and cultural differences. Prejudice and discrimination are analyzed and the causes of both are studied. Using cross-cultural comparisons, students are helped to gain a better understanding of the forces that promote conflict and those that promote accommodation or harmony. The role of textbook and literature materials in promoting or reducing race and ethnic hostility is analyzed through study of both texts and literature.</td>
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<td><strong>Cross Offering:</strong> SOCIOLOGY 3230</td>
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<td><strong>Prereqs/Coreqs:</strong> P: SOCIOLOGY 1030</td>
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ETHNSTDY 3240  3 credits
African-American History 1619 to Present
The historical experience of African-Americans since 1619.
Components: Class
Cross Offering: HISTORY 3240
GE: Ethnic Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430
or consent of instructor or department chair

ETHNSTDY 3340  3 credits
Management, Gender & Race
This course reviews the changing nature of management and
explains why gender and race/ethnicity have become
important concerns of business. It examines the status of
women and people of color in managerial or administrative
positions and discusses socialization processes, stereotypes,
equal employment opportunity laws, diversity management,
illegal harassment, and power in organizations. Networking,
mentoring, work/life balance, and career planning also are
addressed.
Components: Class
Cross Offering: BUSADMIN 3340 AND WOMGENDR 3340
GE: Ethnic Studies, Gender Studies
Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500 or junior standing

ETHNSTDY 3410  3 credits
Chicano Literature
An examination of representative texts from various Chicana/
Chicano writers, covering a range of genres and generations.
There will be an emphasis on the relationship between
literary production and historical context, in particular, the
involvement of the writers in the social and political conflicts
affecting the Chicano community.
Components: Class
Cross Offering: ENGLISH 3410
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3630  3 credits
Ethnic and Gender Equity in Education
To increase an appreciation, understanding, and awareness of
ethnic and gender equity issues in the educational
process and in society. The student will view equity issues
through research, historical, philosophical, sociological, and
psychological perspectives and the implications that each
arena has on the lives of all of us. (Field experience 25 hours)
Components: Discussion, Class
Cross Offering: TEACHING 3630, WOMGENDR 3630
GE: Ethnic Studies, Gender Studies

ETHNSTDY 3720  3 credits
Ethnic Rights and Politics
The course examines changing patterns of ethnic, gender and
race relations; legislative and judicial developments affecting
civil rights; political movements, political, social and economic
discrimination; the judicial system and legal protection for civil
rights and the status and circumstances of women and other
minorities.
Components: Class
Cross Offering: POLISCI 3730
GE: Ethnic Studies, Social Sciences
Prereqs/Coreqs: P: POLISCI 1230 or consent of
instructor

ETHNSTDY 3730  3 credits
Black Literature in America
A survey of African American literature beginning in the
ante bellum period and continuing to the present, including
oral forms (folk tales and spirituals), novels, poetry, drama,
autobiography, and other selected non-fiction.
Components: Class
Cross Offering: ENGLISH 3730
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3740  3 credits
Asian American Literature
A survey of Asian-American literature beginning in the early
1900s and continuing to present times. Includes works
of fiction, autobiography, poetry, and drama. Focuses on
writers from different literary and oral traditions including (but
not limited to) Mandarin Chinese, Japanese, Thai, Hmong,
Vietnamese, and Indian, and examines the impact of family,
culture, and gender both within these traditions and between
a particular tradition and U.S. popular culture.
Components: Class
Cross Offering: ENGLISH 3740
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3750  3 credits
American Literature of Ethnicity and Immigration
An examination of literature from a variety of U.S. “racial”
and “ethnic” groups, including African-, Italian-, Mexican-
Jewish-, Asian-, and Native-American. Emphasis will be
placed on the meanings of “race” and “ethnicity,” the
effects of immigration, and the impact of gender in this
literature.
Components: Class
Cross Offering: ENGLISH 3750
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3760  3 credits
Wisconsin Indian Literature
An exploration of Wisconsin Indian literatures from the oral
tradition to the present; texts studied will include epics,
legends, poetry, novels, and selected non-fiction, including
such writers as Mountain Wolf Woman, Louise Erdrich, and
Susan Power.
Components: Class
Cross Offering: ENGLISH 3760
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3830  3 credits
Black Women and Feminism in the U.S.
An interdisciplinary examination of the historical and
contemporary relationship between black women in the
United States and the feminist movement. Authors discussed
may include Frances Harper, Ida Wells-Barnett, bell hooks,
Audre Lorde, and others.
Components: Class
Cross Offering: WOMGENDR 3830
GE: Ethnic Studies, Gender Studies
Prereqs/Coreqs: sophomore standing to enroll in this
class
FORENSIC INVESTIGATION

FORENSIC 1320 3 credits
Introduction to Crime Scene Investigation
This course delves into various types of technology, techniques and equipment used in crime laboratories, and various types of technology, techniques and equipment used by crime scene technicians at a crime scene. Course also provides an overview for the career of crime scene technicians.
Components: Class
Prereqs/Coreqs: P: FORENSIC 1320

FORENSIC 2320 3 credits
Fingerprint Classification and Development
This course delves into the theoretical and practical applications of fingerprint identification. Course involves developing latent prints from numerous sources in a laboratory setting and at a crime scene. Course also includes rolling fingerprints and fingerprint comparison using automated fingerprint identification systems. Students learn to examine and classify latent prints using the henry alpha - numeric classification system.
Components: Class
Prereqs/Coreqs: P: FORENSIC 1320

FORENSIC 2420 2 credits
Evidence Collection and Preservation
This course covers the methodology associated with the collection and preservation of physical evidence such as hair, fibers, fingerprints, footwear impressions, and blood and biological samples at crime scenes. Chain of custody procedures, recording evidence submissions and managing and maintaining evidence collection storage facilities will also be covered. The course will adhere to a step-by-step training associated with the most current version of the Wisconsin Department of Justice Evidence Collection Handbook, (8th Ed).
Components: Class
Prereqs/Coreqs: P: FORENSIC 1320

FORENSIC 2620 3 credits
Investigative Photography
Investigative Photography is a course designed to familiarize students with the fundamentals of photography and its application to the science and technology of criminal investigation. Students will be expected to achieve a basic knowledge of how to record and document, collect, protect and defend the credibility of evidence with the use of photography.
Components: Class
Prereqs/Coreqs: P: FORENSIC 1320

FORENSIC 3040 4 credits
Crime Scene Processing Techniques
Crime Scene Processing Techniques is a course crafted to familiarize the student with the methodologies and techniques associated with scientific crime scene processing. The student will be expected to achieve a basic knowledge of how to document, collect, preserve, and defend the credibility of evidence. The student will take part in lecture and laboratory components to ensure theoretical understanding and technical application of the material presented.
Components: Laboratory, Class
Prereqs/Coreqs: P: FORENSIC 1320 and FORENSIC 2420 and FORENSIC 2620

FORENSIC 3140 5 credits
Criminalistics
The function and techniques of the application of scientific methods to the evaluation of physical evidence. The course examines the various analytical systems used in the evaluation of physical evidence with a balance between the theoretical framework and practical application in the laboratory.
Components: Laboratory, Class
Prereqs/Coreqs: P: FORENSIC 1320 and FORENSIC 2420 and FORENSIC 3040 with “C-” or better in all and junior standing

FORENSIC 4020 3 credits
Courtroom Testimony and Evidence
This course is intended to give the criminal justice student a fundamental understanding of the trial process including, inter alia, working with the prosecutor, establishing the chain-of-custody of evidence, qualifying an expert, and legal requirements for specific forensic evidence. Although not a pre-law course, this course will provide the student with a working knowledge of the intricacies of trial-related issues of concern to investigators, police officers, and forensic examiners.
Components: Discussion, Class
Prereqs/Coreqs: P: Forensic Investigation major or minor or Criminal Justice major or minor and junior standing

FORENSIC 4500 1-3 credits
Directed Individual Studies
Supervised individual study of a topic selected by the student with staff approval.
Components: Independent Study
Cross Offering: CRIMLJUS 4500
Prereqs/Coreqs: P: FORENSIC 3140 with a “C-” or better, an accumulated GPA of 2.50 and junior standing

FORENSIC 4620 1-3 credits
Current Topics in Forensic Investigation
Current issues in forensic investigation that may not warrant a permanent course. Course content will be announced each time the course is presented.
Components: Independent Study
Prereqs/Coreqs: P: junior standing or consent of instructor

FORENSIC 4720 2-4 credits
Honors Research in Forensic Investigation
The practical application of research to the forensic investigation field. The student will design a complete research project within the framework of a tutorial relationship with a member of the forensic investigation or criminal justice faculty.
Components: Independent Study
Prereqs/Coreqs: P: FORENSIC 3140 with a “C-” or better and junior standing
FORENSIC 4880 8 credits
Internship
Enhancement of the educational experience through placement of a student with a governmental or private agency, emphasis place on integration of criminal justice theory and practice through field observations, practical experience, and extensive report writing, including submission of daily reports, administrative reports, and case reports.
Components: Field Studies
Cross Offering: CRIMLJUS 4880
Prereqs/Coreqs: P: 60 credits plus 12 upper division criminal justice/forensic investigation credits, an accumulated GPA of 2.25 and have passed the department’s writing certification requirement

FORENSIC 4920 3 credits
Forensic Investigation Seminar
Discussion and evaluation of problems in the contemporary criminal justice system; individual research and presentation of findings.
Components: Seminar
Prereqs/Coreqs: P: CRIMLJUS 4030 with a “C-” or better, senior standing and have passed the department’s writing certification requirement

FRENCH
FRENCH 1040 4 credits
Elementary French
Conversation, grammar, reading, writing; emphasis on oral practice, structure, vocabulary; language lab.
Components: Laboratory, Class
GE: Foreign Language

FRENCH 1140 4 credits
Elementary French
Continuation of French 1040; language lab.
Components: Laboratory, Class
GE: Foreign Language
Prereqs/Coreqs: P: FRENCH 1040 or equivalent

FRENCH 2040 4 credits
Intermediate French
Conversation, review of grammar, reading of stories, emphasis on oral practice, French culture; language lab.
Components: Laboratory, Class
GE: Humanities
Prereqs/Coreqs: P: FRENCH 1140 or equivalent

FRENCH 2140 4 credits
Intermediate French
Continuation of French 2040, with emphasis on reading and discussion in French; language lab.
Components: Laboratory, Class
GE: Humanities
Prereqs/Coreqs: P: FRENCH 2040

FRENCH 3000 1–4 credits
Foreign Languages Travel Abroad Seminar
A seminar with emphasis on language, literature and culture. Non-language students may take this course in English translation for credit in humanities but receive no foreign language credit. Students receive from 1 to 4 credits in French or in literature translation for non-language students. Number of credits depends on duration of exposure, the amount of reading, and the quality of written work.
Components: Seminar
GE: Humanities, International Education
Prereqs/Coreqs: P: FRENCH 2040 or equivalent; non-language students should consult the department chairperson

FRENCH 3220 2 credits
Advanced French Grammar and Composition
A broad review of French grammar with an emphasis on practical application through the assignment of various composition topics and other writing activities.
Components: Class
Prereqs/Coreqs: P: FRENCH 2140 or equivalent

FRENCH 3240 2 credits
Advanced French Conversation
This course stresses the development of conversational skills in French at an advanced level, with special emphasis on proper pronunciation and intonation, as well as the correct use of vocabulary and syntax.
Components: Class
Prereqs/Coreqs: P: FRENCH 2140 or equivalent

FRENCH 3530 1–3 credits
Topics in French Literature and Culture
Specific topics dealing with the works of one author, one literary genre or one literary period. Topics may also deal with specific aspects of culture. Due to the limited focus of the course, this course may be taken more than once for credit, provided the content is different.
Components: Class
Prereqs/Coreqs: P: FRENCH 2140 or equivalent

FRENCH 4050 1–4 credits
Supervised Independent Study
For advanced students wishing to acquaint themselves further with French literature, or civilization; discussion and written reports. By special permission of the instructor--number of credits will be determined at the beginning of the course.
Components: Independent Study
Prereqs/Coreqs: P: FRENCH 2140 or equivalent

FRENCH 4060 3 credits
Survey of French Literature and Culture I
An introduction to French history, culture and literature from the Middle Ages through the French Revolution; lecture and discussion in French.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: FRENCH 2140 or equivalent
FRENCH 4160 3 credits
Survey of French Literature and Culture II
Continuation of French 4060, covering the 19th and 20th centuries.
Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: FRENCH 2140 or equivalent

GENERAL ENGINEERING

GENENG 1000 1 credit
Engineering Success Skills
An introductory course which will provide the opportunity for new engineering students to develop and improve their problem-solving ability, computer literacy, and study skills to maximize their chances for success in their college careers and prepare them for subsequent engineering courses. Topics include: making the transition from high school to college; time management; exploration of the engineering disciplines, learning styles, introduction to computer skills including spreadsheets, word processing and presentation software; engineering ethics, and introduction to engineering methods. Eight week course which meets two hours per week.
Components: Class
GE: Entry Level requirement
Prereqs/Coreqs: C: MATH 15

GENENG 1030 1 credit
Introduction to Engineering Projects
An introductory course which will provide the opportunity for new engineering students to explore the UWP engineering programs through seven hands-on engineering modules, representing the seven engineering disciplines at UW-Platteville. Emphasis will be placed on written and oral communication skills, data collection and analysis, computer application skills and group work. Semester course which meets two hours per week.
Components: Class
Prereqs/Coreqs: P: GENENG 1000; C: MATH 1530 or higher or consent of department chair

GENENG 1320 2 credits
Engineering Computer Graphics
Problems relative to points, lines and planes in space; Cartesian coordinates; projection-plane theory; orthographic pictorials; dimensioning; auxiliary views; sections; extensive use of computer-aided design (AutoCAD and solid modeling) including 2D and 3D drawing, editing and enhancing; emphasis on development of the ability to communicate graphically; special emphasis on engineering and computer graphics applications. Two 112 minute classes per week.
Components: Laboratory
Prereqs/Coreqs: P or C: GENENG 1000 and MATH 2530

GENENG 2030 3 credits
Engineering Modeling and Design
An introduction to design tools and practices associated with the design and development of engineering systems. Students will gain experience with solid modeling tools, including part modeling, assembly modeling and the reading and creation of layout drawings. The project portion of the course will focus on “reverse engineering”. Reverse engineering will be used to examine the design of existing systems (objects such as: a fishing reel, a small refrigerator, a hair dryer, and similar), their assembly, and the engineering principles that form the foundation for the product. Students will model these systems and suggest possible design changes that might lead to improvements in form, function, and/or assembly.
Components: Laboratory, Class
Prereqs/Coreqs: C: MATH 2640

GENENG 2130 3 credits
Engineering Mechanics-Statics
Composition, resolution and equilibrium of forces and force systems; analysis of structures; friction; centroids; moment of inertia.
Components: Class
Prereqs/Coreqs: C: MATH 2740 and (C: GENENG 1030 or P: MSNT 1010 and consent of instructor).

GENENG 2220 2 credits
Engineering Mechanics-Dynamics
Kinematics and kinetics of particles and rigid bodies in translation; rotation and general plane motion; Newton’s law, work-energy methods; linear and angular momentum.
Components: Class
Prereqs/Coreqs: P: GENENG 2130 with a grade of “C-” or better

GENENG 2230 3 credits
Engineering Mechanics-Dynamics
Kinematics and kinetics of particles and rigid bodies in translation; rotation and general plane motion; Newton’s law, work-energy and impulse methods; linear and angular momentum; impacts; systems of particles and introduction to 3-D kinetics.
Components: Class
Prereqs/Coreqs: P: GENENG 2130 with a grade of “C-“ or better

GENENG 2340 4 credits
Mechanics of Materials
Simple stress and strain; design and investigation of joints, beams, torsion members and columns; evaluation of shear, moment, slope and deflection of beams and combined stresses.
Components: Laboratory, Class
Prereqs/Coreqs: P: GENENG 2130 with a grade of “C-“ or better
GENENG 2630  
**Basic Thermoscience for Engineers**  
Thermodynamic properties; first and second laws of thermodynamics; ideal gas equation of state; steam properties; properties of incompressible substances; refrigerants; carnot cycle; Rankine cycle; Otto and diesel cycles; refrigeration; conduction and convection heat transfer. Not open to Mechanical Engineering majors.  
**Components:** Class  
**Prereqs/Coreqs:** P: MATH 2840 and PHYSICS 2530 or PHYSICS 2240

GENENG 2820  
**Engineering Economy**  
Application of principles of economic analysis to engineering decision making; time value of money; uniform annual cost; present worth; rate of return; benefit-cost ratio; depreciation; income taxes; inflation.  
**Components:** Class  
**Prereqs/Coreqs:** P: GENENG 1030 and sophomore standing

GENENG 2930  
**Applications of Electrical Engineering**  
Electric circuit analysis techniques; transients; AC analysis; power in AC circuits; transformers; and introduction to three-phase circuits.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: PHYSICS 2640 or PHYSICS 2340; not open to Electrical Engineering majors

GENENG 3000  
**Undergraduate Research in Engineering**  
Introduction to research methods in both interdisciplinary engineering as well as any engineering discipline, literature review, data analysis, and design. A student may register for one to three credits in a given semester.  
**Components:** Research  
**Prereqs/Coreqs:** C: MATH 2740

GEOGRAPHY

GEOGRPHY 1040  
**4 credits**  
**Planet Earth**  
The features of the natural environment (lithosphere, atmosphere and hydroosphere); their character, distribution, origin and relationship with human beings. Principles of environmental conservation are also included. A field trip is required. Not open to students who have had GEOGRPHY 1140 or GEOGRPHY 1240.  
**Components:** Laboratory, Class  
**GE:** Natural Science

GEOGRPHY 1050  
**3 credits**  
**Introduction to Human Geography**  
An introduction to the global distribution of human characteristics. Topics will include population, cultural, agricultural, industrial, economic, political, urban, linguistic and religious geographies. The character, distribution, and origin of these geographies will be examined along with their relationship to each other and the physical environment.  
**Components:** Class  
**GE:** International Education, Social Sciences

GEOGRPHY 1140  
**4 credits**  
**Global Landforms**  
This course is the study of the distribution of landforms across the globe, with consideration of the processes and historical factors that determine these patterns. Lab techniques will include map basics, regional landscapes and field techniques. Field trips are required.  
**Components:** Laboratory, Class  
**GE:** Natural Science

GEOGRPHY 1230  
**3 credits**  
**Survey of Cultural Geography**  
An introduction to the culture of peoples, with a focus on the constructing of culture and the primary components of culture: ethnicity, language, religion, and popular culture. The course concentrates on cross-cultural comparisons in an attempt to broadly describe cultures from around the world.  
**Components:** Class  
**GE:** International Education, Social Sciences

GEOGRPHY 1240  
**4 credits**  
**Weather and Climate**  
Elements and controls of weather and climate; origin, characteristics and distribution of climate and vegetation.  
**Components:** Laboratory, Class  
**GE:** Natural Science

GEOGRPHY 1260  
**1 credit**  
**United States Geography**  
The emphasis in this one credit course is on the cultural and economic geography of the U.S.  
**Components:** Class

GEOGRPHY 1330  
**3 credits**  
**World Regional Geography**  
Geographic understanding of the major regions of the world; emphasis is placed upon human-environmental relationships.  
**Components:** Class  
**GE:** International Education, Social Sciences

GEOGRPHY 1370  
**4 credits**  
**Global Vegetation**  
This course is a survey of the geographical distribution of vegetation types and habitats, with consideration of the environmental and historical factors that determine these patterns. Field and Lab techniques will be introduced.  
**Components:** Laboratory, Class  
**GE:** Natural Science

GEOGRPHY 2230  
**4 credits**  
**Geographic Information Systems: Thematic Mapping**  
Designing and creating geographic and attribute computer databases for the production of maps, including projections, methods of data reduction, and symbologies.  
**Components:** Laboratory, Class
GEOGRPHY 2250  3 credits
Tropical Marine Ecosystems
This course is built around a three week summer field course based at the University of the South Pacific’s Marine Studies Program, taught by experts in their field at UWP and USP. Topics for study will include tropical marine environment, communities, and conservation. There will be several required field excursions.
Components: Class
Cross Offering:  BIOLOGY 2250
Prereqs/Coreqs:  P: one previous course in geography, geology, biology or consent of instructor

GEOGRPHY 3030  3 credits
Economic Geography
Location, aerial variation, functional and spatial interrelationships of the production, exchange, and consumption of goods and services.
Components: Class
GE: International Education, Social Sciences
Prereqs/Coreqs:  P: GEOGRPHY 1330 or consent of the instructor

GEOGRPHY 3120  3 credits
Geography of Wisconsin
A regional approach to the cultural, economic and physical geography of Wisconsin.
Components: Class
Prereqs/Coreqs:  P: GEOGRPHY 1330 or GEOGRPHY 1140 or GEOLOGY 1040 or GEOLOGY 1140

GEOGRPHY 3130  3 credits
Geography of the United States and Canada
A regional approach to the cultural, economic and physical geography of the United States and Canada.
Components: Class
GE: Social Sciences
Prereqs/Coreqs:  P: GEOGRPHY 1230 or GEOGRPHY 1330 or consent of instructor

GEOGRPHY 3170  3 credits
Space, Place, and Gender
An introduction to gender and geography. The role of gender in the study of geography, which is concerned with places, linkages, patterns of flow, locations, landscape, and the social/political/economic production of space.
Components: Discussion, Class
Cross Offering:  WOMGENDR 3170
GE: Gender Studies

GEOGRPHY 3230  4 credits
Introduction to Geographic Information Systems
An introduction to core GIS concepts including map projections and coordinate systems, raster and vector data models, digital data sources, digitizing, map design and production, attribute data, data manipulation, and fundamental spatial analysis.
Components: Laboratory, Class

GEOGRPHY 3330  9 credits
Environmental Conservation
The relationship of humans and the natural environment. Topics include environmental world views, the effects of ecosystem disruption, and use and misuse of natural resources.
Components: Class
GE: Social Sciences
Prereqs/Coreqs:  P: junior standing or consent of instructor

GEOGRPHY 3340  4 credits
Biogeography
This course examines Earth’s biosphere, which extends from the seafloor, to about 5 miles into the atmosphere. Students will study the biosphere, the distribution of biota worldwide, both past and present, and the factors that determine these patterns. Topics discussed include evolution, extinction, dispersal, altitudinal zonation, zoogeographic provinces, regional climate, vegetation structure, ecological succession, species richness, global climate change, biomes, and island biogeography.
Components: Laboratory, Class
Prereqs/Coreqs:  P: GEOGRPHY 1040 or GEOGRPHY 1370 or BIOLOGY 1150 or BIOLOGY 1650 or BIOLOGY 1750 or consent of instructor

GEOGRPHY 3350  3 credits
Geography and Development of the Middle East Geography
The geographic region of the Middle East is comprehensively studied, both regionally and topically. Topics include those both from physical and human geography. Specifically, it examines why countries that comprise the Middle East are among the most contentious in the world today. In addition, we will examine variation in levels of development among various Middle Eastern peoples, countries and regions.
Components: Discussion, Class
GE: International Education, Social Sciences
Prereqs/Coreqs:  P: GEOGRPHY 1330 or consent of the instructor

GEOGRPHY 3430  3 credits
Geography of Africa
The geographic region of Africa is comprehensively studied, both regionally and topically. Topics include those from both physical and human geography.
Components: Class
GE: International Education, Social Sciences
Prereqs/Coreqs:  P: a 1000-level course in geography or consent of instructor

GEOGRPHY 3520  3 credits
Remote Sensing and Photogrammetry
An introduction to the theory and interpretation of remote sensing imagery, with emphasis on photographic, thermal, and microwave remote sensing systems. Stereo pair photos from aircraft will be used to illustrate geographic and environmental applications of remote sensing, such as their use in mapping and measuring features on the earth’s surface.
Components: Laboratory, Class
Prereqs/Coreqs:  P: a 1000-level course in geology or geography or consent of the instructor
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<th>Course Code</th>
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| GEOGRPHY 3530 | 2–3 | Topics in Regional Geography | Selected world regions are studied in a traditional regional or topical format.  
Components: Class  
GE: International Education, Social Sciences |
| GEOGRPHY 3550 | 4 | Process Geomorphology | This is an advanced course about the processes that shape the Earth surface. Topics of study will include the evolution and distribution of Earth’s surface features (landforms) and the processes that have shaped them. Lab work will include field, laboratory and map analysis of landforms and sediments.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: GEOGRPHY 1040, GEOGRPHY 1140, GEOLOGY 1140 or consent of instructor |
| GEOGRPHY 3630 | 3 | Geography of Latin America | The geographic region of Latin America is comprehensively studied, both regionally and topically. Topics include those from both physical and human geography.  
Components: Class  
GE: International Education, Social Sciences  
Prereqs/Coreqs: P: a 1000-level course in geography or consent of instructor |
| GEOGRPHY 3720 | 3 | Geographic Information Systems: Digital Image Analysis | Theory and techniques for digital image processing (DIP) of digital earth resources satellite imagery and incorporation into geographic information systems. The course will emphasize visual interpretation and the use of statistical operations on the computer for automatic interpretation and enhancement.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: GEOGRPHY 2230 or GEOGRPHY 3230 or 3 credits of a computer-related course |
| GEOGRPHY 3730 | 3 | Geography of Europe | The geographic region of Europe, including Russia, the Baltic States, Ukraine, Belarus, and Moldova, is comprehensively studied, both regionally and topically. Topics include those from both physical and human geography.  
Components: Class  
GE: International Education, Social Sciences  
Prereqs/Coreqs: P: a 1000-level course in geography or consent of instructor |
| GEOGRPHY 3750 | 1–4 | Field Geography of the Western United States | This course is built around an extended field experience in selected regions of the western United States. Topics for study will include physical, human, and environmental geography.  
Components: Discussion, Class  
Prereqs/Coreqs: P: a previous course in geography or consent of instructor |
| GEOGRPHY 3850 | 3 | Geography of the National Parks | This course examines the National Park System (NPS) of the United States from a geographic perspective. The course will use the NPS as a lens through which to examine issues of geographic importance, including those from physical, human, and environmental geography. There will be a required field trip.  
Components: Discussion, Class  
Prereqs/Coreqs: P: a previous course in geography or consent of instructor |
| GEOGRPHY 3930 | 3 | Geography of Asia | A regional and topical comprehensive study of the geographic regions of South Asia, Southeast Asia, and East Asia. Topics include those from both physical and human geography.  
Components: Class  
GE: International Education, Social Sciences  
Prereqs/Coreqs: P: a 1000-level course in geography or consent of instructor |
| GEOGRPHY 3960 | 1–6 | Geography of Japan | A detailed study of Japan, featuring its physical, cultural, human, demographic, and political geography.  
The heart of the course will be a three- or six-week field study in Japan. During the first three weeks students travel from Hokkaido to Kyushu. Students who only participate in this section can sign up for 1-3 hours of credit. Students signing up for the six-week session will complete the three-week travel section and then spend three more weeks in Kumamoto Prefecture. Students signing up for the six-week session can sign up for 1-6 hours of credit. The requirements for the three- and six-week courses are the same for the first three weeks. The six-week course also requires an original field research assignment.  
Components: Field Studies  
GE: Social Sciences, International Education  
Prereqs/Coreqs: P: consent of instructor |
| GEOGRPHY 4030 | 3 | Geography Seminar | Development of geographic thought, library research techniques, organization and presentation of research data.  
Components: Seminar  
Prereqs/Coreqs: P: at least junior standing and geography major or minor |
| GEOGRPHY 4120 | 2–3 | Topical Seminar | A specific geographic topic within a seminar format.  
Components: Laboratory, Seminar  
Prereqs/Coreqs: P: junior standing |
| GEOGRPHY 4150 | 3 | Climate Change | This course will cover the current and past climate changes that impact the Earth. An emphasis will be placed on how current climate changes are impacting people.  
Components: Class  
Prereqs/Coreqs: P: any physical geography course or consent of instructor |
GEOGRPHY 4230  3 credits
Political Geography
The interrelationships of earth and state, the geographical explanation of international relations, an examination of the geopolitics of several countries.
 Components: Class
 GE: International Education, Social Sciences
 Prereqs/Coreqs: P: 3 credits of geography

GEOGRPHY 4330  4 credits
Advanced GIS & GPS
An expansion of core GIS concepts to include advanced data collection methods and spatial analysis with a particular focus on mobile GIS (field GPS data collection) and advanced analysis in the raster data model.
 Components: Laboratory, Class
 Prereqs/Coreqs: P: GEOGRPHY 2230 or GEOGRPHY 3230 or CIVILENG 4630 or RECLAM 3940

GEOGRPHY 4350  3 credits
Gender Relations in Cross-Cultural Perspective
This course examines how people’s gender roles are defined across cultures. Specifically we examine implications of these definitions with respect to various issues such as division of labor within households, gender differentiated health issues, domestic violence, gender and politics. We address these issues at a variety of geographic scales ranging from household to the national and global. Critical thinking, analysis, research and writing skills will also be developed.
 Components: Discussion, Class
 GE: Gender Studies
 Prereqs/Coreqs: P: GEOGRPHY 3170 or consent of instructor

GEOGRPHY 4530  3 credits
Historical Geography of the United States
Recreation of past geographies; changes through time in the physical and cultural environment.
 Components: Class
 Prereqs/Coreqs: P: 3 credits in geography or consent of instructor

GEOGRPHY 4660  1–8 credits
Cooperative Field Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement learning contract) between the student and the department.
 Components: Field Studies
 Prereqs/Coreqs: P: consent of department chair

GEOGRPHY 4760  1–8 credits
Geography Field Study
Field trip of one to eight weeks duration to study regional or systematic geography firsthand in North America or overseas.
 Components: Field Studies

GEOGRPHY 4840  4 credits
Soil Geomorphology
Soil development emphasizing the relationship to the landscape throughout the Quaternary. Field trips are required.
 Components: Laboratory, Class
 Prereqs/Coreqs: P: GEOGRPHY 1040 or GEOGRPHY 1140 or GEOLOGY 1140 or consent of instructor

GEOGRPHY 4920  1–3 credits
Independent Study in Geography
Independent work on a particular topic or problem supervised by a staff member.
 Components: Independent Study
 Prereqs/Coreqs: P: consent of department chair

GEOLGY

GEOLGY 1140  4 credits
Physical Geology
The physical and chemical earth, materials of the earth’s crust and interior, their compositions, distributions, origins, and the processes that modify them; minerals and rocks; interpretation of topographic maps and aerial photographs; field trips.
 Components: Laboratory, Class
 GE: Natural Science

GEOLGY 1240  4 credits
Historical Geology
The formation and development of the earth and the development of life through geologic time. Laboratory includes review of minerals and rocks; elements of stratigraphy; paleontology, and field trips.
 Components: Laboratory, Class
 GE: Natural Science

GEOLGY 3040  4 credits
Mineralogy and Lithology
A condensed course on earth materials for majors in science and engineering. A paragenetic approach is used to study minerals with associated rocks. Laboratory emphasizes identification, classification. Field trips and research paper and presentation required.
 Components: Laboratory, Class
 Prereqs/Coreqs: P: GEOLOGY 1140 or GEOLOGY 3130

GEOLGY 3130  3 credits
Engineering Geology
Geology applied to the solution of a variety of problems in the field of civil engineering; field trips. Morphology, evolutionary trends and stratigraphic significance of fossil invertebrates; some micropaleontology; field trips.
 Components: Laboratory, Class
 Prereqs/Coreqs: P: CHEMSTRY 1240 and CHEMSTRY 1450

GEOLGY 3430  3 credits
Hydrogeology
Applied geological concepts and theory of water resources, including both groundwater and surface water. Field trips. Research paper and presentation required.
 Components: Class
 Prereqs/Coreqs: P: GEOLOGY 1140 or GEOLOGY 3130; CHEMSTRY 1240 is recommended
ECONOMIC 4030  3 credits
Economic Geology
The origin and geology of mineral deposits, energy resources, precious metals and gems, and agricultural and construction materials derived from geologic sources.
Components: Laboratory, Class
Prereqs/Coreqs: P: GEOLOGY 1140 or GEOLOGY 3130; GEOLOGY 3040 is recommended

GEOLOGY 4660  1–8 credits
Cooperative Field Experience
Components: Field Studies
Prereqs/Coreqs: P: consent of department chair

GEOLOGY 4920  1–3 credits
Individual Research in Geology
Supervised research by individual students; written report required.
Components: Independent Study
Prereqs/Coreqs: P: consent of department chair

GERMAN

GERMAN 1240  4 credits
Elementary German
Conversation, grammar, reading and writing; emphasis upon oral practice in the language laboratory.
Components: Laboratory, Class
GE: Foreign Language

GERMAN 1340  4 credits
Elementary German
Continuation of German 1240; language lab.
Components: Laboratory, Class
GE: Foreign Language
Prereqs/Coreqs: P: GERMAN 1240 or equivalent

GERMAN 2240  4 credits
Intermediate German
Intensive and extensive reading of German plays, novels and short stories; review of grammar; emphasis on oral practice in the language lab.
Components: Laboratory, Class
GE: Humanities, International Education
Prereqs/Coreqs: P: GERMAN 1340 or equivalent

GERMAN 2340  4 credits
Intermediate German
Continuation of German 2240; language lab.
Components: Laboratory, Class
GE: Humanities, International Education
Prereqs/Coreqs: P: GERMAN 2240 or equivalent

GERMAN 3000  1–4 credits
Foreign Languages Travel Abroad Seminar
A seminar with emphasis on language, literature and culture. Non-language students may take this course in English translation for credit in the humanities but receive no foreign language credit. Students receive from one to four credits in German or in literature in translation for non-language students. Number of credits depends on the duration of the exposure, the amount of reading, and the quality of written work.
Components: Seminar
GE: Humanities, International Education
Prereqs/Coreqs: P: GERMAN 2240 or equivalent; non-language students should consult the department chairperson

GERMAN 3220  2 credits
German Conversation and Composition I
This course stresses basic German conversation as reflected in readings in the humanities (short stories, essays, social and cultural portrayals of the German world, etc.) and in real-life situations.
Components: Class
Prereqs/Coreqs: P: GERMAN 2340 or equivalent

GERMAN 3320  2 credits
German Conversation and Composition II
This course stresses basic German conversation as reflected in readings in the humanities (short stories, essays, social and cultural portrayals of the German world, etc.) and in real-life situations.
Components: Class
Prereqs/Coreqs: P: GERMAN 2340 or equivalent

GERMAN 3330  3 credits
German Literature of the 20th Century
Contemporary literary movements: representative works in the novel, drama and poetry; lectures and discussion in German.
Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: GERMAN 2340 or equivalent

GERMAN 3430  3 credits
German Literature of the 19th Century
Representative works from late Romanticism and Realism; special emphasis on the novelette of German as well as Austrian and Swiss authors. Lectures and discussions in German.
Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: GERMAN 2340 or equivalent

GERMAN 3530  3 credits
German Civilization
The political, social, intellectual, artistic and literary development of the German nation from its origin to the present.
Components: Class
GE: Humanities, International Education
GERMAN 4220  
**Phonetics**
Theory of German sounds with practical training in pronunciation. Oral practice in language laboratory. Required for a major or teaching minor in German.  
*Components:* Laboratory, Class  
*Prereqs/Coreqs:* P: GERMAN 2340 or equivalent

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GERMAN 4250  
**1–4 credits**  
**Supervised Independent Study**
For advanced students who wish to acquaint themselves further with German literature, civilization or linguistics; thesis type reports and examination; by special permission--number of credits to be determined at the beginning of the course.  
*Components:* Independent Study  
*Prereqs/Coreqs:* P: GERMAN 2340 or equivalent

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**HEALTH AND HUMAN PERFORMANCE**

HHP 1000  
**Fitness Assessment and Management**
1 credit  
This lecture/lab course covers health topics and activities designed to assist students in assessing their health and fitness level and understand what lifestyle modifications are necessary to enhance personal wellness.  
*Components:* Laboratory, Class  
*GE:* Health & Human Performance-Wellness

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HHP 1020  
**Criminal Justice Fitness**
2 credits  
The class integrates the understanding of the demands placed on law enforcement officers with mental and physical self-defense measures. The course builds student knowledge, self-confidence, and physical ability in handling law enforcement related scenarios.  
*Components:* Class  
*GE:* HHP-Activity

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HHP 1040  
**Canoeing, Kayaking, and/or Rafting in Wisconsin**
1 credit  
This course will develop an appreciation for, and develop basic skills in canoeing, kayaking, and/or rafting skills to the participants and if pursued will promote a lifetime of fitness and enjoyment. This course will require a one day on campus teaching and skills instruction/training and culminate with a Friday-Sunday off campus trip to a Wisconsin river determined by the instructor based on river conditions and camping availability.  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1110  
**Weight Training**
1 credit  
Health and Human Performance activity.  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1120  
**Aerobic Weight Training**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1130  
**Badminton**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1140  
**Basketball**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1200  
**Self Defense**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1210  
**Golf**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1230  
**Jogging/Walking**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1250  
**Relaxation**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1280  
**Personal Conditioning**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1300  
**Personal Fitness**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1310  
**Scuba Diving**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1340  
**Soccer**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity

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HHP 1370  
**Dance Tech/Practice (Ballroom, Latin, Country)**
1 credit  
*Components:* Laboratory  
*GE:* HHP-Activity
HHP 1390  
**Racquet Sports**  
The purpose of this activity class is to provide the student with the basic knowledge and fundamental skills for success at the beginning level of several racquet sports. Throughout the course of the semester, the student will learn how to play a variety of racquet sports to develop and maintain a health-enhancing level of personal fitness. Additionally, the rules, etiquette, and strategies of the games will be taught to enhance participation.  
**Components:** Laboratory  
**GE:** HHP-Activity  

HHP 1400  
**Fitness Assessment and Awareness/Activity**  
**Components:** Laboratory  
**GE:** HHP-Activity  

HHP 1410  
**Swimming**  
**Components:** Laboratory  
**GE:** HHP-Activity  

HHP 1430  
**Tennis**  
**Components:** Laboratory  
**GE:** HHP-Activity  

HHP 1440  
**Volleyball**  
**Components:** Laboratory  
**GE:** HHP-Activity  

HHP 1450  
**Wallyball/Volleyball**  
**Components:** Laboratory  
**GE:** HHP-Activity  

HHP 1460  
**Yoga/Pilates**  
Through the course of the semester the student will learn how to use various Yoga and Pilates exercises to develop and maintain a health enhancing level of personal fitness.  
**Components:** Laboratory  
**GE:** HHP-Activity  

HHP 1530  
**Bowling**  
**Components:** Laboratory  
**GE:** HHP-Activity  

HHP 1630  
**Self-Defense**  
**Components:** Laboratory  

HHP 1640  
**Downhill Skiing**  
**Components:** Laboratory  
**GE:** HHP-Activity  

HHP 1720  
**Intermediate Weight Training**  
**Components:** Laboratory  

HHP 2010  
**Aerobics/Hydroaerobics**  
**Components:** Laboratory  

HHP 2020  
**First Aid/Accident Prevention/Community CPR**  
Instruction and demonstration in the principles of first aid and accident prevention, Red Cross and CPR instruction.  
**Components:** Class  

HHP 2030  
**Health Education**  
To assist students toward a better understanding of personal and community health problems and of the agencies with which they may work.  
**Components:** Class  

HHP 2040  
**Methods in Health, Nutrition, and Physical Education**  
The purpose of this class is to provide introductory content regarding health, nutrition, and physical education. Pedagogical methods and practical teaching experiences provided.  
**Components:** Class  
**Prereqs/Coreqs:** P: TEACHING 1230  

HHP 2080  
**Movement Education**  
During this course, students will learn how to teach and spot for the basic level of gymnastics for K-12. Students will also learn how to teach musical structure and basic dance moves for a variety of folk and social dances for K-12.  
**Components:** Class  

HHP 2320  
**Introduction to Physical Education and Health Promotion**  
Introduction to skills basic to the teaching of physical education; career orientation; teaching. Physical education majors, minors and concentrations in athletic coaching students only.  
**Components:** Class  

HHP 2330  
**Adventure Education**  
This course presents the content, method, and safety of cooperative and initiative games. Teacher candidates will learn to use and implement a ropes course as a classroom for different age groups and diverse populations. Required for all PHYSED majors.  
**Components:** Class  

HHP 2410  
**Team Sports**  
During this course physical education majors will develop an understanding of the teaching methods, cues and assessments used in teaching team sports to middle level and high school students, as they relate to the standards of National Association for Sport and Physical Education (NASPE). Examples of individual sports that could be covered: baseball/softball, basketball, football, floor hockey, lacrosse, soccer, volleyball, water polo.  
**Components:** Class  

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HHP 2430
Adventure Education Practicum
This practicum requires the physical education teacher candidates to assist in the facilitation of groups who attend the UWPlatteville ropes and challenge course. Teacher candidates will design and facilitate a sequential experience for the participants, and become proficient in facilitating, belaying, safety, and processing techniques. This practicum will allow candidates to practice and improve their teaching techniques with a variety of populations.
Components: Class

HHP 2510
Individual Sports
During this course physical education majors will develop an understanding of the teaching methods, cues and assessments used in teaching individual sports to middle level and high school students, as they relate to the standards of National Association for Sport and Physical Education (NASPE). Examples of individual sports which could be covered: badminton, bowling, golf, martial arts, racquet sports, tennis, track and field, wrestling.
Components: Class

HHP 3010
Technology in Health and Physical Education
This course is intended to provide students with a broad variety of educational technologies specific to the instruction of health and physical education content. General education teaching tools such as electronic grading systems, portfolio development and web page design will also be included.
Components: Class
Prereqs/Coreqs: P: PHYSED 2320 and TEACHING 2010

HHP 3020
Physiology of Exercise
This course is designed to emphasize the fundamentals of human physiology associated with exercise performance. Considerable emphasis is given toward relating exercise responses and adaptations with metabolism. Selected topics will include metabolic pathways of energy transfer, physiological adaptations to training, cardiorespiratory function, oxygen consumption, contractile physiology, muscle fiber types, ergogenic aids, body composition, and weight control. Lectures will focus on applying these interrelated topics into a framework upon which performance and conditioning strategies can be based. Laboratory sessions will include demonstrations and experimental opportunities related to the measurement of human performance and physiological characteristics. Each laboratory will consist of approximately 30 minutes of instruction followed by the respective laboratory procedure or activity. Participation in laboratory activities is required. Please bring and/or wear your workout attire for all laboratories.
Components: Laboratory, Class
Prereqs/Coreqs: P: “C” or better in BIOLOGY 2140 or BIOLOGY 2340 and departmental consent

HHP 3040
Adapted Aquatics
This course will provide instruction and service learning opportunities in the area of adapted aquatics. Activities will include: development and implementation of individualized aquatics programming, development of individualized education program (IEP) paperwork related to aquatics, individual or small group instruction, exposure to aquatics equipment and usage, assessment implementation, and self and/or instructor evaluation of teaching methods.
Components: Class
Prereqs/Coreqs: P: PHYSED 3430

HHP 3120
Stress Management at the Worksite
Designed to educate the student in the factors affecting one’s personal stress level, the components of an advantageous stress management program and the techniques of facilitating relaxation exercises.
Components: Class

HHP 3220
Teaching Issues Relating to Alcohol, Drugs, and Sexuality
Curriculum planning methods and teaching of sex education and alcohol and drugs education.
Components: Class
Prereqs/Coreqs: P: PHYSED 2030

HHP 3240
Exercise Among Maturing Adults
The purpose of this course is to learn more about the adult to elderly population, and the best research supported means of starting and adhering to an exercise program. Topics to be discussed include but are not limited to: physiological developments and changes of this population, safe and recommended lifetime activities and exercise options for this population, reasons for starting an exercise program, reasons for adherence, common mental and physiological illnesses and diseases among this population, nutrition and medication needs, and their role in exercise.
Components: Class
Prereqs/Coreqs: P: PHYSED 3330

HHP 3250
Principles of Strength and Conditioning
This course is designed to emphasize the essentials of strength training and conditioning related to human performance. Considerable emphasis is given toward exploring the scientific principles and theories of strength training and conditioning as well as their relevance in improving general health and athletic performance. General topics will include the concepts and applications of exercise science, testing and evaluation, exercise techniques, program design (anaerobic and aerobic exercise prescription), risk management, as well as facility organization and development. Lectures will focus on relating these concepts into a foundation upon which strength and conditioning strategies can be applied.
Components: Class
Prereqs/Coreqs: P: PHYSED 3020

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Prereqs/Coreqs</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP 3330</td>
<td>2</td>
<td>Lifetime Activities</td>
<td>For the physical education teacher candidate to experience, implement, and instruct lifetime activities in their physical education curriculum.</td>
<td>Components: Class</td>
</tr>
<tr>
<td>HHP 3340</td>
<td>2</td>
<td>Football Coaching</td>
<td>This course covers the theory of football coaching and the techniques for teaching the skills. The course prepares the individual for coaching football in a high school or college setting.</td>
<td>Components: Laboratory</td>
</tr>
<tr>
<td>HHP 3360</td>
<td>2</td>
<td>Fitness Evaluation</td>
<td>This course is designed to teach the student methods for evaluating the components of health-related fitness for various age groups and fitness levels. (Fall and Spring)</td>
<td>Components: Laboratory, Class; Prereqs/Coreqs: P: PHYSED 3020</td>
</tr>
<tr>
<td>HHP 3380</td>
<td>2</td>
<td>Fitness Programming and Prescription</td>
<td>Designed to teach the student how to develop and implement fitness programs for various populations. The student will investigate the concept of exercise adherence and the factors affecting it. The student will be conducting a case study on practical implementation and development of fitness programming and exercise prescription.</td>
<td>Components: Laboratory; Prereqs/Coreqs: P or C: PHYSED 3360</td>
</tr>
<tr>
<td>HHP 3400</td>
<td>2</td>
<td>Outdoor Activities/Water Safety Instruction (WSI)</td>
<td></td>
<td>Components: Class</td>
</tr>
<tr>
<td>HHP 3420</td>
<td>2</td>
<td>Health Promotion at the Worksite</td>
<td>This course prepares the student to plan and implement a health promotion program in a corporate or workplace setting.</td>
<td>Components: Class</td>
</tr>
<tr>
<td>HHP 3430</td>
<td>3</td>
<td>Teaching Children with Exceptional Abilities in Health and Physical Education</td>
<td>Knowledge provided regarding conditions that impede psychomotor functioning. A generic approach to adapting physical education to the needs of special populations. Information on assessment and IEP formation provided.</td>
<td>Components: Class; Prereqs/Coreqs: P: PHYSED 2320</td>
</tr>
<tr>
<td>HHP 3440</td>
<td>2</td>
<td>Elementary/Middle School Physical Education</td>
<td>This course explores all the elements of planning for, managing, and instructing physical education classes. Students will be given the opportunity to work directly with school-age students, and reflect upon their experiences. Students will plan lessons, evaluate in-service teachers as well as their peers, and develop a number of teaching strategies.</td>
<td>Components: Laboratory; Prereqs/Coreqs: P: admission to the School of Education</td>
</tr>
<tr>
<td>HHP 3500</td>
<td>3</td>
<td>Methods in Teaching Health Education</td>
<td>Utilization of approved methods and materials for teaching health in grades kindergarten through 12; application of course content and procedures involved in health teaching.</td>
<td>Components: Class; Prereqs/Coreqs: P: admission to the School of Education and PHYSED 2030</td>
</tr>
<tr>
<td>HHP 3510</td>
<td>2</td>
<td>Assessment and Screening in Physical Education</td>
<td>Knowledge provided regarding principles for selection of assessment/screening tools and administrative considerations. Practical opportunities to administer, score, and interpret a variety of tools. Production of goals and objectives based on assessment/screening results.</td>
<td>Components: Laboratory</td>
</tr>
<tr>
<td>HHP 3610</td>
<td>1</td>
<td>Coaching Basketball</td>
<td>Designed to cover the basics of coaching basketball in a competitive setting. Anyone interested in coaching basketball is eligible to take this course. This course does not satisfy the General Education requirement for a physical activity course.</td>
<td>Components: Laboratory</td>
</tr>
<tr>
<td>HHP 3720</td>
<td>3</td>
<td>Kinesiology</td>
<td>The science of human motion and its application to physical education activities.</td>
<td>Components: Class</td>
</tr>
<tr>
<td>HHP 3830</td>
<td>2</td>
<td>Perceptual Motor Learning and Motor Development</td>
<td>An analysis of how we gain an awareness of the external world by the organization of sensory data. The traditional problems of perception are explored along with theoretical approaches to these problems.</td>
<td>Components: Class</td>
</tr>
<tr>
<td>HHP 3850</td>
<td>2</td>
<td>Nutrition</td>
<td>Food nutrients and their relationships to health of children; integration of nutrition into the elementary school curriculum.</td>
<td>Components: Class</td>
</tr>
<tr>
<td>HHP 3920</td>
<td>2</td>
<td>Emotional Health</td>
<td>The influence of emotional health on the total education of the school age child as a basis for a healthy personality.</td>
<td>Components: Class</td>
</tr>
<tr>
<td>HHP 4020</td>
<td>2</td>
<td>Psychology of Coaching</td>
<td>The principles and techniques applicable to coaching interschool activities.</td>
<td>Components: Class</td>
</tr>
</tbody>
</table>
Methods in Middle/Secondary Physical Education
This course explores all the elements of planning for, managing, and instructing physical education classes. Students will be given the opportunity to work directly with school-age students, and reflect upon their experiences. Students will plan lessons, evaluate in-service teachers as well as their peers, and develop a number of teaching strategies.

Components: Class
Prereqs/Coreqs: P: admission to the School of Education

Consumer Health
A survey and analysis of today’s public health problems. An overview describing the relationship between the health of consumers and the use of products and services.

Components: Class

Organization, Administration, and Curriculum of Physical Education and Health Examination of the basic personal leadership and administrative skills necessary to manage physical education, fitness and sport-athletic programs.

Components: Class
Prereqs/Coreqs: Admitted to school of education

Lifeguard Training
The purpose of this class is to provide the student with knowledge and skills of lifeguarding. Includes Red Cross certification.

Components: Laboratory

Water Safety Instructor
Instruction in teaching Red Cross swimming lessons and water safety courses. Red Cross certification as water safety instructor.

Components: Laboratory

Seminar in Health Promotion
This course will be a forum to discuss current issues in all content standards of health education and the relationship to the UWPlatteville Health Promotion Standards. The content area of community health will be stressed. The remaining content areas will be linked to community outreach. This seminar course is ideally designed to be student driven, and only facilitated by the instructor.

Components: Class
Prereqs/Coreqs: P: PHYSED 3500

Practicum in Athletic Coaching
Actual experience related to the coaching of an athletic team under the leadership of an experienced coach and teacher.

Components: Field Studies

Current Issues in Health and Physical Education
Study of current topics in health and physical education.

Components: Class

Injury Prevention and Treatment
Athletic training will consist of instruction in taping techniques for athletic injuries. It will also include recognition, treatment and rehabilitation of common athletic injuries and instruction in the use of protective sports equipment.

Components: Class
Prereqs/Coreqs: P: BIOLOGY 2140 or BIOLOGY 2340

Practicum in Adapted Physical Education
Students are provided the opportunity to work with children with disabilities in an educational setting.

Components: Field Studies
Prereqs/Coreqs: P: PHYSED 3430 and PHYSED 3510 and admission to the School of Education.

Advanced Athletic Training
Deals with sport specific injuries, their prevention and treatment, and rehabilitation. The course also includes evaluation of injuries and the use of modalities in treatment.

Components: Class
Prereqs/Coreqs: P: PHYSED 4520

Athletic Training/Rehabilitation Internship
An internship under the supervision of a certified athletic trainer.

Components: Field Studies
Prereqs/Coreqs: P: PHYSED 4620

Level I Wellness-Fitness Internship
Level I is served in the Health and Physical Education Fitness Lab. Expected outcomes are competencies in the use and maintenance of testing equipment, ability to analyze test data and the use of computer software.

Components: Field Studies

Level II Wellness-Fitness Internship
Level II involves experience in a wide variety of situations, including classroom and small groups instruction, testing of students and non-students in the PE Fitness Lab, demonstration and individual counseling of 2-3 students as their personal trainer.

Components: Field Studies

Level III Wellness-Fitness Internship
Off-Campus Internship at a fitness club, a corporate fitness program, YMCA/YWCA or health related facility with PE department approval of site.

Components: Field Studies

Seminar in Community and Environmental Health Education
Components: Seminar
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prereqs/Coreqs</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP 4960</td>
<td>Independent Study in Physical Education</td>
<td>1–3</td>
<td>Components: Independent Study</td>
</tr>
<tr>
<td>HHP 4990</td>
<td>Independent Study in Health Education</td>
<td>1–3</td>
<td>Components: Independent Study</td>
</tr>
</tbody>
</table>

**HISTORY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prereqs/Coreqs</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 1010</td>
<td>World Civilization I</td>
<td>3</td>
<td>Components: Discussion, Class GE: Historical Perspective</td>
</tr>
<tr>
<td></td>
<td>The history of civilization to 1715, with emphasis upon the interaction among the peoples of Africa, Asia and Europe.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HISTORY 1020</td>
<td>World Civilization II</td>
<td>3</td>
<td>Components: Discussion, Class GE: Historical Perspective</td>
</tr>
<tr>
<td></td>
<td>The history of human civilization since 1715, with emphasis upon the interaction among the peoples of Africa, Asia, the Middle East, the Americas, and Europe in the modern period.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HISTORY 1330</td>
<td>History of the United States to 1877</td>
<td>3</td>
<td>Components: Discussion, Class GE: Historical Perspective</td>
</tr>
<tr>
<td></td>
<td>A general survey of American history based on major social, political and economic developments from colonial times through the Civil War and Reconstruction.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HISTORY 1430</td>
<td>History of the United States since 1877</td>
<td>3</td>
<td>Components: Discussion, Class GE: Historical Perspective</td>
</tr>
<tr>
<td></td>
<td>Continuation of a general survey of American history based on major social, political and economic developments from the Reconstruction to the present.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HISTORY 3010</td>
<td>Race, Gender, and United States Labor History</td>
<td>3</td>
<td>Components: Class Cross Offering: ETHNSTDY 3010 GE: Ethnic Studies, Historical Perspective Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td></td>
<td>Social, cultural, and economic history of American working people from the colonial period to the present.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HISTORY 3080</td>
<td>American Military History</td>
<td>3</td>
<td>Components: Class GE: Historical Perspective Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td></td>
<td>A survey of American military history with emphasis on the development of military policy and civil-military relations.</td>
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</tr>
</tbody>
</table>

**HISTORY 3120**

**American Colonial History**

The American Colonies, British policies and the Revolution.

Components: Class GE: Historical Perspective Prereqs/Coreqs: P: HISTORY 1330 or consent of instructor

**HISTORY 3130**

**New Nation**

American Major trends and developments in the new nation: framing the constitution, establishment of a new government, development and expansion, the Jacksonian era 1783-1848.

Components: Class GE: Historical Perspective Prereqs/Coreqs: P: HISTORY 1330 or consent of instructor

**HISTORY 3140**

**The Civil War and Reconstruction**

The origins, manifestations and results of sectional controversy in the U.S in the mid-19th century.

Components: Class GE: Historical Perspective Prereqs/Coreqs: P: HISTORY 1330 or consent of instructor

**HISTORY 3150**

**Gilded Age and Progressive Era**

The transformation of the United States from an agrarian nation to an urban, industrial society 1877-1917.

Components: Class GE: Historical Perspective Prereqs/Coreqs: P: HISTORY 1430 or consent of instructor

**HISTORY 3160**

**US Legal History of Race and Gender**

This course will examine the interplay among race, gender, class, ethnicity, nationality, and legal issues from the colonial period of American history to the present. In addition to the discussion of U.S. Supreme Court decisions and U.S. Constitutional issues, this course will discuss legal movements, discourses, or conflicts from the bottom up and analyze legal issues as a part of broad social and cultural movements.

Components: Class GE: Historical Perspective Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor

**HISTORY 3230**

**The West in American History**

The frontier and the American west from 1763-1920.

Components: Class GE: Historical Perspective Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor
**HISTORY 3240**  
**African-American History 1619 to Present**  
The historical experience of African-Americans since 1619.  
**Components:** Class  
**Cross Offering:** ETHNSTDY 3240  
**GE:** Ethnic Studies, Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1330 or HISTORY 1430 or consent of instructor or department chair

**HISTORY 3320**  
**History of Wisconsin**  
Development of the state of Wisconsin from colonial times to the present.  
**Components:** Class  
**GE:** Humanities  
**Prereqs/Coreqs:** P: HISTORY 1430 or consent of instructor

**HISTORY 3400**  
**The Vietnam War**  
**Components:** Class  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1430 or consent of instructor

**HISTORY 3410**  
**The United States, 1898-1945**  
A detailed historical examination of the United States from the turn of the twentieth century through the end of World War II. The course is structured around, though not limited to, the following subjects: the emergence of the United States as a world power; the growth and contractions of the nation’s industrial economy; the stratification of American society along racial, gender, and class lines; and the sustained efforts of millions of citizens to secure equality.  
**Components:** Class  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1430 or consent of instructor

**HISTORY 3450**  
**History of U.S. Foreign Relations**  
An introduction to the origin and evolution of political, economic, and cultural relations between the United States and the rest of the world.  
**Components:** Class  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1330 or HISTORY 1430 or consent of instructor

**HISTORY 3460**  
**History of Modern Africa**  
Examines the trajectory of African history from the early 19th century to contemporary times. Focuses on three defining moments: the “Scramble” and partition of Africa, the institutionalization of the colonial project, and the struggles and challenges of independence. Emphasis is on African agency and the African voice.  
**Components:** Class  
**GE:** Historical Perspective, International Education  
**Prereqs/Coreqs:** P: HISTORY 1020 or HISTORY 1430 or consent of instructor

**HISTORY 3480**  
**The United States since 1945**  
A detailed examination of the US after World War II, leading up to the present time. The course is structured around, though not limited to, these recurring subjects: the U.S. as a world power and its overseas commitments, including war; the stratification of U.S. society along racial, gender and class lines, and the sustained efforts of so many Americans to secure equality; the partisanship of U.S. politics the links between class, capitalism, and culture.  
**Components:** Class  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1430 or consent of instructor

**HISTORY 3520**  
**American Women's History**  
Surveys the changing patterns of domestic and family life, work, education and public participation of American women from the Colonial period to the present.  
**Components:** Class  
**Cross Offering:** WOMGENDR 3520  
**GE:** Gender Studies, Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1330 or HISTORY 1430 or consent of instructor

**HISTORY 3610**  
**British Isles to 1714**  
The political evolution of the English state and the national development and interactions of the English, Irish, Scottish, and Welsh peoples from their origins to 1714.  
**Components:** Class  
**Cross Offering:** POLISCI 3610  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1010 or HISTORY 1020 or consent of instructor

**HISTORY 3620**  
**British Isles since 1714**  
The political evolution of the British state and the national development and interactions of the English, Irish, Scottish, and Welsh peoples from 1714 until the present.  
**Components:** Class  
**Cross Offering:** POLISCI 3620  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1010 or HISTORY 1020 or consent of instructor

**HISTORY 3640**  
**Imperialism in Africa and Asia**  
European political and economic imperialism in Africa and Asia from the 15th century to the present. Emphasis is on Asian and African agency and the Asian and African voice.  
**Components:** Class  
**GE:** Historical Perspective, International Education  
**Prereqs/Coreqs:** P: HISTORY 1020 or consent of instructor
HISTORY 3650  
Women and Gender in Latin American History  
Examines the continuities and ruptures in the lives of Latin American women from the colonial period to the present. Compares and contrasts the roles of women from different classes, ethnic groups, and regions. This course considers women's history through individual life stories and by looking at the social, cultural, and institutional contexts of their lives, with a focus on women as historical actors.

**Components:** Class  
**Cross Offering:** WOMGENDR 3650  
**GE:** Historical Perspective, International Education  
**Prereqs/Coreqs:** P: HISTORY 1020 or HISTORY 1430 or consent of instructor

HISTORY 3660  
Colonial Latin American History  
Political, social, economic, and cultural history of Latin America from pre 1500 to the 1800s.

**Components:** Class  
**GE:** Historical Perspective, International Education  
**Prereqs/Coreqs:** P: HISTORY 1020 or HISTORY 1430 or consent of instructor

HISTORY 3670  
Modern Latin American History  
Political, social, economic, and cultural history of Latin America from the start of the 19th century to the present.

**Components:** Class  
**GE:** Historical Perspective, International Education  
**Prereqs/Coreqs:** P: HISTORY 1020 or HISTORY 1430 or consent of instructor

HISTORY 3700  
Women in European Civilization  
Covers activities of, and attitudes towards, women in ancient Greece and Rome, the Middle Ages, the Renaissance, the Reformation, the Enlightenment, the French Revolution, the 19th century, the two modern wars, and the end of the 20th century. Analyzes women in the context of family life, work life, education, politics, science, and social movements.

**Components:** Class  
**Cross Offering:** WOMGENDR 3700  
**GE:** Gender Studies, Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1010 or HISTORY 1020 or consent of instructor

HISTORY 3710  
Ancient Civilizations  
The history of ancient civilizations including artistic, cultural, economic, intellectual, political, religious and social development.

**Components:** Class  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1010 or consent of instructor

HISTORY 3730  
Medieval Europe  
Rise of national monarchies, the church, feudalism, the commercial revolution, the Crusades, intellectual developments, and the Black Death are among the highlights in this examination of Europe from the fall of the Western Roman Empire to 1500.

**Components:** Class  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1010 or consent of instructor

HISTORY 3740  
The Renaissance and Reformation  
Europe in the transition period from medieval to modern civilization. Special emphasis on the intellectual, artistic, and cultural developments in Italy and northern Europe from 1350 to 1550 and the new approaches to Christianity embodied by the Protestant Reformation of 1517 and its medieval precursors.

**Components:** Class  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1010 or consent of instructor

HISTORY 3810  
Early Modern Europe  
Examines the first three centuries of Europe's modern age, from the late 15th century to the outbreak of the French Revolution in 1789. The development of new political, economic, social, and cultural institutions distinct from those of medieval history will be covered, in areas such as religious beliefs, the exercise of monarchical power, interactions with the non-European world, and ordinary people's daily lives.

**Components:** Class  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1010 or HISTORY 1020 or consent of instructor

HISTORY 3830  
French Revolution and Napoleon 1789-1815  
Background, development and results of the French Revolution and Age of Napoleon. Coverage includes the European scene in the late 18th century and the impact on the contemporary world.

**Components:** Class  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1020 or consent of instructor

HISTORY 3850  
Twentieth Century Europe  
The origin and development of the main trends, factors and problems of today's world, with discussion of contemporary issues.

**Components:** Class  
**GE:** Historical Perspective  
**Prereqs/Coreqs:** P: HISTORY 1020 or consent of instructor
HISTORY 3860 3 credits
History of Western Science
Covers developments in science in ancient Greece and Rome, the Middle Ages, the period of the Scientific Revolution (including Copernicus, Galileo, and Newton), Darwinism, quantum physics, and Einstein’s theories.
Components: Class
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor

HISTORY 3870 3 credits
Nazi Germany and the Holocaust
An examination of the origins and development of Nazism in Germany under the leadership of Adolf Hitler, with particular attention to the genocide against European Jewry known as the Holocaust.
Components: Class
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1020 or consent of instructor

HISTORY 3880 3 credits
Modern European Thought and Culture
An examination of the evolution of European intellectual culture from the rise of modernity in the Scientific Revolution through the Enlightenment, Romanticism, Realism, Existentialism, and Modernism to the (purported) end of modernity in Post-Modernism. Related movements such as conservatism, socialism, nationalism, feminism, and fascism will also be covered. This course conceives of thought and culture very broadly and is primarily concerned with the social, political, and economic context of Europe’s intellectual development.
Components: Class
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor

HISTORY 3890 3 credits
History of Science and Technology in Europe: Faculty-Led Short-Term Intl Exp
This course examines the modern scientific and technological history of Europe over the past five centuries, with considerable attention to the ways in which those developments have been intertwined with Europe’s wider political, economic, social, and cultural history. Students will participate in a short-term study abroad program in Europe led by the course instructors; precise course destinations will vary.
Components: Class
GE: Historical Perspective, International Education

HISTORY 3920 3 credits
Modern Middle East
The history of the Middle East from the rise of the Ottoman Empire in the 1400s to the 21st century, with an emphasis on religious, political, and economic developments.
Components: Class
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1020 or consent of instructor

HISTORY 3950 3 credits
Modern Japan
Social, cultural, and political history of Modern Japan from the 17th century to the present.
Components: Class
Cross Offering: POLISCI 3340
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1020 or consent of instructor

HISTORY 3970 3 credits
Modern China
Social, cultural, and political history of Modern China from the 19th century to the present.
Components: Class
Cross Offering: POLISCI 3350
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1020 or consent of instructor

HISTORY 4110 3 credits
Russia to 1856
Political, social, economic, and cultural history of North Central Asia from the origins of human settlement until the middle of the 19th century, with particular attention to Russian civilization and the origin and growth of the Russian empire.
Components: Class
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor

HISTORY 4120 3 credits
Modern Russia
Political, social, economic, and cultural history of North Central Asia from the middle of the 19th century until the present time, with particular attention to Russian civilization, and the political evolution from Russian empire, to Soviet partocracy, to presidential republic.
Components: Class
Cross Offering: POLISCI 4120
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1020 or consent of instructor

HISTORY 4230 1–3 credits
Issues in History
Selected topics and issues of contemporary interest from U.S. and world history. The specific topic will be chosen by the instructor and announced when the course is scheduled. May be repeated for credit.
Components: Class

HISTORY 4660 1–8 credits
Cooperative Field Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and the department.
Components: Field Studies
INDUSTRIAL ENGINEERING

INDSTENG 2130 3 credits
Fundamentals of Industrial and Systems Engineering
Introduction to industrial and systems engineering and associated specialties. Basic principles including techniques in work measurement, facility design, management, and quality. Professional ethics. Techniques are demonstrated through the use of general applications packages.
Components: Laboratory, Class
Prereqs/Coreqs: P: sophomore standing

INDSTENG 3130 3 credits
Industrial Engineering Computer Applications
Spreadsheets, databases, Statistical Analysis Software, and computer programming. Emphasis on using the computer and computer software as a tool to solve Industrial Engineering problems and to facilitate Industrial Engineering activities.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDSTENG 2130

INDSTENG 3430 3 credits
Human Factors Engineering
Application of human factors (ergonomics) principles to the design of industrial and office systems. Consideration of human capabilities and limitations, effects of the work environment, and design for the handicapped. Application of bio-mechanical and energy consumption models, the human factors design guide, and MQPro software for virtual ergonomics analyses and evaluations. Current standards and OSHA guidelines. At least 8 laboratory projects will enhance the application of human factors principles to real world problems. Safety aspects of human factors engineering will be discussed.
Components: Laboratory, Class
Prereqs/Coreqs: P: MATH 2740 and BIOLOGY 2340

INDSTENG 3530 3 credits
Operations Research I
Basic methodology and techniques of operations research. Emphasis on application and problem solving models; linear programming, sensitivity analysis, nonlinear/classical optimization, queuing theory; Markov processes; dynamic programming.
Components: Class
Prereqs/Coreqs: P: MATH 4030

INDSTENG 3630 3 credits
Work Measurement and Design
Principles and techniques of work design, operation analysis and job design. Work methods and analysis; predetermined time systems; stopwatch time studies; work sampling; standards development. Weekly lab/project exercises allow hands-on practice with techniques. Safety and ergonomic considerations in work design will be emphasized.
Components: Laboratory, Class
Prereqs/Coreqs: P: MATH 4030 and INDSTENG 3430

INDSTENG 3780 3 credits
System Safety Engineering
Principles of safety and safety management with an emphasis on OSHA standards. Common hazard situations are presented for anticipation, identification, and evaluation. Ethical and legal responsibilities of engineers are explored. Safety management, plans, and programs are discussed with an emphasis on development and implementation. Risk assessment concepts are introduced. Emphasis on communication between the engineer and personnel at all levels with an organization.
Components: Class
Prereqs/Coreqs: P: junior standing or consent of instructor

INDSTENG 3950 4 credits
Industrial Engineering Cooperative Education
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. During co-op the student is expected to be away from his/her studies at UW-Platteville and work for an industry for a semester and summer. Credits do not fulfill graduation requirements. Minimum cumulative GPA of 2.50 is recommended for participation.
Components: Field Studies
Prereqs/Coreqs: P: junior standing

INDSTENG 3970 1 credit
Industrial Engineering Internship
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. NOTE: This program is separate and distinct from the cooperative education program and is principally designed to cover the summer work experience. Internship is designed to provide experiential learning experience to the student during the summer period. Credits do not fulfill graduation requirements.
Components: Field Studies
Prereqs/Coreqs: P: junior standing

INDSTENG 4030 3 credits
Production and Operations Analysis
Analysis and design of production control procedures including inventory and scheduling. Operations management techniques including forecasting and aggregate planning. Project planning using CPM/PERT.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDSTENG 3130 and INDSTENG 3530
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites/Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDSTENG 4130</td>
<td>3</td>
<td>System Simulation and Analysis</td>
<td>Applications of computer simulation of discrete systems with emphasis on model formulation; instruction in at least one simulation language. Emphasis on input data analysis, model development, model validation, statistical analysis of output, and experimental design.</td>
<td>Components: Laboratory, Class Prereqs/Coreqs: P: INDSTENG 2130 and INDSTENG 3530</td>
</tr>
<tr>
<td>INDSTENG 4230</td>
<td>3</td>
<td>Facilities Design</td>
<td>Design principles and analytical procedures for facility location, development of an overall functional facility plan, materials receipt accounting, processing and storage areas. Discussion of manufacturing and service-oriented facilities. Application of IE principles to optimization of site selection and facility design. Facilities covered include automated manufacturing systems, flexible manufacturing systems, modular design and office space design. Application of computerized layout techniques is emphasized. Weekly lab/project sessions allow application exercises to enhance theory.</td>
<td>Components: Laboratory, Class Prereqs/Coreqs: C: INDSTENG 3630</td>
</tr>
<tr>
<td>INDSTENG 4330</td>
<td>3</td>
<td>Material Handling and Warehousing</td>
<td>Procedures and techniques for analysis of material handling and warehousing problems. Principles of materials handling; systematic handling analysis; productivity analysis; unit load design; automatic identification techniques; selection/use of common and state-of-the-art equipment and techniques; design of materials handling systems; safety procedures in materials handling. Weekly lab/project sessions allow application exercises to enhance theory.</td>
<td>Components: Laboratory, Class Prereqs/Coreqs: P: INDSTENG 3530 and GENENG 2820</td>
</tr>
<tr>
<td>INDSTENG 4630</td>
<td>3</td>
<td>Manufacturing Systems Design</td>
<td>Principles and procedures related to the design, implementation, documentation and control of manufacturing systems. Consideration of transfer line, numerical control systems, flexible automation, robotics, and manufacturing support activities such as cost, quality, and materials control. Introduction to CAD/CAM and CIM.</td>
<td>Components: Laboratory, Class Prereqs/Coreqs: P: MECHNCHL 3040; C: INDSTENG 3130 and MECHNCHL 3230</td>
</tr>
<tr>
<td>INDSTENG 4730</td>
<td>3</td>
<td>Engineering Management</td>
<td>Fundamental concepts of management including management skills, functions, roles and theories; project management techniques; transition from engineer to manager; ethics in engineering; industrial safety management; and product liability.</td>
<td>Components: Class Prereqs/Coreqs: junior standing</td>
</tr>
<tr>
<td>INDSTENG 4750</td>
<td>3</td>
<td>Principles and Applications of Project Management</td>
<td>Systems perspective of scope definition, and management of scope, time human resources, communications, and risk, as it applies to industrial engineering projects.</td>
<td>Components: Laboratory, Class Prereqs/Coreqs: P: INDSTENG 4730</td>
</tr>
<tr>
<td>INDSTENG 4830</td>
<td>3</td>
<td>Engineering Continuous Improvement</td>
<td>Introduction to value engineering and lean techniques. Applications of engineering valuation. Basic principles of function analysis. Discussion of lean tools including value stream mapping.</td>
<td>Components: Class Prereqs/Coreqs: junior standing</td>
</tr>
<tr>
<td>INDSTENG 4930</td>
<td>3</td>
<td>Industrial Systems Design</td>
<td>This is the capstone design course, the culmination of the IE program; requires knowledge and application of all the IE principles to comprehensive industrial project design and development. The project will involve the application of more than one of the following methodologies to case studies or industrial projects: facilities location and design; production planning and control; materials handling; evaluation of alternatives; economic analysis; quantitative models; cost, inventory and budgeting controls, system specifications, safety considerations.</td>
<td>Components: Class Prereqs/Coreqs: C: INDSTENG 4230</td>
</tr>
<tr>
<td>INDSTENG 4980</td>
<td>1–3</td>
<td>Current Topics in Engineering</td>
<td>In-depth study of a current topic of interest to the engineering profession. The topic will be identified in the course title.</td>
<td>Components: Class Prereqs/Coreqs: P: senior standing</td>
</tr>
<tr>
<td>INDSTENG 4990</td>
<td>1–3</td>
<td>Independent Study</td>
<td>Advanced study in the area of specialization.</td>
<td>Components: Independent Study Prereqs/Coreqs: P: senior standing</td>
</tr>
</tbody>
</table>
## INDUSTDY STUDIES

**INDUSTDY 1030** 3 credits  
**Introduction to Manufacturing**  
An introduction to manufacturing principles, systems, and operations. The relationship of manufacturing to the major technological systems (Energy/power, Communication, Construction, and Transportation) is examined. Product development/engineering design is simulated through use of 3-D software.  
**Components:** Laboratory, Class

**INDUSTDY 1130** 3 credits  
**Wood Technology**  
An introduction to basic woodworking processes used by industry. The design process and problem solving are emphasized through development of a portfolio. A problem is identified by the student, then solved through the construction and testing of a project.  
**Components:** Laboratory, Class

**INDUSTDY 1200** 3 credits  
**AC/DC Fundamentals**  
Students study direct and alternating current circuits and their characteristics, Ohm’s Law, Kirchhoff’s Laws, voltage dividers, power, etc. Labs are performed using multimeters, oscilloscopes, circuit simulation software, and breadboards.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: Math placement level of 15 or MATH 15

**INDUSTDY 1230** 3 credits  
**Technical Drafting**  
An introduction to basic drafting techniques as a means of graphic communication. The principles of defining shape and size are studied utilizing computer aided drafting techniques. Activities deal with precise, applied graphic representation including precision and limit dimensioning associated with a variety of industrial situations.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: Math placement level of 15 or MATH 15

**INDUSTDY 1260** 3 credits  
**Building Construction Drafting**  
An introduction to basic drafting techniques as it pertains to building construction. The principles of defining shape and size are studied utilizing computer aided drafting techniques. Topics include sketching, projection, architectural dimensioning, sections detail views, print reading, and components of residential and commercial building structures.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: Math placement level of 15 or MATH 15

**INDUSTDY 1430** 3 credits  
**Introduction to Metals Processes**  
An introductory course surveying metalworking processes. Designed to impart academic and laboratory understanding of the fundamental principles of: machining, fabrication techniques, welding, casting and other metals manufacturing processes.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P or C: INDUSTDY 1030 or AGET 1750 and Math placement level 15 or MATH 15

**INDUSTDY 1530** 3 credits  
**Power Systems Technology**  
An analysis of methods of transferring industrial power. The basic principles of applied mechanisms, electrical actuators, control systems, engines and introductory pneumatics and hydraulics are emphasized in the course.  
**Components:** Laboratory, Class

**INDUSTDY 1830** 3 credits  
**Synthetic and Composite Materials**  
An introductory course to industrial materials including plastics, metals, ceramics and their limitations. The rationalization of enhancement of properties by combining the traditional industrial materials and applications of composite materials. This course is lab and lecture and the lab activities are emphasizing the spectrum of plastic matrix composite, testing, and evaluation of materials.  
**Components:** Laboratory, Class

**INDUSTDY 2040** 1–3 credits  
**Special Issues in Industrial Studies**  
The study of selected topics common in the industrially oriented disciplines. The issues to be covered will be identified in the course title.  
**Components:** Laboratory, Class

**INDUSTDY 2260** 3 credits  
**Semiconductors**  
Students study the theory and applications of diodes; BJT, FET, and MOSFET transistors; SCRs, Triacs, etc. The lab focuses on rectifiers, filtering, voltage regulation, applications of transistor switching, and 8-bit microcontroller programming, I/O, and control.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: INDUSTDY 1200

**INDUSTDY 2430** 3 credits  
**Building Construction Materials**  
A study of the properties and application of building materials including concrete, block and brick masonry as they are related to residential and commercial building construction. Lab includes the introduction to 3D CAD modeling of buildings and the drawing of building details as they pertain to the building materials.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: INDUSTDY 1260

**INDUSTDY 2540** 3 credits  
**Materials and Techniques of Building Construction**  
The basics of construction surveying, the properties and application of wood as a building construction material, an introduction to the use and application of the psychrometric chart, moisture control, the impact and prevention of mold, and analyses of building techniques. Lab includes the performance of various analyses via 2D/3D CAD, spreadsheets and other analysis methods.  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: INDUSTDY 2430 and COMPUTER 1830 or CIVILENG 2120 and Math placement level 30 or MATH 1530
INDUSTDY 2710 Principles of Safety 3 credits
A study of the principles of industrial safety. The course includes basic industrial safety concepts, analyzing safety and health issues at the workplace, accident causation, and prevention theories. Emphasis is placed on identifying and correcting unsafe practices or conditions before accidents occur. OSHA standards are also covered in the course.
Components: Class

INDUSTDY 2910 Plastics Technology 3 credits
The history, material chemistry, safety, properties, and testing are discussed. Plastic parts design is introduced. Plastics processing techniques, including the seven common plastics processing techniques and other specialized production methods are demonstrated.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1830

INDUSTDY 3140 General Construction Estimating 3 credits
Principles, theories, and systems of general construction estimating; quantity survey techniques; standard forms; material costs and labor pricing; and the use of computer estimating software.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 2430 and COMPUTER 1830 or CIVILENG 2120

INDUSTDY 3150 Polymeric and Ceramic Materials 3 credits
An analytical course that introduces students to the science and chemistry of polymeric and ceramic materials. The course is divided into two parts: Part I contains the fundamentals of atomic bonding, crystalline structures, phase diagrams, kinetics, and effects; Part II discusses the properties, design considerations, and applications of these industrial materials.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1830

INDUSTDY 3160 Machining and CNC Programming 3 credits
An intermediate course combining academic and laboratory principles of machining, Computer Numerical Control (CNC), computer assisted part programming, and CAD/CAM. Several laboratory projects develop knowledge and familiarity with machining centers and turning centers.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430

INDUSTDY 3180 Construction Safety Management 3 credits
A practical study of construction safety management principles and concepts are covered in this course designed for Building Construction Management majors or minors and Occupational Safety Management majors or minors. The course includes various management strategies for the identification, evaluation and correction of unsafe behaviors in effort to reduce injuries, fatalities and accidents on the construction site. Emphasis is also placed on the understanding of selected Code of Federal Regulations # 1926 OSHA Construction Industry Standards utilized in the development of a safe and healthy working environment.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 3210 Construction Laboratory 3 credits
Laboratory and field experience in basic carpentry and masonry principles, concrete forming, brick and block laying, estimating, scheduling and related areas.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1130 and INDUSTDY 2430

INDUSTDY 3220 Construction Procedures 3 credits
Planning and analysis of work methods, scheduling and its computer applications, control of crews, materials and equipment selection, CPM and PERT methods of scheduling, contract types, the project manual concept, and construction specification writing and interpretation.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2430 and MATH 1830 and COMPUTER 1830 or CIVILENG 2120

INDUSTDY 3230 Digital Electronics 3 credits
Students will study digital and linear integrated circuits utilized in control systems applications. Timer circuits, logic gates, and interfacing will be used in applications. Field Programmable Gate Array and microcontroller programming and applications will be studied in class and implemented in labs.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1200

INDUSTDY 3310 Metallurgy and Joining Processes 3 credits
An intermediate course studying the physical and mechanical properties of metals and their alloys, and the principles of heat treatment of ferrous and non ferrous alloys. Laboratory and theory on welding and joining processes and their affects on the metallurgy and physical properties of metals. A semester project on metallurgy or a joining method with a final report and presentation are requirements of the course.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430
INDUSTDY 3460 3 credits
3D Industrial Production Drafting
Expands 2D drafting concepts using AUTOCAD and provides integration of drafting and design procedures with 3-Dimensional software. Students will explore introductory through intermediate techniques including part model creation, assembly model creation, part drawing documents, geometric dimensioning and tolerancing, and other modeling features related to 3D solid modeling. Students will apply drafting and design principles to component parts toward various applications to meet industry standards.
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1230 and Math placement level 15 or MATH 15

INDUSTDY 3480 3 credits
Metalcasting Technology I
Technical study and laboratory investigation into processes used in the manufacture of non-ferrous metalcastings. Special emphasis on the following processes: green sand molding and testing, evaporative pattern casting, investment casting, chemically bonded sand, and shell sand. Also, lecture and discussions on the following topics: gating practices, sand technology, coremaking, casting defects, pattern development, metallurgy of aluminum and light alloys, metallurgy of copper base alloys, and cast trends in the metalcasting industry.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430

INDUSTDY 3500 3 credits
Fluid Power and Servo Systems
The study of fluid power theory and their applications to agricultural and industrial processes. The course includes an introduction to electrical, electronics, and fluid servo systems.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 or AGET 1750

INDUSTDY 3560 3 credits
Industrial Control Systems
The course includes the principles of measurement and control fundamentals including relay control systems, ladder logic, programmable controllers, industrial sensors, control software, and computer-controller systems.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1200 and INDUSTDY 1530

INDUSTDY 3570 3 credits
Industrial Hygiene Technology
This course is concerned with the chemical and physical hazards that impair the health of workers while on the job. Emphasis in the course is in recognizing, evaluating, and controlling hazards. Students receive experience in monitoring exposure of workers to harmful hazards and harmful physical conditions.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 3610 3 credits
Safety and Worker Compensation Laws
A study of the function of federal, state, and local laws in occupational safety. Emphasis is placed on OSHA and worker compensation legislation. The course reviews current requirements and court decisions as they relate to injury, accidents, and occupational disease. An opportunity is provided to evaluate various standards as each applies to educational and industrial facilities.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 3810 3 credits
Alcohol and Other Drugs as Related to Safety
A study of drug and alcohol use and abuse related to safety is included in the curriculum. The effects of drug and alcohol use and abuse and their influences on the American Society are provided. Responsible drinking and driving issues are also covered. In addition, strategies to deal with the troubled employee at the workplace are included. Emphasis is placed on discussion. A university or community service learning opportunity is also provided.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 3930 3 credits
Teaching Technology Education
Teaching methodology, delivery styles, and curriculum development for technology education. Unit planning, lesson planning, and aligning curriculum to standards are emphasized in an interactive teaching/learning environment.
Components: Class
Prereqs/Coreqs: P: TEACHING 1230

INDUSTDY 3940 3 credits
Materials Testing and Evaluation
A technical study and evaluation of industrial materials and processes using destructive and nondestructive evaluation methods. The course is designed to increase breadth and depth of knowledge of differing material characteristics and properties. Emphasis is given to understanding and application of processes used in material selection and testing methods.
Components: Laboratory, Class
Prereqs/Coreqs: P: PHYSICS 1050 or CHEMSTRY 1050 and INDUSTDY 1430 or INDUSTDY 1830

INDUSTDY 3950 3 credits
Industrial Design for Production
Study of design principles, production methods, and simultaneous manufacturing techniques. Emphasis is on understanding and application of the design process. Laboratory activities focus on the design and production of a product.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1230 and Math placement level 15 or MATH 15 and ENGLISH 1130 and 1230
INDUSTDY 4020
Topics in Industrial Studies
The study of selected topics common to the industrially oriented disciplines. The topic to be covered will be identified in the course title.
Components: Class
Prereqs/Coreqs: P: consent of instructor or department chair

INDUSTDY 4030
Electrical Power
A study of the methods and systems of AC and DC power generation, distribution, and motors. Other course areas include motor controllers, mechanical switches, and other industrial control systems.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 1200

INDUSTDY 4040
Environmental Safety Management
This course is concerned with developing an understanding of the principles and concepts inherent to the environmental regulatory structure within the United States and the State of Wisconsin. Students will receive an overview of environmental regulations, terminology, and management practices.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 4130
Industrial Laser Application
An investigation of principles and applications of lasers and laser systems as they pertain to manufacturing, service, and communication industries. The use of lasers in industrial, medical, and military applications will be discussed. Emphasis will be given to industrial applications such as cutting, welding, and heat treating.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1430 and INDUSTDY 1830

INDUSTDY 4160
Metal Manufacturing Senior Design
Application of the principles of design, metal cutting theory, CNC programming, metalcasting, and other metals manufacturing methods. In order to complete the semester project students will also apply production tooling methods, cost and time estimating, and quality measurement. An in depth final report and presentation are required.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1430 and INDUSTDY 3160 and INDUSTDY 3460

INDUSTDY 4360
Specialized Drafting Practices
This course provides an integration of 3-D drafting practices as they are applied to technical drafting problems. Conventional and computer aided drafting and design procedures will be applied to auxiliary and sectional views, geometric dimensioning and tolerancing, gears, cams, fixture layout, applied mechanics, and special fields of drafting to create assembly drawings for production.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1230 and INDUSTDY 3460

INDUSTDY 4480
Industrial Robotics
Study and application of robotic systems to include: fundamentals, classification, integration in manufacturing systems, end-effectors, sensors, vision systems, auxiliary equipment and control systems, safety and cost justification. Basics of robot programming is applied.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1530

INDUSTDY 4490
Metalcasting Technology II
In depth course in cast iron metallurgy and ferrous foundry practice. A semester project is chosen and followed through to completion. To complete the project many skills will be taught: melting practice and furnace operation, calculation of the risering and gating system, verification using computer modeling, patternmaking, molding, and pouring. Metallurgical analysis of the project produced is also necessary and a final report and presentation will be made.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430 and INDUSTDY 3310 and INDUSTDY 3480

INDUSTDY 4530
Residential Planning and Design
Residential planning, design and construction; specific emphasis is placed on the presentation plans, home ownership, housing, design requirement, and special structural design considerations. Laboratory work consists of developing a complete set of working architectural plans and related specifications using conventional and CADD drafting practices.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 2430

INDUSTDY 4630
Building Systems Analysis
The major building systems which include electrical systems, climate controlling systems, lighting systems, and water supply and drainage systems are studied.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 2430 and INDUSTDY 2540 and COMPUTER 1830 or CIVILENG 2120

INDUSTDY 4640
Curriculum and Facility Planning
Curriculum development through design of a program of study. Procedures for identifying and organizing content are examined. Laboratory design and layout are correlated with curriculum through examination of building codes, safety requirements, and equipment specifications.
Components: Class
Prereqs/Coreqs: P: TEACHING 1230

INDUSTDY 4650
Commercial Estimating
Principles, theories, and systems of commercial cost estimating and the use of computer estimating software.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 3140
INDUSTDY 4720 3 credits
Seminar in Safety
Programs in safety are explored with safety resource experts from industry, education, and government agencies invited as speakers. Additional time is devoted to topics to prepare the safety student for the safety profession. Included would be such topics on how to develop resumes, employment opportunities in the safety profession, and certification available in the safety profession.
Components: Seminar
Prereqs/Coreqs: P: INDUSTDY 2710 and junior standing

INDUSTDY 4750 3 credits
Disaster Preparedness
Principles of organization on the local, state, and national levels concerning natural and human disasters. A systematic and realistic approach to hazard analysis and mitigation. An opportunity is provided to participate in a class disaster preparedness project.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 4770 3 credits
Loss Control Safety Management
The role of management involved with principles of organization, implementation, administration, and evaluation of occupational safety programs is provided in the course. Methods of controlling losses, basic risk management theories, behavioral-based safety concepts and others are studied. Emphasis is placed on accountability and measuring safety performance at all levels of industry.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 4780 3 credits
Ergonomics in the Workplace
Ergonomics is the study of fitting jobs to workers and doing whatever is necessary to improve worker comfort. Topics covered in this course include: identifying ergonomic problems, office ergonomics, biomechanical principles, determining physical stress on the job, back problems, flexibility exercises, NIOSH lifting standard and equation, cumulative trauma disorders, ergonomic job hazard analysis, work station design cost, and others. An opportunity is provided to conduct an ergonomic job hazard analysis.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 4790 3 credits
Safety Management Components
The course stresses the importance of communications to the safety professional. Areas of communication studied include setting up and conducting safety conferences and developing a safety manual. The opportunity to develop a safety program is provided. Other safety-related communication techniques are also covered.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 4810 3 credits
Fire Protection
A study of the nature and theory of fire hazards; preplanning to prevent fires; the systems approach to fire protection services; the technology of fire control; and the application of theory and technology to solving fire problems. Special attention is given to preparing comprehensive fire prevention programs in the business or industrial world.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 4820 2 credits
Principles of Vocational-Technical Education
An examination of the historical roots of vocational-technical education. Readings and research are conducted on the current trends and issues facing vocational-technical education in a high tech society. Satisfies Vocational Certification.
Components: Class
Prereqs/Coreqs: P: TEACHING 1230

INDUSTDY 4840 3 credits
Construction Administration
Construction company organization; contract documents; legal, ethical, business, and management procedures; and principles of construction management.
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2430

INDUSTDY 4850 3 credits
Thermoforming Technology
A course emphasizing process description and process evaluation. The course is divided between lab and lecture. The students will learn theoretical knowledge of plastic forming processes and practical experience running equipment. Topics include injection molding and extrusion.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 2910

INDUSTDY 4860 3 credits
Injection Molding Technology
The course is an investigation of the science and technology of injection molding as a common method of production of plastic articles. The description of the technology and machinery will be discussed. Emphasis will be given to part mold design, use of CAD-CAM and simulation packages such as Mold-Flow. Students will have hands-on opportunities of working with mold preparation, machine operation, process trouble shooting and part evaluation.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 2910

INDUSTDY 4870 3 credits
Extrusion Technology
A course designed to provide students with in-depth knowledge of design, evaluation, and processing technique as they pertain to the plastics extrusion industry. The course emphasizes process description, profile design, die production, process and cost evaluation. The students will learn theoretical knowledge of extrusion and extrusion processes, production and troubleshooting of this production technique.
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1830 and INDUSTDY 2910
INDUSTDY 4900 3 credits
Work Measurement and Human Factors
A study of methods to improve productivity, efficiency and effectiveness of work methods. This course is intended to provide an understanding of the principles of motion economy and work measurement techniques using graphing and charting tools, process picture mapping, 5S value stream mapping, quantitative analysis methods, lean manufacturing and SixSigma concepts. The course is designed for those responsible for supervising or conducting work measurement in industry, but is also valuable for any business or service organization.

Components: Class
Prereqs/Coreqs: P: INDUSTDY 1030 and MATH 1830

INDUSTDY 4940 3 credits
Quality Assurance
The study of techniques and procedures of assuring and maintaining the quality of industrial products and services. Statistical process control methods such as variable and attribute control charts, acceptance sampling, process capability and reliability are examined. The course also studies modern quality systems, Six Sigma, industrial experimentation and ISO standards.

Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and MATH 1830

INDUSTDY 4950 3 credits
Production Planning and Control
An investigation and study of the integrated approach of effective management practices associated with production planning, scheduling, and control. Operations strategies, quality of work life, global competition, lean manufacturing, forecasting methods, supply chain management practices, scheduling and plant facilities layout are stressed.

Components: Class
Prereqs/Coreqs: P: INDUSTDY 1030 or BUSADMIN 2330

INDUSTDY 4960 3 credits
Commercial Building Planning and Construction Techniques
Specific emphasis is placed on planning/materials/methods and construction practices associated with general building construction including people/buildings/cities, land planning, infrastructure, equipment/machines, codes, pre-engineered buildings, and innovative technologies.

Components: Class
Prereqs/Coreqs: P: INDUSTDY 2430

INDUSTDY 4970 1–3 credits
Independent Study in the Department of Industrial Studies
Independent study is a contractual learning experience resulting in a technical report, research paper, project, or a combination of these. Selection of the area of study is done by the student in consultation with the instructor.

Components: Independent Study
Prereqs/Coreqs: P: junior standing or consent of instructor

INDUSTDY 4980 3 credits
Training and Supervision
An investigation of the duties and responsibilities of first-line supervisors. Emphasis is given to worker motivation, effective communication with employees, recruiting and selecting employees, supervisory leadership, employee evaluation and discipline, special interests in the workplace, employee training needs, and industrial training programs.

Components: Class
Prereqs/Coreqs: P: junior standing and 18 credits in industrial studies

INDUSTDY 4990 1–8 credits
Industrial Studies Internship
An on-the-job assignment commensurate with the instruction program and approved by the industrial internship coordinator. May be repeated for up to 8 credits, but must be progressively more advanced.

Components: Field Studies
Prereqs/Coreqs: P: INDUSTDY 2710 and 12 additional credits in industrial studies and other requirements per the Industrial Studies Internship Handbook

LATIN AMERICAN STUDIES

LATNAMER 2000 3 credits
Latin America: An Interdisciplinary Introduction
Latin America is an idea as well as a set of geographical, historical, literary, and anthropological entities. That is, academics confront this part of the globe as much for its conceptual fertility and promise as for its concrete representations. This course offers an opportunity to explore both of these phenomena from an interdisciplinary perspective. In order to fully engage this region and its diaspora, we as scholars are obliged to understand Latin America as a sum of its written, visual, and testimonial “texts” which we will begin to explore throughout this class.

Components: Discussion, Class
Prereqs/Coreqs: P: ENGLISH 1230

MATHEMATICS

MATH 10 3 credits
Elementary Algebra
This course is a comprehensive study of the topics generally found in a first year high school algebra course, and provides a foundation for success in required college mathematics courses. (This course is required for students with a mathematics proficiency level of 00. This course does not carry UW-Platteville degree credit.)

Components: Class

MATH 15 3 credits
Intermediate Algebra
Fundamental operations, factoring, fractions, equations, functions, graphing, exponents and radicals, linear equations, systems of equations, inequalities, polynomials, rational expressions, and quadratics. (This course does not carry UW-Platteville degree credit.)

Components: Class
Prereqs/Coreqs: P: MATH 10 with a “C-“ or better or mathematics proficiency level of 10 or above
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>3</td>
<td>Mathematics for Educators I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math 1030 is the first semester in a three-semester sequence of integrated content and methods courses for preservice teachers. It is open only to students in elementary education pursuing certification levels B-11 or 10-14. (The course is not intended for students pursuing certification level 10-21.) Topics covered include problem solving, formal and informal argument, history and development of number systems, sets, fundamental operations with whole numbers and integers, foundational work with functions, and selected topics from statistics.</td>
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<td><strong>Components:</strong> Class</td>
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<tr>
<td></td>
<td></td>
<td><strong>Prereqs/Coreqs:</strong> P: MATH 15 with a grade of “C-” or better or mathematics proficiency level of 15 or above. (Open only to Elementary Education majors)</td>
</tr>
<tr>
<td>MATH 1530</td>
<td>3</td>
<td>College Algebra</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Equations and inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, complex numbers, systems of equations. This course is equivalent to the first half of Math 2450. Students will not receive credit for both Math 1530 and Math 2450.</td>
</tr>
<tr>
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<td><strong>Components:</strong> Class</td>
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<td></td>
<td><strong>Prereqs/Coreqs:</strong> P: MATH 15 with a grade of “C-” or better or mathematics proficiency level of 15 or above. (MATH 1530 and MATH 2530 may not be taken concurrently)</td>
</tr>
<tr>
<td>MATH 1630</td>
<td>3</td>
<td>Finite Mathematics with Applications</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coordinate systems and graphs, matrices, linear systems, linear programming (geometric approach), set theory, counting techniques, probability, Markov chains.</td>
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<td><strong>Components:</strong> Class</td>
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<td><strong>GE:</strong> Math competency</td>
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<tr>
<td></td>
<td></td>
<td><strong>Prereqs/Coreqs:</strong> P: MATH 15 with a C- or better or mathematics proficiency level of 15 or above</td>
</tr>
<tr>
<td>MATH 1730</td>
<td>3</td>
<td>Mathematics of Finance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Simple and compound interest, annuities, amortization, depreciation, valuation of securities, and bonds.</td>
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<td></td>
<td><strong>Components:</strong> Class</td>
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<td></td>
<td><strong>GE:</strong> Math competency</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Prereqs/Coreqs:</strong> P: MATH 15 with a C- or better or mathematics proficiency level of 15 or above</td>
</tr>
<tr>
<td>MATH 1830</td>
<td>3</td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>An introduction to statistical analytical methods including graphing distributions, numerical summaries, linear regression and correlation, the normal distribution, confidence intervals and hypothesis tests for means and proportions, analyzing two-way tables, and analysis of variance. Minitab will be used throughout the course.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Components:</strong> Class</td>
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<td><strong>GE:</strong> Math competency</td>
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<td></td>
<td></td>
<td><strong>Prereqs/Coreqs:</strong> P: MATH 15 with a C- or better or mathematics proficiency level of 15 or above</td>
</tr>
<tr>
<td>MATH 1930</td>
<td>3</td>
<td>Mathematical Explorations</td>
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<td></td>
<td></td>
<td>A course to enrich the students’ general education by presenting the spirit and some insights of mathematics. The course satisfies the Mathematics Competency requirement, but will not serve as a prerequisite for further math courses. Topics will illustrate the nature of contemporary mathematics and the relationship between mathematics and our cultural heritage. Some of the content and format of the course may vary depending on the instructor’s interests. All instructors of the course will include a common unit on mathematical reasoning and problem solving. Other content and format of the course may vary depending on the instructor’s interests.</td>
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<td><strong>Components:</strong> Class</td>
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<td></td>
<td><strong>GE:</strong> Math competency</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Prereqs/Coreqs:</strong> P: MATH 15 with a C- or better or mathematics proficiency level of 15 or above</td>
</tr>
<tr>
<td>MATH 2030</td>
<td>3</td>
<td>Mathematics for Educators II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math 2030 is the second semester in a three-semester sequence of integrated content and methods courses for preservice teachers. It is open only to students in elementary education pursuing certification levels B-11 or 10-14. (The course is not intended for students pursuing certification level 10-21.) Topics covered include number theory; composition and decomposition of numbers including primes, factors, and multiples; using physical models to develop concepts of and operations on rational numbers; proportional reasoning; and number sense.</td>
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<td><strong>Components:</strong> Class</td>
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<td></td>
<td><strong>GE:</strong> Math (Elem/Mdl Educ Only)</td>
</tr>
<tr>
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<td><strong>Prereqs/Coreqs:</strong> P: MATH 1030 with a grade of “C-” or better. (Open only to Elementary Education majors)</td>
</tr>
<tr>
<td>MATH 2450</td>
<td>5</td>
<td>Pre calculus</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Solving equations and inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric and inverse trigonometric functions, trigonometric identities and formulas, complex numbers, systems of equations, and conic sections. This course is equivalent to taking both Math 1530 and Math 2530. Students who have credit for Math 1530 or Math 2530 should not take Math 2450.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Components:</strong> Class</td>
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<td></td>
<td><strong>GE:</strong> Math competency</td>
</tr>
<tr>
<td></td>
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<td><strong>Prereqs/Coreqs:</strong> P: MATH 15 with a grade of “B” or better or mathematics proficiency level of 20 or above</td>
</tr>
<tr>
<td>MATH 2530</td>
<td>3</td>
<td>Trigonometry and Analytic Geometry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Functions and their graphs, trigonometric and inverse trigonometric functions, trigonometric identities and formulas, solution of triangles, complex numbers, exponential and logarithmic functions, and conic sections. This course is equivalent to the second half of Math 2450. Students will not receive credit for both Math 2450 and Math 2530.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Components:</strong> Class</td>
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<td></td>
<td></td>
<td><strong>GE:</strong> Math competency</td>
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<td></td>
<td></td>
<td><strong>Prereqs/Coreqs:</strong> P: MATH 1530 with a grade of “C-” or better or mathematics proficiency level of 30 or above</td>
</tr>
</tbody>
</table>
MATH 2630  
Calculus with Applications  
3 credits  
Functions, limits, rates of change, exponential and logarithmic functions, differentiation, integration; with applications in the fields of business and economics.  
Components: Class  
GE: Math competency  
Prereqs/Coreqs: P: MATH 1530 or MATH 1630 or MATH 2450 with a grade of "C-" or better, or mathematics proficiency level of 30 or above

MATH 2640  
Calculus and Analytic Geometry I  
4 credits  
Limits and continuity, differentiation, differentials, antiderivatives, the definite integral and applications.  
Components: Class  
GE: Math competency  
Prereqs/Coreqs: P: MATH 2450 or MATH 2530 with a grade of "C-" or better, or mathematics proficiency level of 40

MATH 2730  
Discrete Mathematics  
3 credits  
Logic, sets, combinations, relations, graphs, and discrete probability.  
Components: Class  
Prereqs/Coreqs: P: MATH 2640 with a grade of "C-" or better

MATH 2740  
Calculus and Analytic Geometry II  
4 credits  
Derivatives and integrals involving exponential, logarithmic, and inverse trigonometric functions, further study of limits, further techniques and applications of integration, sequences and series, polar coordinates, and parametric equations.  
Components: Class  
Prereqs/Coreqs: P: MATH 2640 with a grade of "C-" or better or advanced placement

MATH 2840  
Calculus and Analytic Geometry III  
4 credits  
Analytic geometry of three dimensions, vector analysis, partial differentiation, multiple integrals, and line integrals.  
Components: Class  
Prereqs/Coreqs: P: MATH 2740 with a grade of "C-" or better or advanced placement

MATH 3020  
Teaching of Mathematics in the Middle and Secondary School  
3 credits  
An analysis of the mathematics studied in the middle and secondary schools. Topics include the principles and standards implemented by the NCTM for teaching mathematics and the methods and materials used in educating students in mathematics.  
Components: Class  
Prereqs/Coreqs: P: MATH 2640 and MATH 2740 with a "B" or better and junior standing and admission to the School of Education

MATH 3030  
Mathematics for Educators III  
3 credits  
Math 3030 is the third semester in a three-semester sequence of integrated content and methods courses for preservice teachers. It is open only to students in elementary education pursuing certification levels B-11 or 10-14. (The course is not intended for students pursuing certification level 10-21). Topics covered include names, properties, and relationships of two- and three-dimensional shapes; spatial sense; transformations including rotations, reflections, and translations; coordinate geometry; concepts of measurement including measurable attributes, standard and non-standard units, precision and accuracy, use of appropriate tools, the structure of systems of measurement; measurement including length, area, volume, size of angles, weight, mass, and temperature; indirect measurement and its uses, including developing formulas; formal and informal argument.  
Components: Class  
Prereqs/Coreqs: P: MATH 2030 with a grade of "C-" or better. (Open only to elementary education majors)

MATH 3040  
Mathematics Seminar for Middle School Teachers  
4 credits  
This course is intended to provide a background for teaching algebra and geometry in the middle school. This course will emphasize problem solving, communication, reasoning, representations, and making connections. Through problem-solving activities lead by either the instructor or students, the course will emphasize specific topics such as proportional reasoning, pattern finding, generalizing functional relationships, solving equations, area, perimeter, and volume. In particular, the course will emphasize the links between algebra and geometry, and when appropriate, will use relevant manipulatives including technology. The course will also emphasize pedagogical implications of current research regarding the teaching and learning of algebra and geometry.  
Components: Class  
Prereqs/Coreqs: P: MATH 3030 with a grade of "C-" or better. (Open only to students in the early adolescent education program)

MATH 3130  
College Geometry  
3 credits  
Topics from Euclidean geometry including classical theorems, transformational geometry, and Euclidean constructions. Non-Euclidean topics include inversion and reciprocation, as well as some ideas from projective geometry. A dynamic geometry software program is used extensively to illustrate ideas in this course.  
Components: Class  
Prereqs/Coreqs: P: MATH 2730 or MATH 3230 with a grade of "C-" or better

MATH 3230  
Linear Algebra  
3 credits  
Matrices, systems of equations, determinants, eigenvalues, eigenvectors, vector spaces, linear transformations, and diagonalization. This class is intended to introduce students to formal mathematics. Students will be expected to write definitions, theorems, and proofs.  
Components: Class  
Prereqs/Coreqs: P: MATH 2740 with a grade of "C-" or better
MATH 3330  
Modern Algebra  
Study of the structure of abstract algebraic systems through formal proof. Deals primarily with groups, but also examines other algebraic systems including rings and fields.  
Components: Class  
Prereqs/Coreqs: P: MATH 3230 with a grade of “C-” or better

MATH 3630  
Differential Equations I  
Solutions of first order differential equations, linear homogeneous and nonhomogeneous differential equations, Laplace transforms, linear systems and applications.  
Components: Class  
Prereqs/Coreqs: P: MATH 2840 with a grade of “C-” or better

MATH 3730  
Numerical Analysis  
This course is intended to provide an introduction to numerical methods. Topics will include computer arithmetic, solving nonlinear equations, numerical linear algebra, interpolation and curve fitting, and numerical differentiation and numerical integration.  
Components: Class  
Prereqs/Coreqs: P: MATH 3230 and fluency in a programming language

MATH 3830  
Differential Equations II  
Components: Class  
Prereqs/Coreqs: P: MATH 3630 with a grade of “C-” or better

MATH 4030  
Statistical Methods with Applications  
Introduction to probability, density and distribution functions, special discrete and continuous distributions, estimation, hypothesis testing, chi-square, correlation and regression.  
Components: Class  
Prereqs/Coreqs: P: MATH 2740 with a grade of “C-” or better

MATH 4040  
Statistics and Probability  
A thorough investigation of more advanced applications in statistics including joint distributions, linear regression, multiple regression, design of experiments for a single factor and multiple factors, analysis of variance, nonparametric statistics, and statistical quality control.  
Components: Class  
Prereqs/Coreqs: P: MATH 4030 with a grade of “C-” or better

MATH 4320  
History and Development of Mathematical Concepts  
A study of the history and development of mathematics from the primitive origins of numbers to modern mathematics.  
Components: Class  
Prereqs/Coreqs: P: MATH 2840 with a grade of “C-” or better

MATH 4330  
Theory of Numbers  
Integers, divisibility, prime numbers, Euclidean algorithm, linear Diophantine equations, congruences, Wilson’s and Euler’s theorems, Fermat’s little theorem, and other selected topics.  
Components: Class  
Prereqs/Coreqs: P: MATH 2730 or MATH 3330 with a grade of “C-” or better

MATH 4430  
Advanced Calculus  
Study, through formal proof, of sets, functions, the real numbers, sequences, limits, continuity, differentiation, and integration.  
Components: Class  
Prereqs/Coreqs: P: MATH 2840 and either MATH 2730 or MATH 3230 with a grade of “C-” or better

MATH 4530  
Complex Variables  
Complex numbers, complex functions, differentiation, elementary functions, integration, and infinite series.  
Components: Class  
Prereqs/Coreqs: P: MATH 2840 with a grade of “C-” or better

MATH 4620  
Topics in Modern Mathematics  
Topics to be selected by the instructor.  
Components: Class  
Prereqs/Coreqs: P: MATH 2840 with a grade of “C-” or better

MATH 4660  
Cooperative Field Experience  
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits, and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department.  
Components: Field Studies

MATH 4810  
Senior Seminar  
Development of library research techniques, organization and presentation of research findings beyond those formed in existing courses.  
Components: Seminar  
Prereqs/Coreqs: P: 12 credits of mathematics selected from MATH 3100 and above, including either MATH 4430 or MATH 3330 with a grade of C- or better.

MATH 4920  
Independent Study in Mathematics  
Components: Independent Study

Prereqs/Coreqs: P: 12 credits of mathematics selected from MATH 3100 and above, including either MATH 4430 or MATH 3330 with a grade of C- or better.
MECHANICAL ENGINEERING

MECHENG 2630 3 credits
Thermodynamics
Components: Class
Prereqs/Coreqs: P: CHEMISTRY 1450 or CHEMISTRY 1240 and MATH 2740

MECHENG 3030 3 credits
Dynamical Systems
Components: Discussion, Class
Prereqs/Coreqs: P: MATH 3630 and MECHNCHL 3430 and a grade of C- or better in GENENG 2230 and GENENG 2930

MECHENG 3040 3 credits
Engineering Materials
A study of metals and polymers. Crystal structures, microstructures, molecular structures and imperfections. Relationship between structures and observed mechanical properties. Material failure.
Components: Laboratory, Class
Prereqs/Coreqs: P: CHEMISTRY 1450 or 1240; C: GENENG 2340

MECHENG 3230 3 credits
Manufacturing Processes
Overview of materials such as metals, alloys, composites and ceramics. Primary manufacturing processes such as casting, forging, rolling and extrusion. Secondary processes such as forming, bending, drawing and swaging. Mechanics and economics of metal cutting. Economics of process planning. Special processes such as powder metallurgy. Design and manufacturing. Manufacturing systems, CAD/CAM/CNC/CIM.
Components: Class
Prereqs/Coreqs: P: MECHNCHL 3040 and a grade of C- or better in GENENG 2340

MECHENG 3300 3 credits
Fluid Dynamics
Fluid properties, fluid statics, fundamental equations of fluid motion, dimensional analysis, external flow and boundary layers, viscous flow in pipes, compressible flow.
Components: Laboratory, Class
Prereqs/Coreqs: P: GENENG 2230 with a C- or better or ENGRPHYS 3240; and MATH 2840 and MECHNCHL 2630

MECHENG 3330 3 credits
Design of Machine Elements
Nonstandard loading, deflection analysis, failure theories for static and cyclic loading followed by safety considerations. Design and selection of a wide range of machine elements such as fasteners, springs, shafts, bearings, and gears. Dimensioning, fits and tolerances and design communication. Open-ended design project.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: MECHNCHL 3040 and a minimum grade of "C-" in GENENG 2030 and GENENG 2340

MECHENG 3430 3 credits
Introduction to Computational Methods
An introduction to structured programming with engineering applications. Fundamental programming concepts, algorithm development, and debugging. Introduce and apply concepts in linear algebra to engineering problems in statics, dynamics and other professional engineering courses. Problems include solving systems of linear equations, root finding, eigenvalues and eigenvectors, and regression.
Components: Laboratory, Class
Prereqs/Coreqs: C: MATH 3630 and student must be in a degree granting engineering program

MECHENG 3640 3 credits
Heat Transfer
Components: Laboratory, Class
Prereqs/Coreqs: P: MECHNCHL 3430 (or COMPUTER 1430 and MATH 3630); C: MECHNCHL 3300

MECHENG 3720 3 credits
Mechanical Systems Laboratory
Introduction to engineering laboratory equipment, experimental procedures, report writing, automated data acquisition, including computer programming and statistical analysis. Emphasis is on the experimental analysis of mechanical systems, including topics such as vibrations, strain gauges, and DC motors, along with the electronics used to instrument and measure these systems.
Components: Laboratory, Class
Prereqs/Coreqs: P: MECHNCHL 3040; C: MECHNCHL 3030

MECHENG 3830 3 credits
Mechanisms and Machines
Design and analysis of mechanisms and machines. A study of simple machines such as linkages, geared systems, and cam-follower systems. Topics include mechanism motion and performance (position, velocity, acceleration, force transmission, etc.), actuators, and design considerations to improve machine performance. The use of a customer-based, systematic design process to design and develop a working mechanism.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: A grade of "C-" or better in GENENG 2230 or ENGRPHYS 3240 and GENENG 2030
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Components</th>
<th>Prereqs/Coreqs</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHENG 3950</td>
<td>4</td>
<td>Mechanical Engineering Cooperative Education</td>
<td>Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. During co-op the student is expected to be away from his/her studies at UW-Platteville and work for an industry for a semester and summer. Credits do not fulfill graduation requirements. Minimum cumulative GPA of 2.50 is recommended for participation.</td>
<td>Components: Field Studies</td>
<td>P: junior standing</td>
</tr>
<tr>
<td>MECHENG 3970</td>
<td>1</td>
<td>Mechanical Engineering Internship</td>
<td>Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. NOTE: This program is separate and distinct from the cooperative education program and is principally designed to cover the summer work experience. Internship is designed to provide experiential learning experience to the student during the summer period. Credits do not fulfill graduation requirements.</td>
<td>Components: Field Studies</td>
<td>P: junior standing</td>
</tr>
<tr>
<td>MECHENG 4330</td>
<td>3</td>
<td>Automatic Controls</td>
<td>The design and analysis of feedback control systems using root locus, frequency response and state space methods. The specification, analysis, and compensation of feedback systems. Laboratory demonstrates the practical application of theoretical concepts.</td>
<td>Components: Laboratory, Class</td>
<td>P: MECHNCHL 3030 and GENENG 2930, or ENGRPHYS 3240 and ELECTENG 2220</td>
</tr>
<tr>
<td>MECHENG 4440</td>
<td>3</td>
<td>Failure of Materials</td>
<td>Fatigue and fracture of materials are covered. Included are stress-life and strain-life analysis, fracture mechanics, stress concentration influences and variable amplitude loading. The design component of the course is done using CAD, FEA simulation, and fatigue life prediction software. Using commercially available software gives the students experience designing realistic components subjected to variable fluctuating load histories. Mechanical testing principles and principles for recognition of fatigue failure from fracture surfaces are also introduced in the course.</td>
<td>Components: Laboratory, Class</td>
<td>P: MECHNCHL 3040</td>
</tr>
<tr>
<td>MECHENG 4500</td>
<td>3</td>
<td>Biomedical Engineering</td>
<td>An overview of the human physical system as a context for engineering design. Introduction to the functional basis of physiologic systems. Instrumentation, biomechanics, and design of medical devices. Principles of accessibility, and universal design.</td>
<td>Components: Discussion, Class</td>
<td>P: senior standing in engineering or consent of instructor</td>
</tr>
<tr>
<td>MECHENG 4520</td>
<td>3</td>
<td>Power Plant Design</td>
<td>Analysis and design of steam power systems. Combustion turbines. Renewable energy. Environmental aspects and economics of power generation. Recent developments, future trends, and societal issues in power industry.</td>
<td>Components: Discussion, Laboratory, Class</td>
<td>P: MECHNCHL 2630</td>
</tr>
<tr>
<td>MECHENG 4550</td>
<td>3</td>
<td>Heat Transfer Applications</td>
<td>Review of conduction, convection, and radiation heat transfer. Extension to variable properties and more complex geometrics. Current heat transfer problems and applications such as electronic cooling, heat pipes, capillary pumped loops, and cryogenic heat transfer. Survey of currently used correlations and numerical techniques. Application of the current state-of-the-art to design problems.</td>
<td>Components: Discussion, Class</td>
<td>P: MECHNCHL 3640</td>
</tr>
<tr>
<td>MECHENG 4560</td>
<td>3</td>
<td>Computational Fluid Dynamics</td>
<td>Introduction to computational fluid dynamics (CFD) with emphasis on using a commercial software package. Concepts of consistency, stability, convergence, scheme order, and turbulence modeling from the practitioner's viewpoint are covered. Simulations of steady and unsteady flows, compressible and incompressible flows, forced and natural convection heat transfer, and conduction in solids are performed.</td>
<td>Components: Laboratory, Class</td>
<td>P: MECHNCHL 3300 and MECHNCHL 3430 (or COMPUTER 1430 and MATH 3630)</td>
</tr>
<tr>
<td>MECHENG 4600</td>
<td>3</td>
<td>Energy Systems Design</td>
<td>Design and analysis of energy conversion systems with emphasis on solar energy. Flat plate and concentrating collectors for air and liquids, storage flow and control systems requirements, solar electric power generation. Wind energy conversion, biomass.</td>
<td>Components: Discussion, Laboratory, Class</td>
<td>P: MECHNCHL 3640</td>
</tr>
<tr>
<td>MECHENG 4630</td>
<td>3</td>
<td>Internal Combustion Engine Design</td>
<td>Design of internal combustion engines for various applications. Gasoline engines, diesel engines, 4 stroke cycles and 2 stroke cycles.</td>
<td>Components: Discussion, Laboratory, Class</td>
<td>P: MECHNCHL 3640</td>
</tr>
</tbody>
</table>
MECHENG 4640 3 credits
Mechanical Design of Internal Combustion Engines
Mechanical design and experimental development of internal combustion engines to meet comprehensive design criteria: marketability, thermodynamic performance, dynamic issues, efficiency, lubrication, emissions, economy, drivability, design for manufacture.
Components: Laboratory, Class
Prereqs/Coreqs: P: MECHNCHL 4730; C: MECHNCHL 4630

MECHENG 4650 3 credits
Environmental Control Design
Theory and design of heating, air conditioning and refrigeration units. Heating and cooling loads for air conditioning, heat pump, psychrometry.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: MECHNCHL 3640 and MECHNCHL 4730

MECHENG 4720 2 credits
Thermal Systems Laboratory
Instrumentation and measurement techniques in thermal systems; verification of basic principles; laboratory tests on components of thermal systems; experimental approach for solving engineering problems; application of computer to data acquisition and data processing.
Components: Laboratory
Prereqs/Coreqs: P: MECHNCHL 3300 and MECHNCHL 3640. C: MECHNCHL 3720

MECHENG 4730 3 credits
Thermo-Fluid Systems Design
A course treating the concepts of Thermodynamics, Fluid Mechanics, Heat Transfer, and mechanics in a unified presentation. Particular emphasis will be directed towards applications to actual physical systems including the gas power cycles, refrigeration cycles, heat exchangers, ideal gas mixtures, psychrometrics and 1st law combustion. Some design of devices involved in these applications will also be included.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: MECHNCHL 3300 and MECHNCHL 3640

MECHENG 4740 3 credits
Mechanical Systems Design
Advanced topics in the design of machines and mechanical systems. Selection of machine elements implementing the design process and considering factors such as: the environment, manufacturability, assembly, ergonomics, aesthetics, safety, societal impact, reliability and maintainability. Also, economic factors, fits and tolerances, design communication and ethics. Application of fundamental concepts via a project.
 Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: MECHNCHL 3330

MECHENG 4750 3 credits
Computational Methods in Engineering
Use of digital computers to solve equations encountered in mechanical engineering problems. Numerical integration and differentiation, solution of linear and nonlinear equations, ordinary and partial differential equations (finite element and finite difference methods), systems of equations (matrix equations). Programming using MATLAB. How to choose the proper numerical method, and pitfalls that lead to bad solutions.
Components: Class
Prereqs/Coreqs: P: MATH 3630 and ([MECHNCHL 3430] or [COMPUTER 1430 and ENGRPHYS 3240])

MECHENG 4800 3 credits
Finite Element Method
Introduction to the finite element method. Emphasis on truss, beam and frame analysis, plane stress, plane strain, axisymmetric and three-dimensional stress analysis. Dynamic analysis and field problems, such as heat transfer. Readily available finite element computer programs utilized to solve stress analysis, heat transfer and other engineering related problems.
Components: Discussion, Class
Prereqs/Coreqs: P: MATH 3630 and MECHNCHL 3330 and (MECHNCHL 3430 or COMPUTER 1430)

MECHENG 4830 3 credits
Mechatronics
Study of electro-mechanical systems and their interfaces. Programming of microcontrollers, fractional-horsepower motors, sensors, programmable logic controllers (PLC’s), and control electronics. Binary number systems and logic are introduced. Application of control theory project.
Components: Laboratory, Class
Prereqs/Coreqs: C: MECHNCHL 4330 or ELECTENG 3310

MECHENG 4840 3 credits
Vibration Systems Design
Modeling and analysis of single and multiple-degree of freedom systems. Free and forced vibrations. Vibrations applications such as balancing, whirling, vibration instruments, vibration isolation, and suspension. Computer applications involving matrices, eigenvalues, eigenvectors, and differential equations. Design of mechanical systems involving vibrations.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: MECHNCHL 3030, or ENGRPHYS 3240 and ELECTENG 2220

MECHENG 4850 3 credits
Computer-Aided Engineering
Use of current tools in the design and simulation of mechanical systems. Generation of a paperless project, including solid modeling and computer assembly of mechanical systems, system dynamic analysis, and system optimization. Interfaces between various computer software packages and the creation of computer routines to extend built in software modeling capabilities.
Components: Laboratory, Class
Prereqs/Coreqs: P: MECHNCHL 3830
MECHENG 4930  
Senior Design Project  
Team based projects, primarily from industry. Rigorous application of design processes and methods. Consideration of real-life technical, economic, social, aesthetic, environmental and other constraints. Consideration of several related topics such as creativity, analysis, synthesis, project management, scheduling, time management, engineering ethics, communication, personality types, product safety and liability, copyrights and patents, design for manufacture, economics, and robust engineering. Integration of technical and management knowledge in an open-ended design environment. Oral and written reports. Open to graduating seniors only.  
Components: Class  
Prereqs/Coreqs: P: MECHNCHL 3230 and MECHNCHL 3330 and MECHNCHL 3830 and MECHNCHL 4730

MECHENG 4980  
1–3 credits  
Current Topics in Engineering  
In-depth study of a current topic of interest to the engineering profession. The topic to be covered will be identified in the course title.  
Components: Discussion, Laboratory, Class

MECHENG 4990  
1–3 credits  
Independent Study  
Advanced study in the area of specialization.  
Components: Independent Study  
Prereqs/Coreqs: P: senior standing

MEDIA STUDIES

MEDIA 1030  
1 credit  
Media Technologies I (Image Manipulation)  
An introduction to photo manipulation software, taught on the Macintosh platform.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: Media Studies major or minor; C: MEDIA 1110 and MEDIA 1130

MEDIA 1050  
1 credit  
Software: Illustrator Basic  
An introductory course to image creation and manipulation software, taught on the Macintosh platform.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: Media Studies major or a minor in Social Media, Public Relations, Social Media, Photography, Web Development, Video and Audio or Journalism or consent of instructor

MEDIA 1100  
1 credit  
Software: Flash Basic  
An introduction to software for Web pages, animation, and multimedia. (Fall and Spring)  
Components: Laboratory, Class  
Prereqs/Coreqs: P: Media Studies major or a minor in Social Media, Public Relations, Social Media, Photography, Web Development, Video and Audio or Journalism or consent of instructor

MEDIA 1110  
1 credit  
Media Technologies II (Video)  
Theory and practice in the process of video production via the single camera method. Topics include basic camera technique and computer-based editing.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: Media Studies major or minor; C: MEDIA 1030 and MEDIA 1130

MEDIA 1130  
1 credit  
Media Technologies III (Web)  
An introduction to the use of this Web page development software.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: Media Studies major or minor; C: MEDIA 1030 and MEDIA 1110

MEDIA 1140  
1 credit  
Integrated Design Software  
A hands-on course on how to develop technology skills and software skills of student learners to enable them to plan, design, and carry out a digital design project. Intermediate techniques on Adobe design software (including Photoshop, InDesign, Illustrator, Flash and Dreamweaver) will be taught on the Macintosh platform.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: MEDIA 1030 or MEDIA 1050 or MEDIA 1100 or MEDIA 1130 or MEDIA 1160

MEDIA 1160  
1 credit  
Software: InDesign Basic  
This is an introduction to Adobe InDesign, page layout software, taught on the Macintosh.  
Components: Class  
Prereqs/Coreqs: P: Media Studies major or a minor in Social Media, Public Relations, Social Media, Photography, Web Development, Video and Audio or Journalism or consent of instructor

MEDIA 1230  
3 credits  
Visual Communication  
A foundation course emphasizing the fundamental concepts of visual communication. The principles covered include form, structure, color theory, visual aesthetics, semiotics, and organizational systems as applied to the relationship of ext and image throughout visual media.  
Components: Laboratory, Class

MEDIA 1360  
3 credits  
Public Relations Principles  
The field of public relations is explored, stakeholder categories identified, and common techniques and strategies examined in this course.  
Components: Class

MEDIA 1630  
3 credits  
Introduction to Mass Media  
Survey of mass communication theory and the role of mass media in society. Analysis of media evolution, structure, economics, effects, and control.  
Components: Class  
GE: Social Sciences
MEDIA 1730  
Introduction to Media Studies  
3 credits  
A survey of Media Studies, including operational theory as well as practical application -- a total introductory approach to the study of electronic communication.  
Components: Class

MEDIA 1930  
3 credits  
Basic Photography  
An introduction to basic photography and darkroom techniques encompassing film selection, exposure variables, camera accessories, and lighting. Photographic history and contemporary issues will also be incorporated. A working digital single lens reflex camera is required or may be rented from the department.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: Communication Technologies or Media Studies major or a minor in Imaging Media, Public Relations, Social Media, Photography, Web Development, Video and Audio or Journalism or consent of instructor

MEDIA 2030  
3 credits  
Basic Newswriting and Reporting  
This course emphasizes news gathering, interviewing, research, writing techniques, Associated Press style, and knowledge of current events. Students will write frequently, both for publication and in the laboratory setting.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: ENGLISH 1230

MEDIA 2050  
3 credits  
Writing for Electronic Media  
Techniques and script styles used in writing non-journalistic copy with an emphasis on persuasive messages for radio and television.  
Components: Class  
Prereqs/Coreqs: P: MEDIA 1630

MEDIA 2090  
3 credits  
Web Development: Basics  
This course provides an introduction to the basic concepts and techniques related to designing, developing and deploying web sites. During the course, students will learn about visual design, site management, implementing style sheets and adding interactivity. Topics include: HTML, XHTML, CSS, and JavaScript.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: Media Studies major or a minor in Social Media, Public Relations, Social Media, Photography, Web Development, Video and Audio or Journalism or consent of instructor

MEDIA 2470  
3 credits  
Production Foundations  
Theory and practice in the process of video production via the single camera and studio methods. Topics include production systems, pre-production, camera functions and techniques, audio console, switcher, editing and distribution.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: MEDIA 1030 AND MEDIA 1110 AND MEDIA 1130 or Film Studies minor or Tech Ed major with instructor consent

MEDIA 2530  
3 credits  
Digital Audio Production  
Theory and practice regarding the nature of sound, listening, auditory storytelling, hardware/software, techniques and practices as they pertain to audio production and related industries. Emphasis will be on analyzing, planning, producing and assembling a variety of technically proficient and aesthetically pleasing audio productions. Hands-on learning activities utilize the department’s digital audio production studio.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: Media Studies major or a minor in Social Media, Public Relations, Social Media, Photography, Web Development, Video and Audio or Journalism or consent of instructor

MEDIA 3010  
3 credits  
Business Communication  
Communication strategies and techniques used in business; practice in writing effective memos, letters and reports; oral communication skills developed in influencing group decisions and making presentations; employment correspondence and interviewing. Majors in Communication Technologies must earn a grade of C or better to satisfy writing competency requirements for graduation.  
Components: Class  
Prereqs/Coreqs: P: ENGLISH 1230 and SPEECH 1010

MEDIA 3030  
3 credits  
Multimedia Projects  
This course is an in-depth look at contemporary issues in culture, theory, and design as they relate to emerging digital interactive technologies. Students will undertake digital projects utilizing various interactive media, methods, and practices.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: MEDIA 1100 and MEDIA 2090

MEDIA 3090  
3 credits  
Web Development: Intermediate  
This is an intermediate level course focused on developing dynamic websites to provide a rich and responsive interface. Students will be introduced to server-side Web development concepts which consist of scripting languages, database application, Content Management System (CMS) and Search Engine Optimization (SEO).  
Components: Laboratory, Class  
Prereqs/Coreqs: P: MEDIA 2090

MEDIA 3100  
1–3 credits  
Topics in Media Studies  
Current topics discussed in this course vary by demand.  
Components: Laboratory, Class  
Prereqs/Coreqs: P: consent of instructor

MEDIA 3120  
3 credits  
Applied Communication  
Supervised practical experience in imaging media, graphics, campus publications, social media, or the radio and television facilities. Maximum of 9 credits of Media Studies 3120, and Media Studies 4030 will be applied to the major.  
Components: Laboratory  
Prereqs/Coreqs: P: consent of instructor
MEDIA 3150  3 credits
Communication Research
This course will prepare students to evaluate, conduct, and present research in the area of communication technologies studies.
Components: Class
Prereqs/Coreqs: P: ENGLISH 1230 and MEDIA 1630

MEDIA 3200  3 credits
Gender and Popular Culture
This course examines the theoretical and practical ways that popular culture represents, creates, and challenges stereotypes of women, men, and differently gendered people. Students will explore dominant strategies and theories used in the creation and analysis of advertising, television, music, movies, and popular literature, as well as the emerging commercial media of Internet advertising, digitized movies, and blogs. We will focus primarily, but not exclusively on popular culture experienced within (or exported from) the United States.
Components: Class
Cross Offering: WOMGENDR 3200
GE: Gender Studies, Social Sciences
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and Media 1630 or WOMSTD 1130

MEDIA 3240  3 credits
Studio Production
This course covers advanced theory and practice in producing and directing video programming in a studio setting.
Components: Laboratory, Class
Prereqs/Coreqs: P: MEDIA 2470

MEDIA 3290  3 credits
Radio Station Procedures
This course is a study of radio station operations and procedures, including organizational structure, programming, sales, engineering, management, the impact of technology and law.
Components: Class
Prereqs/Coreqs: P: MEDIA 1630

MEDIA 3500  3 credits
Photography II
A thorough study of the technologies and techniques of photography, with emphasis on applications to real photographic problems. This course provides technical information and in-depth knowledge of equipment, as well as experience with a variety of essential photographic principles and procedures. A working digital single lens reflex camera is required or may be rented from the department.
Components: Laboratory, Class
Prereqs/Coreqs: P: MEDIA 1030 and MEDIA 1930

MEDIA 3560  3 credits
Digital Journalism Production
Theory and practice in news gathering for multi-platform distribution; emphasis on writing, use of digital video field production equipment and video editing software. Discussion of news management, ethics, aesthetics and technical aspects of producing news with digital acquisition media.
(Every two years)
Components: Laboratory, Class
Prereqs/Coreqs: P: MEDIA 2030

MEDIA 3580  3 credits
Documentary
Explore, examine and assess the development, forms and subject matter of the documentary, beginning with its roots in film and continuing into television, including an understanding of documentary's impact on society and social institutions. In particular with regards to subject, most of the films examine topics of social importance. This is not a production class. This course's goals are accomplished through lecture, discussion, preparing of academic papers and viewing of numerous socially relevant documentaries.
Components: Class
Prereqs/Coreqs: P: MEDIA 1630

MEDIA 3590  3 credits
Social Media and Society
Theory and application of social media in a variety of contexts: including personal, business, traditional media and social change. (Spring)
Components: Class
Prereqs/Coreqs: P: MEDIA 1030 and MEDIA 1110 and MEDIA 1130 and MEDIA 1630

MEDIA 3660  3 credits
Performance for Electronic Media
Basic principles and techniques of on-air electronic communication performance are explored. Skills are developed for use in a variety of venues. Topics include voice and diction, interviewing techniques, appearance, and script analysis. (Every two years)
Components: Laboratory, Class
Prereqs/Coreqs: P: MEDIA 2470

MEDIA 3730  3 credits
Project Writing and Reporting
Students will take the skills and experience gained in previous writing courses and apply them to a significant, semester-long project that will be published in the student newspaper. Emphasis will be placed on developing a meaningful topic for a project, researching public records, conducting in-depth interviews, and melding a series of articles into a coherent package. Working in groups and optimizing the talents of individual group members is vital to success in this course. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: MEDIA 2030 or MEDIA 2050
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
</table>
| MEDIA 3770  | 3 credits| Theories of Media and Culture | This class will examine the mass media from a critical perspective. We will examine the role of culture in everyday life and how media influences life by operating as a conduit for culture and ideology. (Spring even years)  
Components: Class  
GE: Social Sciences  
Prereqs/Coreqs: P: ENGLISH 1230 and MEDIA 1630 |
| MEDIA 3800  | 3 credits| Meetings and Events | This course explores the meetings industry, including association, corporation, and government meetings. Students also examine conventions, trade shows, incentive travel, and special events. (Spring)  
Components: Class  
Prereqs/Coreqs: P: junior standing |
| MEDIA 3830  | 3 credits| Editing for the Media | Practice in writing and editing news copy, proof-reading, page design, headline writing, and using wire copy. Examination of personnel and ethical problems editors face. (Fall every two years)  
Components: Laboratory, Class  
Prereqs/Coreqs: P: MEDIA 2030 |
| MEDIA 3840  | 3 credits| Production Capstone | This course offers advanced theory and practice in single camera format video production, including linear and non-linear editing. (Spring)  
Components: Laboratory, Class  
Prereqs/Coreqs: P: MEDIA 2050 and MEDIA 2470 or Film Studies minor with instructor consent |
| MEDIA 3860  | 3 credits| Media Advertising and Sales | Analysis of the sales function in broadcasting and print media. Comparative strengths and weaknesses of advertising media. Theory and practice in media sales techniques.  
Components: Class  
Prereqs/Coreqs: P: MEDIA 1630 |
| MEDIA 3930  | 3 credits| Communication Law | Legal rights and responsibilities of the media; case studies of libel, privacy invasion, contempt of court, and copyright. Comparison of legal and ethical rights. (Fall and Spring)  
Components: Class  
Prereqs/Coreqs: P: MEDIA 1630 |
| MEDIA 4030  | 3 credits| Applied Communication | Supervised practical experience in imaging media, graphics, campus publications, social media, or the radio and television facilities. Maximum of 9 credits of Media 3120, and Media 4030 will be applied to the major.  
Components: Laboratory  
Prereqs/Coreqs: P: MEDIA 3120 or consent of instructor |
| MEDIA 4040  | 1–3 credits| Communication Practicum | This course offers students the opportunity to apply knowledge of broadcast production, imaging media, journalism, and public relations to campus activities outside the Department of Media Studies. Variable credit is dependent upon the number of anticipated work hours. This course may be taken only once, regardless of the number of credits.  
Components: Field Studies  
Prereqs/Coreqs: P: junior standing and consent of the department practicum coordinator |
| MEDIA 4050  | 2 credits| Professional Practice | A capstone course for advanced imaging media students to learn the skills necessary for professional life such as portfolio development and presentation, proposal writing, and research skills. (Spring)  
Components: Class  
Prereqs/Coreqs: P: consent of instructor |
| MEDIA 4140  | 3 credits| U.S. Investigative Journalism | Students will examine the role of investigative journalism in influencing cultural trends and political events since the Kennedy administration. Print journalism is the primary focus, but the rise of television journalism will be addressed. (Fall every two years)  
Components: Class  
Prereqs/Coreqs: P: Media Studies or Media Studies major or minor and junior standing |
| MEDIA 4270  | 3 credits| Volunteers, Fundraising, and Grants | Volunteer recruitment and management, fundraising, grant seeking, grant writing, and grant management will be investigated in this course. (Spring)  
Components: Class  
Prereqs/Coreqs: P: Media Studies minor with instructor consent |
| MEDIA 4450  | 3 credits| Crisis Planning & Communication | This course explores the foundations, current theory, issues, ethics, and strategies in crisis planning and communication. Case studies will examine successes and failures in managing crises. Students will develop a crisis plan and will conduct a mock-crisis management exercise. (Fall)  
Components: Class |
| MEDIA 4500  | 3 credits| Photography III | Develop your critical and technical skills. This course places emphasis on craftmanship, problem solving, and visual communications. Students will participate in critiques of their own work and that of fellow students, and work on acquisition of technical control and technique. Sequencing, context, content, and contemporary issues are discussed. A working digital single lens reflex camera is required or may be rented from the department. (Fall)  
Components: Laboratory, Class  
Prereqs/Coreqs: P: MEDIA 3500 |
MEDIA 4710 1–3 credits
Independent Study
Research on a topic of student interest, culminating in a final project or paper of merit, and evaluated by a staff member. (Fall and Spring, Summer) Components:
Prereqs/Coreqs: P: consent of department chair

MEDIA 4990 1–3 credits
Communication Internship
An on-the-job assignment commensurable with the student's emphasis and career goals. May be repeated once; however, each experience must be significantly different to provide breadth within the field. Internships require a minimum of 50 hours on-the-job for each credit. Graded on a pass/fail basis. (Fall and Spring, Summer) Components: Field Studies Prereqs/Coreqs: P: good academic standing with at least 60 overall credits earned or in progress; have completed at least 21 Media Studies credits; and have approval from advisor

MICROSYSTEMS AND NANOTECHNOLOGY

MSNT 1010 1 credit
Introduction to Microsystems and Nanotechnology
An introductory course that will provide the opportunity for new engineering students to explore the UW-Platteville Microsystems & Nanotechnology Engineering program through several hands-on modules, representing the wide range of topics in this field. Emphasis will be placed on written and oral communication skills, data collection and analysis, computer application skills and group work. Semester course which meets two hours per week. (Spring) Components: Laboratory Prereqs/Coreqs: C: GENENG 1000 and MATH 1530 or higher or consent of instructor

MSNT 3940 4 credits
Principles and Applications of Nanotechnology
This course is an introduction to nanometer scale aspects of chemistry, physics, and biology, and how these aspects can be combined to provide solutions to engineering problems. Recent applications will be presented as case studies, including sensors, biology & medicine, electronics, and new materials. An extensive series of hands-on laboratory activities is a central part of the course. Students will fabricate and characterize nanoscale structures using a variety of techniques from biology, chemistry, and materials science. Principles of operation of several measurement techniques that underpin this field will be presented, as will social, legal, and ethical aspects of nanotechnology. This course is required for the Minor and Major in Microsystems and Nanotechnology. (Spring) Components: Laboratory, Class Prereqs/Coreqs: P: CHEMSTRY 1240 or CHEMSTRY 1450

MSNT 3950 4 credits
Microsystems & Nanomaterials Coop
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. During co-op the student is expected to be away from his/her studies at UW-Platteville and work for an industry for a semester and summer. Credits do not fulfill graduation requirements. Minimum cumulative GPA of 2.50 is recommended for participation. Components: Field Studies

MSNT 3970 1 credit
Microsystems & Nanomaterials Engineering Internship
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. NOTE: This program is separate and distinct from the cooperative education program and is principally designed to cover the summer work experience. Internship is designed to provide experiential learning experience to the student during the summer period. Credits do not fulfill graduation requirements. Components: Field Studies

MSNT 4000 1–3 credits
Research in Microsystems and Nanotechnology
An opportunity for qualified undergraduates to obtain firsthand, supervised research experience in the fields of microsystems and nanomaterials. This course will have a working knowledge of the scientific process, including hypothesis development, experimental design, use of instrumentation, evaluation of data, and reporting, including a mid-term update. A written formal report is required for the completion of this course. A student may register for one to three credits in a given semester. (Fall and Spring, Summer) Components: Class Prereqs/Coreqs: P: Junior standing, "C-" or better in English 1230 and MSNT 3940 or MSNT 4230

MSNT 4230 3 credits
Design, Fabrication, and Simulation of MEMS
This course is an introduction to Microelectromechanical Systems (MEMS) technology. It covers basic microfabrication technologies, the governing physics for MEMS devices in different energy domains (mechanical, electrical, optical, thermal, and fluidic), and the analysis of micromachined miniature sensors and actuators. Fabrication and design of MEMS devices will be illustrated using laboratory projects and examples of existing research prototypes and commercial products. Students will also learn how to design, lay out, and fabricate MEMS using CAD based design and visualization software. Components: Laboratory, Class Prereqs/Coreqs: P: GENENG 2340 and MATH 2740
Capstone Research
This course provides students a unique, “capstone” opportunity to conduct research in collaboration with their peers and integrate knowledge from the different areas of microsystems and nanomaterials. With assistance from a faculty coordinator, students from all areas of MSNT will work together to complete their individual independent research projects. Students will produce a manuscript-quality report and make a formal presentation on their research.

Components: Independent Study
Prereqs/Coreqs: P: MSNT 4000 or CHEMISTRY 4000 or BIOLOGY 4920 and a C- or better in 2 MSNT 3000 or 4000 level courses

Current Topics in Microsystems & Nanomaterials
In-depth study of a current topic of interest to the microsystems & nanomaterials profession. The topic to be covered will be identified in the course title.

Components: Discussion, Laboratory, Class

MUSIC APPLIED

MUAP 1010 1 credit
First Semester Lessons
Components: Independent Study

MUAP 1110 1 credit
Second Semester Lessons
Components: Independent Study

MUAP 2010 1 credit
Third Semester Lessons
Components: Independent Study

MUAP 2110 1 credit
Fourth Semester Lessons
Components: Independent Study

MUAP 3010 1 credit
Fifth Semester Lessons
Private instruction in voice, piano, and orchestra and band instruments. Must be concurrently enrolled in Wind Ensemble, Symphony Band, Sinfonietta, University/Community Orchestra, Marching Pioneers, Concert Choir, University Singers, or Chamber Choir. One half-hour lesson per week per credit. There are no applied music fees above the regular tuition charge, but special course fees (i.e., purchase of music) may apply. Lesson times and instructors to be arranged.

Components: Independent Study
Prereqs/Coreqs: P: must have successfully completed upper divisional examination before enrolling; C: participation in major ensemble as listed above

Sixth Semester Lessons
Private instruction in voice, piano, and orchestra and band instruments. Must be concurrently enrolled in Wind Ensemble, Symphony Band, Sinfonietta, University/Community Orchestra, Marching Pioneers, Concert Choir, University Singers, or Chamber Choir. One half-hour lesson per week per credit. There are no applied music fees above the regular tuition charge, but special course fees (i.e., purchase of music) may apply. Lesson times and instructors to be arranged.

Components: Independent Study
Prereqs/Coreqs: P: must have successfully completed upper divisional examination before enrolling; C: participation in major ensemble as listed above

Seventh Semester Lessons
Private instruction in voice, piano, and orchestra and band instruments. Must be concurrently enrolled in Wind Ensemble, Symphony Band, Sinfonietta, University/Community Orchestra, Marching Pioneers, Concert Choir, University Singers, or Chamber Choir. One half-hour lesson per week per credit. There are no applied music fees above the regular tuition charge, but special course fees (i.e., purchase of music) may apply. Lesson times and instructors to be arranged.

Components: Independent Study
Prereqs/Coreqs: P: must have successfully completed upper divisional examination before enrolling; C: participation in major ensemble as listed above

Eighth Semester Lessons
Private instruction in voice, piano, and orchestra and band instruments. Must be concurrently enrolled in Wind Ensemble, Symphony Band, Sinfonietta, University/Community Orchestra, Marching Pioneers, Concert Choir, University Singers, or Chamber Choir. One half-hour lesson per week per credit. There are no applied music fees above the regular tuition charge, but special course fees (i.e., purchase of music) may apply. Lesson times and instructors to be arranged.

Components: Independent Study
Prereqs/Coreqs: P: must have successfully completed upper divisional examination before enrolling; C: participation in major ensemble as listed above

Recital Semester
For students who are finishing their performance training and preparing their recital. Students will learn the basics of assembling a recital program, perform an extended recital jury for several members of the faculty, work on performance decorum, learn to coordinate their work with accompanists, and write program notes.

Components: Independent Study
### MUSIC 1000
0 credit
**Performing Ensembles**
Students signing up for MUSIC 1000 will be able to participate in one of the university performing ensembles for 0 credit. This course will have the same meeting times and expectations as the one credit ensemble, but will be graded as a pass/fail. The student will need to make sure they register for the correct Section under the MUSIC 1000 course to be placed in the proper ensemble. MUSIC 1000 will not count toward General Education requirement.

Components: Laboratory

### MUSIC 1090
1 credit
**Bodywork for Musicians**
Practically based course in posture and psycho-physical awareness. Specific topics include Alexander Technique and Feldenkrais. Required for all music majors.

Components: Class

### MUSIC 1100
1 credit
**Jazz Ensemble**
Jazz Ensemble I and Jazz Ensemble II are the two Ensembles in our curriculum. These ensembles regularly study and perform works from the entire history of jazz literature. Students are expected to submit writing assignments periodically as part of the course structure. These assignments involve the assessment of historical, cultural, and aesthetic aspects of the literature. To receive Fine Arts General Education credit you must take this course three times.

Components: Laboratory
GE: Fine Arts

### MUSIC 1190
1 credit
**World Rhythm Rudiments**
Methods and techniques from around the world will be used to develop rhythmic concepts, reading skills and improvisation through the use of natural sticking, rudiments, and patterns used in drumming from Western, African, Brazilian and Afro-Cuban traditions.

Components: Class

### MUSIC 1200
1 credit
**Percussion Ensemble**
Open to performers by permission from faculty within respective field.

Components: Laboratory

### MUSIC 1250
1 credit
**Pioneer Steel Band**
Students will study and perform steel band music from the Caribbean, Africa, and the Americas. Designed to promote a student’s development as a performer on the steel pan and percussion instruments, while also emphasizing stylistic interpretation and ensemble etiquette. A wide variety of steel band music and styles will be presented and analyzed. Students will also be offered opportunities to work on improvisation techniques appropriate to steel band literature. This is a performance-based class, and sessions will be conducted in a professional rehearsal environment. The ensemble will have several performance opportunities throughout the school year.

Components: Laboratory
Prereqs/Coreqs: P: consent of instructor

### MUSIC 1290
1 credit
**Computer Applications in Music Education**
This course is an introduction to computer applications in music education using the Finale Music Notation Software Program and Apple Works 6. With Finale students will create music scores, learn how to add music markings, extract and print parts and how to use MIDI keyboard. With Apple 6 students will create spread sheets for grading private lessons and band attendance, do a mail merge and create word processing documents. Students will be required to use the Internet to find sheet music, musical databases and recordings for use in teaching and research.

Components: Class

### MUSIC 1300
1 credit
**Brass Ensemble**
Open to performers by permission from faculty within respective field.

Components: Laboratory

### MUSIC 1340
1 credit
**Piano Techniques - First Semester**
First semester. Class piano lessons open to all university students. New piano students with previous piano study must audition during registration week to determine placement in the proper section.

Components: Class

### MUSIC 1400
1 credit
**Jazz Combo**
Open to performers by permission from faculty within respective field.

Components: Laboratory

### MUSIC 1440
1 credit
**Piano Techniques - Second Semester**
Second semester. Class piano lessons open to all university students. New piano students with previous piano study must audition during registration week to determine placement in the proper section.

Components: Class

### MUSIC 1500
1 credit
**Chamber Ensemble**
Open to performers by permission from faculty within respective field.

Components: Laboratory

### MUSIC 1510
1 credit
**University/Community Orchestra**
The University/Community Orchestra regularly study and perform works from the entire history of orchestral literature. Students are expected to submit writing assignments periodically as part of the course structure. These assignments involve the assessment of historical, cultural, and aesthetic aspects of the literature. To receive Fine Arts General Education credit you must take this course three times.

Components: Laboratory
GE: Fine Arts
<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
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</table>
| **MUSIC 1530** | 1 credit | Aural Skills I  
To be taken with MUSIC 1730. Singing intervals, rhythms and melodies at sight.  
**Components:** Class  
**Prereqs/Coreqs:** C: MUSIC 1730 |
| **MUSIC 1590** | 3 credits | Music Appreciation  
A guide to musical enjoyment and understanding through the examination of composition representative of the various musical forms, styles and media. May be used to satisfy partially the university humanities general requirement; not open for credit to music majors.  
**Components:** Class  
**GE:** Fine Arts |
| **MUSIC 1600** | 1 credit | Woodwind Ensemble  
Open to performers by permission from faculty within respective field.  
**Components:** Laboratory |
| **MUSIC 1610** | 1 credit | University Bands  
Symphonic Wind Ensemble and Symphony Band are the two concert bands in our curriculum. These ensembles regularly study and perform works from the entire history of band literature. Students are expected to submit writing assignments periodically as part of the course structure. These assignments involve the assessment of historical, cultural, and aesthetic aspects of the literature. To receive Fine Arts General Education credit you must take this course three times.  
**Components:** Laboratory  
**GE:** Fine Arts |
| **MUSIC 1630** | 1 credit | Aural Skills II  
To be taken with MUSIC 1830. Singing intervals, rhythms and melodies at sight.  
**Components:** Class  
**Prereqs/Coreqs:** C: MUSIC 1830 |
| **MUSIC 1710** | 1 credit | Choir  
Chamber Choir, University Singers, and Concert Choir regularly study and perform works from the entire history of choral literature. Students are expected to submit writing assignments periodically as part of the course structure. These assignments involve the assessment of historical, cultural, and aesthetic aspects of the literature. To receive Fine Arts General Education credit you must take this course three times.  
**Components:** Laboratory  
**GE:** Fine Arts |
| **MUSIC 1730** | 3 credits | Music Theory I: Music Theory Fundamentals with MIDI  
An introductory course in music theory covering the writing, analysis, and functional piano keyboard of music theory fundamentals including: notation, scales, intervals, chords, and rhythm reading with computer music and MIDI technology.  
**Components:** Class |
| **MUSIC 1820** | 1 credit | Marching Pioneers  
The study and performance of a wide variety of band music, particularly literature; campus and community concerts and tours. Membership is open to all university students by audition.  
**Components:** Laboratory  
**GE:** HHP-Activity |
| **MUSIC 1830** | 3 credits | Music Theory II: Tonal Music Theory with MIDI  
A study of tonal music theory using piano keyboard and MIDI music technology applications. Students study concepts in music theory including melodic structures, texture, 16th century 2 voice counterpoint, 18th century 4 voice counterpoint, harmonic rhythm, voice leading in 7th chords, modulation, and secondary dominant and leading tone chords. Students will apply the above concepts in musical composition and analysis, and demonstrate performance of musical structures on the piano keyboard.  
**Components:** Class  
**Prereqs/Coreqs:** P: MUSIC 1730 |
| **MUSIC 1900** | 1 credit | Basketball Band  
Open to performers by permission from faculty within respective field.  
**Components:** Laboratory |
| **MUSIC 1910** | 1 credit | Choir  
The study and performance of men’s choral literature (Singing Pioneers - Men’s Choir). The study and performance of a wide variety of women’s choral literature (Coro D’Angeli - Women’s Choir). Open to all university students and area musicians. Placement audition required.  
**Components:** Laboratory |
| **MUSIC 2020** | 1 credit | Music Theater  
Music Theatre regularly studies and performs works from the entire history of operatic and Broadway literature. Students are expected to submit writing assignments periodically as part of the course structure. These assignments involve the assessment of historical, cultural, and aesthetic aspects of the literature. To receive Fine Arts General Education credit you must take this course three times.  
**Components:** Laboratory  
**GE:** Fine Arts |
**MUSIC 2050 3 credits**  
**Native American Music**  
This course is designed to provide students with an introductory overview of American Indian Music. Its purpose is to promote understanding of the culture’s experiences through the study of both traditional and popular American Indian music, such as powwows, songs, flute music, and popular/classical artists. The awareness gained will be used to analyze social issues of identity, self-representation, authenticity, appropriation, sovereignty, and federal assimilation policies with the aim of guiding students toward a thoughtful perspective that challenges traditional and romanticized views of American Indian culture. By engaging with a culture distinct from their own, and gaining an understanding of the complex relationship of history, politics, beliefs, and musical systems contained therein, students will be charged to consider multiple perspectives and become more self-aware. Additionally, the course seeks to expose students to the evolution and complexities of the processes of ethnomusicology.  
*Components: Class  
Cross Offering: ETHNSTDY 2050  
GE: Ethnic Studies, Fine Arts*

**MUSIC 2170 1 credit**  
**High Brass Techniques**  
A course designed to acquaint the prospective teacher with the methods of teaching high brass instruments, especially trumpet and French horn, at the elementary and secondary school levels, and to develop basic proficiency in the actual playing of these instruments.  
*Components: Laboratory*

**MUSIC 2250 2 credits**  
**History and Literature of Western Music I**  
Music history and literature from antiquity to 1550. Required for all music majors.  
*Components: Class  
GE: Fine Arts  
Prereqs/Coreqs: P: MUSIC 1530 and MUSIC 1730*

**MUSIC 2270 1 credit**  
**Low Brass Techniques**  
A course designed to acquaint the prospective teacher with the methods of teaching low brass instruments, especially trombone, euphonium, and tuba, at the elementary and secondary school levels, and to develop basic proficiency in the actual playing of these instruments.  
*Components: Laboratory*

**MUSIC 2340 1 credit**  
**Piano Techniques - Third Semester**  
Third semester. Class piano lessons open to all university students. New piano students with previous piano study must audition during registration week to determine placement in the proper section.  
*Components: Class*

**MUSIC 2350 2 credits**  
**History and Literature of Western Music II**  
Music history and literature from 1550 to 1750. Required for all music majors.  
*Components: Class  
GE: Fine Arts  
Prereqs/Coreqs: P: MUSIC 2250*

**MUSIC 2370 1 credit**  
**Percussion Techniques**  
A course designed to develop a knowledge of basic performance and teaching techniques on the elementary and secondary school levels.  
*Components: Laboratory*

**MUSIC 2440 1 credit**  
**Piano Techniques - Fourth Semester**  
Fourth semester. Class piano lessons open to all university students. New piano students with previous piano study must audition during registration week to determine placement in the proper section.  
*Components: Class*

**MUSIC 2450 3 credits**  
**World Music Survey**  
This course presents music as it is created, performed and experienced in cultures from Latin and North America, Caribbean, India, Asia, and the Pacific. The course provides the background to the musical style of each culture, and explains how music relates to history, social customs, politics, and identity. Core cultural institutions such as churches, festivals and families will be studied for the role they play in building and sustaining musical traditions.  
*Components: Class  
GE: Fine Arts  
Prereqs/Coreqs: P: MUSIC 1590*

**MUSIC 2470 1 credit**  
**String Techniques**  
A course intended to develop a basic performing technique and understanding of string instruments and acquaint students with a variety of methods and materials for use at the elementary and secondary school levels.  
*Components: Laboratory*

**MUSIC 2500 1–3 credits**  
**Topics in Music**  
In depth study of topics of interest to the music profession. The topic to be studied will be identified in the course title.  
*Components: Class*

**MUSIC 2530 1 credit**  
**Aural Skills III**  
Singing intervals, rhythms, and melodies at sight. Harmonic and melodic dictation.  
*Components: Class*

**MUSIC 2550 3 credits**  
**American Music**  
A survey course of 20th century music designed to acquaint students with American music from colonial times to the present, with an emphasis on the musical and sociological background that affects its development.  
*Components: Class  
GE: Fine Arts*
MUSIC 2570
High Woodwind Techniques
1 credit
A course intended to develop a knowledge of basic performance and teaching techniques of high woodwinds, especially flute and clarinet, at the elementary and secondary school levels.
Components: Laboratory

MUSIC 2650
History of Jazz
3 credits
An examination of the rich and varied dimensions of jazz music, a genre of music indigenous to the U.S. Detailed study of all major subgenres of jazz, including Dixieland, swing, bebop, cool, and fusion, will form the core of this course, which will also emphasize the innovations of Creole and Black artists.
Components: Class
GE: Fine Arts
Prereqs/Coreqs: P: MUSIC 1590

MUSIC 2670
Double Reed Woodwind Techniques
1 credit
A course intended to develop a knowledge of basic performance and teaching techniques of double reed woodwinds, especially oboe and bassoon, at the elementary and secondary school levels.
Components: Laboratory

MUSIC 2730
Music Theory III: Advanced Tonal Theory, Counterpoint, and Composition
3 credits
An advanced course in which students develop mastery and demonstrate comprehension in music theory concepts including: 16th century polyphony analysis, 18th century two part invention and fugue analysis, chromatic harmony including borrowed, Neapolitan and augmented 6th chords, introduction to classical forms, extended tertian harmony, altered dominants, chromatic mediants, and music theory in the Romantic era. Students develop performance skills on the piano keyboard of the above theoretical structures and demonstrate mastery of them through composition of musical scores applying computer music and MIDI technology.
Components: Class
Prereqs/Coreqs: P: MUSIC 1830

MUSIC 2750
History of American Musical Theatre
3 credits
An examination of a genre of music indigenous to the U.S. Detailed study of all major influences upon American Musical Theatre, including Revues, Cohan, Rodgers & Hammerstein, Bernstein, Sondheim, and Lloyd Webber will form the core of this course, which will also show how musicals have reflected societal and cultural trends in the U.S. since 1900.
Components: Class
GE: Fine Arts
Prereqs/Coreqs: P: MUSIC 1590

MUSIC 2770
Diction I
1 credit
Fundamentals of phonetics and sound production as applied to singing Italian and English. Instruction in the International Phonetic Alphabet.
Components: Class

MUSIC 2850
History of Rock and Roll
3 credits
An examination of a genre of music indigenous to the U.S. Detailed study of all major periods of rock and roll, including Rockabilly, R&B, Folk Music, the British Invasion, the California Sound, Heavy Metal, Alternative, and Rap will form the core of this course, which will also show how rock and roll has reflected societal and cultural trends in the U.S. since 1950.
Components: Class
GE: Fine Arts
Prereqs/Coreqs: P: MUSIC 1590

MUSIC 2870
Diction II
1 credit
Fundamentals of phonetics and sound production as applied to singing German and French. Continuation of material from MUSIC 2770.
Components: Class
Prereqs/Coreqs: P: MUSIC 2770

MUSIC 2920
Beginning Conducting
2 credits
The development of basic conducting techniques and an emphasis on practical application of conducting vocal and instrumental music.
Components: Class

MUSIC 3160
Elementary Music Methods for Non-Music Majors
3 credits
Methods and techniques in music instruction for the elementary school, stressing techniques in singing, listening, use of instruments and materials for planning and directing musical experiences.
Components: Class

MUSIC 3170
String Pedagogy
2 credits
This course will introduce string pedagogy issues to music majors and minors who intend to teach strings, work with orchestras, or learn more about the different instruments. Class topics will include: homogeneous groups, heterogeneous groups, choosing methods books, comprehensive teaching, incorporation of national standards.
Components: Class

MUSIC 3250
History and Literature of Western Music III
2 credits
Music history and literature from 1750 to 1900. Required for all music majors.
Components: Class
GE: Fine Arts
Prereqs/Coreqs: P: MUSIC 2350

MUSIC 3260
Instrumental Music Methods I
2 credits
The first in a two-semester sequence of courses examining the practical and philosophical, issues related to instrumental music in the elementary, middle, and secondary level. Topics building the beginner program, rehearsal techniques, and classroom management.
Components: Class
Prereqs/Coreqs: P: MUSIC 3730;
MUSIC 3270
Vocal Pedagogy
This course will introduce vocal pedagogy issues to music majors and minors who intend to teach voice, work with choirs, or learn more about the vocal mechanism. Class topics will include: basic vocal physiology; different vocal teaching philosophies; methods for alleviating performance anxiety; and vocal health.
Components: Class
Prereqs/Coreqs: P: MUSIC 2870

MUSIC 3280
Wind Literature
A comprehensive study of wind groups focusing on the instrumentation and literature from earliest beginnings to the present. Special emphasis is given to major works, composers, compositional styles, and programming.
Components: Class
Prereqs/Coreqs: P: MUSIC 3350

MUSIC 3350
History and Literature of Western Music IV
Music history and literature from 1900 to present. Required for all music majors. Must have successfully completed Upper Divisional examination before enrolling.
Components: Class
GE: Fine Arts
Prereqs/Coreqs: P: MUSIC 3250

MUSIC 3360
Instrumental Music Methods II
The second in a two-semester sequence of courses examining the practical and philosophical, issues related to instrumental music in the elementary, middle, and secondary level. Topics include marching band techniques, program development, and administration.
Components: Class
Prereqs/Coreqs: P: MUSIC 3260

MUSIC 3370
Piano Pedagogy
A review of materials pertinent to piano teaching is made and the techniques of instructions are emphasized.
Components: Class

MUSIC 3380
Choral Literature
Comprehensive study of choral literature from polyphony’s origins through to the present.
Components: Class
Prereqs/Coreqs: P: MUSIC 3350

MUSIC 3430
Jazz Improvisation and Theory
Provides a systematic approach for understanding the information needed to improvise jazz music. The course covers basic jazz keyboard skills, chord-scale relationships and the study of transcriptions of master jazz improvisers.
Components: Class

MUSIC 3440
Accompanying
A study of the literature on accompanying and experience in accompanying singers and instrumentalists.
Components: Laboratory

MUSIC 3460
Choral Music Methods I
Designed for music majors planning to attain licensure on the 6-12 choral music certification. Emphasis centered on philosophies, methods of teaching, organizing, and administering standard SATB choirs in middle and secondary schools. Special attention is given to working with the middle level student, especially in terms of voice change issues and the dynamics of working with that age of student.
Components: Class
Prereqs/Coreqs: P: MUSIC 3830 and MUSIC 3920 or consent of instructor

MUSIC 3480
Piano Literature
A comprehensive survey of piano repertoire from the 17th century through the present. Special emphasis will be given to major works, composers/compositional styles, and pianists.
Components: Class

MUSIC 3530
Orchestration and Arranging
Basic styles of arranging for small and large ensembles stressed; score reading and manuscript writing also emphasized.
Components: Class
Prereqs/Coreqs: P: MUSIC 3730

MUSIC 3560
Choral Music Methods II
Designed for music majors planning to attain licensure on the 6-12 choral music certification. Emphasis centered on philosophies, methods of teaching, organizing, and administering jazz choirs, show choirs, musicals, and gender-based choirs. Special attention is given to working with the middle level student, especially in terms of voice change issues and the dynamics of working with that age of student.
Components: Class
Prereqs/Coreqs: P: MUSIC 3460 or consent of instructor

MUSIC 3630
Aural Skills IV
Singing intervals, rhythms, and melodies at sight. Harmonic and melodic dictation. To be taken concurrently with MUSIC 3730
Components: Class
Prereqs/Coreqs: C: MUSIC 3730

MUSIC 3660
Jazz Techniques
To provide prospective music teachers a systematic approach for developing the skills needed to teach and improvise jazz music in a big band and small group setting at the middle and high school level.
Components: Class

MUSIC 3730
Music Theory IV: Form and Analysis
A study of form in music and its development from the Renaissance through the 20th century. Students develop an understanding of the historical and theoretical development of musical form through analysis and composition of musical scores with computer music and MIDI applications.
Components: Class
Prereqs/Coreqs: P: MUSIC 2730
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Course Description</th>
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</thead>
</table>
| MUSIC 3760  | 2       | Secondary General Music Methods | Organizing and implementing the general music program at the secondary level, grades 7-12. Required for secondary general music certification.  
Components: Class  
Prereqs/Coreqs: P: MUSIC 3730 |
| MUSIC 3830  | 2       | Music Theory V: 20th Century Music Theory | A study of music theory from the end of the Common Practice Period to the 21st century. The course includes analysis and composition of musical scores in important 20th century compositional practices applying computer music and MIDI applications.  
Components: Class  
Prereqs/Coreqs: P: MUSIC 3730; must have successfully completed upper divisional examination before enrolling |
| MUSIC 3860  | 3       | Elementary Music Methods for Music Majors | Methods and techniques in music instruction for the elementary school, stressing techniques in singing, listening, use of instruments and materials for planning and directing musical experiences. Course designed for general music education majors planning to become certified in this area.  
Components: Class |
| MUSIC 3890  | 2       | Composition Seminar | This course is designed to enable students to develop a functional ability to undertake the composition of musical works, both instrumental and vocal, and in the process gain an understanding of basic compositional devices (e.g. motive, phrase, structure, accompaniments, styles, etc.)  
Components: Discussion, Seminar |
| MUSIC 3920  | 2       | Intermediate Conducting | An accelerated course in conducting that stresses interpretation of the full score, discipline of the baton and bodily movements, and psychological procedures.  
Components: Class  
Prereqs/Coreqs: P: MUSIC 1830 |
| MUSIC 4230  | 2       | Advanced Conducting Instrumental | Review and refine techniques applicable to instrumental ensembles that were introduced in the first two semesters of conducting. Advanced techniques of score study, transposition concepts, and the handing of asymmetrical time signatures will be added to the conductor’s repertoire.  
Components: Class  
Prereqs/Coreqs: P: MUSIC 3920 |
| MUSIC 4290  | 2       | Music Media, Midi and Recording Technology | An exciting and timely course intended to provide students with the technical and theoretical basis of knowledge needed in the current use of computer and recording studio technology encountered in professional recording studios, media, and broadcasting. Course topics include: studio audio recording techniques; computer and MIDI keyboard sequencing; digital sampling, sound synthesis, web page design with MP3’s and Tiff creation, CD production for portfolios including cover, CD insert design and securing copyright. Students will apply their listening, compositional, and arranging skills acquired in previous courses in the music major.  
Components: Class |
| MUSIC 4320  | 2       | Advanced Conducting - Choral | Designed for music majors planning to teach at the secondary level. Emphasis will center on philosophies, methods of rehearsing, organizing rehearsals over time, and studying stylistic issues of choral music.  
Components: Class  
Prereqs/Coreqs: P: MUSIC 3920 |
| MUSIC 4500  | 1-3     | Seminar in Music | A critical examination of one area with the field of music, with the specific subject to be determined by the instructor and the needs of the student.  
Components: Seminar |
| MUSIC 4520  | 2       | Seminar in Music Business II | A continuing discussion in the major areas of music business. Each week classes will be led by area music industry leaders who will present discussions in their area of expertise. Topics include: electronic media in the music industry; advanced sound reinforcement techniques; legal issues in the music business; entrepreneurship in the music industry; artist management and talent agencies; the local music dealers; concert promotion and booking; producing commercials.  
Components: Seminar |
| MUSIC 4660  | 1-6     | Cooperative Field Experience | Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and the department.  
Components: Field Studies |
| MUSIC 4920  | 1-3     | Independent Study | By permission of the instructor.  
Components: Independent Study |
### PHILOSPHY

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
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<td>PHLSPHY 1130</td>
<td>Introduction to Philosophy</td>
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<tr>
<td>PHLSPHY 2130</td>
<td>Peace Studies: Issues, Ideas and Morality of Nuclear War</td>
<td>3</td>
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<td>PHLSPHY 2230</td>
<td>Contemporary World-Views</td>
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<td>PHLSPHY 2330</td>
<td>Origins of Western Philosophy</td>
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<td>PHLSPHY 2630</td>
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<td>PHLSPHY 2730</td>
<td>Introduction to the Hebrew Scriptures</td>
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<td>PHLSPHY 2830</td>
<td>Introduction to the New Testament</td>
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<td>PHLSPHY 2930</td>
<td>Major Traditions in Eastern Religions</td>
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<td>PHLSPHY 2940</td>
<td>Special Topics in Philosophy</td>
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<td>PHLSPHY 3130</td>
<td>Philosophy of History</td>
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**PHLSPHY 1130 Introduction to Philosophy**
An introduction to basic philosophical questions through a consideration of different types of philosophy as developed by some of history’s most influential thinkers and as related to various aspects of human life.
- **Components:** Class
- **GE:** Humanities

**PHLSPHY 2130 Peace Studies: Issues, Ideas and Morality of Nuclear War**
A critical study of the literature concerning nuclear war. Technical, strategic and philosophic aspects of nuclear war will be given careful analysis, interpretation and discussion in lecture/readings/discussion format.
- **Components:** Class

**PHLSPHY 2230 Contemporary World-Views**
Major modern philosophical-religious world-views: Hinduism, Buddhism, Judaism, Catholic, Protestantism, Marxism, Secular Humanism, and Atheist Existentialism.
- **Components:** Class
- **GE:** Humanities, International Education

**PHLSPHY 2330 Origins of Western Philosophy**
Representative thinkers and the development of different traditions in Western philosophy from the pre-Socratics to the Renaissance.
- **Components:** Class
- **GE:** Humanities

**PHLSPHY 2430 Philosophy in the Modern World**
The principal thinkers and movements of Western philosophy from the Renaissance into the 20th century.
- **Components:** Class
- **GE:** Humanities

**PHLSPHY 2530 Ethics**
The major types of theories of right and wrong that underlie moral evaluations.
- **Components:** Class
- **GE:** Humanities

**PHLSPHY 2540 Science, Technology, and Ethics**
This course explores the epistemological, ontological, and ethical questions raised by science and technology. Among the topics addressed are: various views of science and the different metaphysical views which are behind them, various views of nature and human nature, and the different kinds of ethics that result from these competing epistemologies and ontologies.
- **Components:** Class
- **GE:** Humanities
- **Prereqs/Coreqs:** sophomore standing to enroll in this class

**PHLSPHY 2550 Business Ethics**
This course explores ethical questions in business from the perspectives of employers, employees, and consumers, according to the methods of philosophy and grounded in philosophical ethical theories. Students will be introduced to the basics of Kantian ethics, utilitarianism, and virtue ethics and will then apply these theories to various issues in business ethics.
- **Components:** Class
- **GE:** Humanities

**PHLSPHY 2630 Logic**
An introductory study of the structure of reasoning and argumentation with practical applications in the socio-political sphere, science and philosophy.
- **Components:** Class

**PHLSPHY 2730 Introduction to the Hebrew Scriptures**
An introduction to the Old Testament including historical background, an introduction to critical analysis and the necessary tools of interpretation, and a survey of the major themes, traditions and thought content of the Old Testament.
- **Components:** Class
- **GE:** Humanities

**PHLSPHY 2830 Introduction to the New Testament**
- **Components:** Class
- **GE:** Humanities

**PHLSPHY 2930 Major Traditions in Eastern Religions**
An introductory study of Hinduism, Buddhism, Zoroastrianism, Islam, Confucianism, Taoism, Shinto and Zen, with outlines of their histories, developments of their doctrines and consideration of their contribution to the religious thought of the world.
- **Components:** Class
- **GE:** Humanities, International Education

**PHLSPHY 2940 Special Topics in Philosophy**
A critical examination of a major theme, movement, period, philosopher, or philosophical issue. This course is designed for students from any field or major, and does not presuppose an advanced stage of the study of philosophy
- **Components:** Class

**PHLSPHY 3130 Philosophy of History**
An examination of principal theories regarding what meaning may or may not be discovered in history.
- **Components:** Class
- **GE:** Humanities
- **Prereqs/Coreqs:** P: three credits in philosophy or consent of instructor
PHLSPHY 3230  
Philosophy of Religion  
An examination of major interpretations of what religion is and the significance for it in concepts regarding faith and reason, God, the invisible world, evil, and the nature and destiny of persons.  
Components: Class  
GE: Humanities  
Prereqs/Coreqs: P: three credits in philosophy or consent of instructor

PHLSPHY 3330  
Ontology and Ethics  
The ontological foundation of ethics in the thought of some major moral philosophers.  
Components: Class  
GE: Humanities  
Prereqs/Coreqs: P: three credits in philosophy or consent of instructor

PHLSPHY 3530  
Philosophy’s Feminist Future: From Powerism to Personalism  
With a focus on major representatives of philosophical thought, this course will examine ideas that have promoted civilization along sexist lines and other ideas that can contribute to the development of a new kind of civilization rooted in a respect for persons.  
Components: Class  
Cross Offering: WOMGENDR 3530  
GE: Gender Studies, Humanities  
Prereqs/Coreqs: P: three credits in philosophy or WOMSTD 1130 or consent of instructor

PHLSPHY 3630  
Philosophy of Law  
A critical study of major concepts of law with particular emphasis on how the various notions of law are governed by fundamental views concerning the nature of reality and the individual person.  
Components: Class  
GE: Humanities  
Prereqs/Coreqs: P: three credits in philosophy, CRIMLJUS 1130 or consent of instructor

PHLSPHY 363W  
Philosophy of Law  
A WRITING EMPHASIS COURSE IS DESIGNED TO EFFECTIVELY USE WRITING TO ENHANCE STUDENT LEARNING OF COURSE SPECIFIC CONTENT THROUGH VARIOUS MEANS SUCH AS SELF-REFLECTION, ANALYSIS, PROBLEM SOLVING AND RESEARCH. A critical study of major concepts of law with particular emphasis on how the various notions of law are governed by fundamental views concerning the nature of reality and the individual person.  
Components: Class  
GE: Humanities, Writing Emphasis  
Prereqs/Coreqs: P: three credits in philosophy, CRIMLJUS 1130 or consent of instructor

PHLSPHY 3740  
Continental Philosophy  
An examination of topics and themes in 19th and 20th century Continental European philosophy.  
Components: Class  
GE: Humanities  
Prereqs/Coreqs: C: PHLSPHY 2430 or consent of instructor

PHLSPHY 3840  
Existentialism  
Examination of the various types of Existentialism and the major philosophical Existentialists, such as Kierkegaard, Nietzsche, Heidegger, Merleau-Ponty, Sartre, de Beauvoir, Jaspers, and Marcel.  
Components: Class  
GE: Humanities  
Prereqs/Coreqs: C: PHLSPHY 2430 or consent of instructor

PHLSPHY 4430  
Seminar in Philosophy  
A critical examination of a major theme, period or philosopher in the history of philosophy. This is a seminar designed for students who are majors or minors and who are at an advanced stage of the undergraduate study of philosophy.  
Components: Seminar  
Prereqs/Coreqs: P: six credits in philosophy or consent of instructor

PHLSPHY 4720  
Individual Research in Philosophy  
Advanced work by the individual students.  
Components: Independent Study  
Prereqs/Coreqs: P: must be a philosophy major or minor

PHYSICAL SCIENCE

PHSC 1150  
Physical Science  
A presentation of the physics and chemistry of our everyday world, with minimal mathematics. This is a liberal arts science course and does not fulfill program requirements for physics or chemistry. Students taking this course to meet their natural science requirement may not count another physics or chemistry course towards general education.  
Components: Laboratory, Class  
GE: Natural Science

PHSC 1310  
Introductory Astronomy Lab  
Constellation study and telescopic observation of the moon, planets, stars and nebulae; introduction to astronomical techniques and equipment; field trips to regional planetariums and observatories.  
Components: Laboratory  
GE: Natural Science  
Prereqs/Coreqs: P or C: PHSC 1340
PHSC 1340  
**Introductory Astronomy**  
Our sky, the origin and dynamics of the solar system, the physical properties of the moon and planets, the sun, space exploration, the stars and stellar evolution, galaxies, cosmology and life in the universe.  
Components: Class  
GE: Natural Science  

PHSC 3000  
**Special Topics in Astronomy**  
Special topics and laboratory projects dealing with problems of current interest in astronomy and astrophysics. May be taken for credit more than once.  
Components: Class  
Prereqs/Coreqs: P: PHSC 1340  

PHSC 4990  
**Independent Study in Physical Science**  
Study of special topics and/or developments of special projects having department approval.  
Components: Independent Study

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**PHYSICS**

PHYSICS 1050  
**Principles of Physics**  
Mechanics, waves, fluid dynamics, heat, electricity, magnetism, light and optics. This course emphasizes the use of physics principles in analyzing physical systems.  
Components: Discussion, Laboratory, Class  
GE: Natural Science  
Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above  

PHYSICS 1350  
**Introductory Physics I**  
Mechanics, thermodynamics, and wave properties for science and pre-professional students, including an introduction to experimental techniques and experiments. This course is the first semester of a two-semester sequence; students looking for a one-semester algebra-based physics course should take PHYSICS 1050.  
Components: Discussion, Laboratory, Class  
GE: Natural Science  
Prereqs/Coreqs: P: PHYSICS 140 or PHYSICS 1350  

PHYSICS 1450  
**Introductory Physics II**  
A continuation of PHYSICS 1350 including topics and experiments in electricity and magnetism, optics, atomic physics, and nuclear physics.  
Components: Discussion, Laboratory, Class  
Prereqs/Coreqs: P: PHYSICS 1350  

PHYSICS 1900  
**Discovering Relativity and Quantum Mechanics**  
An experimentally-grounded introduction to the ideas of Modern Physics with minimal mathematics. Central topics include atomic theory, quantum mechanics and relativity.  
Components: Laboratory, Class  
GE: Natural Science  
Prereqs/Coreqs: P: MATH 15 with a grade of “C” or better or math placement level of 15 or above.

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**PHYSICS 2240**  
**General Physics I**  
Mechanics and wave properties for students of engineering, mathematics, and science, including an introduction to experimental techniques and experiments.  
Components: Discussion, Laboratory, Class  
GE: Natural Science  
Prereqs/Coreqs: P or C: MATH 2740

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**PHYSICS 2340**  
**General Physics II**  
Electricity, magnetism, and optics for students of engineering, mathematics, and science, including an introduction to experimental techniques and experiments.  
Components: Discussion, Laboratory, Class  
Prereqs/Coreqs: P: PHYSICS 2240 with a "C-" or better and MATH 2740 with a "C-" or better

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**PHYSICS 2410**  
**Physics of Sound**  
An introduction to acoustics with emphasis on engineering applications.  
Components: Class  
Prereqs/Coreqs: P: PHYSICS 2530 or PHYSICS 2240

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**PHYSICS 3140**  
**Modern Physics**  
An introduction to special relativity, kinetic theory, quantum physics, the Schrodinger equation in one and three dimensions, a brief introduction to nuclear physics, energy bands of crystalline solids, the physics of semiconductors and its application to semiconducting devices.  
Components: Discussion, Laboratory, Class  
Prereqs/Coreqs: P: PHYSICS 2530 or PHYSICS 2240  
GE: Natural Science  
Prereqs/Coreqs: C: PHYSICS 2530 or PHYSICS 2240  
Prereqs/Coreqs: P: PHYSICS 2530 or PHYSICS 2240  
Prereqs/Coreqs: P: PHYSICS 2530 or PHYSICS 2240

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**PHYSICS 4940**  
**Independent Study in Physics**  
Study of special topics and/or developments of special projects having department approval.  
Components: Independent Study

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**POLITICAL SCIENCE**

**POLISCI 1130**  
**Introduction to Politics**  
A survey of the principles of political analysis, covering topics such as the nature of politics, the political experience, decision-making, traditions of politics and comparative political systems.  
Components: Class  
GE: Social Sciences

**POLISCI 1230**  
**Introduction to American Government**  
Origin and nature of American federal system, federal and state constitutions, electoral process, structure and functions of federal, state and local government, and individual rights and civil liberties.  
Components: Class  
GE: Social Sciences
POLISCI 1330 3 credits
International Relations
The foundations of national power, the causes of conflict in world politics, and the efforts to deal with such conflicts particularly through international organizations.
Components: Class
GE: International Education, Social Sciences

POLISCI 1430 3 credits
Current Issues and Democracy
Discussion of the issues of major conflict, the essence of democracy, the nature of technological democracy and its future.
Components: Class
GE: Social Sciences

POLISCI 1530 3 credits
Introduction to Public Policy
A survey and review of government public policy and public policy making. The investigation, differing explanations and alternative arguments about what government should and should not do including consideration of various public policies.
Components: Class
GE: Social Sciences

POLISCI 2430 3 credits
Comparative Politics
An examination of non-American political systems and the experiences of countries coping with political change. An investigation of models of values, stereotypes, incentives and sanctions within the network of interdependent elements that create a sense of publicness and authority.
Components: Class
GE: International Education, Social Sciences
Prereqs/Coreqs: P: POLISCI 1130 or POLISCI 1230

POLISCI 2940 3 credits
The Political Economy of Race, Gender and Ethnicity
This course uses economic principles to analyze salient issues involving people of color, women, and ethnic minorities. The focus is interdisciplinary, drawing from the fields of business, political science, and others. Pertinent principles and concepts are used to analyze causes and effects of the changing composition of U.S. families, to examine the nature and extent of discrimination within the U.S. economy, and to understand why issues involving race, ethnicity, and gender are of concern to us both individually and collectively.
Components: Class
Cross Offering: ECONOMIC 2940 AND ETHNSTDY 2940
GE: Ethnic Studies, Gender Studies

POLISCI 3230 3 credits
Introduction to Public Administration
This course examines the role of administration in modern American government, its basic characteristics and the problems of making it efficient and holding it responsible.
Components: Class
Prereqs/Coreqs: P: POLISCI 1130 or POLISCI 1230

POLISCI 3320 3 credits
Congressional Politics
The powers, functions and processes of Congress, the role of political parties and pressure groups, and the relation of Congress to the other branches of government are examined.
Components: Class GE: Social Sciences Prereqs/Coreqs: P: POLISCI 1230

POLISCI 3330 3 credits
American Political Parties and Interest Groups
Interest groups and political parties as forces that mold public policy are examined.
Components: Class GE: Social Sciences Prereqs/Coreqs: P: POLISCI 1230

POLISCI 3340 3 credits
Modern Japan
Social, cultural, and political history of Modern Japan from the 17th century to the present.
Components: Class
Cross Offering: HISTORY 3950
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1020 or consent of instructor

POLISCI 3350 3 credits
Modern China
Social, cultural, and political history of Modern China from the 19th century to the present.
Components: Class
Cross Offering: HISTORY 3970
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1020 or consent of instructor

POLISCI 3520 3 credits
The Judicial Process
The American judicial process, trial and appellate courts as well as the role of the U.S. Supreme Court are examined. The Anglo-American judicial system is compared with the judicial system of continental Europe.
Components: Class GE: Social Sciences Prereqs/Coreqs: P: POLISCI 1230

POLISCI 3530 3 credits
State and Local Government
The structure and functions of state and local government, implementation of public policy, governmental agencies and administrative services, and city-suburban and metropolitan issues are examined. Special attention is given to the political and policy effects of the dynamic changes taking place in the urban centers in Wisconsin as well as in neighboring states.
Components: Class
GE: Social Sciences
POLISCI 3610 3 credits
British Isles to 1714
The political evolution of the English state and the national
development and interactions of the English, Irish, Scottish,
and Welsh peoples from their origins to 1714.
Components: Class
Cross Offering: HISTORY 3610
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020
or consent of instructor

POLISCI 3620 3 credits
British Isles since 1714
The political evolution of the British state and the national
development and interactions of the English, Irish, Scottish,
and Welsh peoples from 1714 until the present.
Components: Class
Cross Offering: HISTORY 3620
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020
or consent of instructor

POLISCI 3650 3 credits
Political Theory
The course examines the major contributions of Western
normative political theory that underlie contemporary notions
of power and political relationships.
Components: Class GE: Social
Sciences Prereqs/Coreqs: P: POLISCI 1130

POLISCI 3720 3 credits
Politics of the Global Economy
An analysis of the operation and powers of multinational
corporations, their methods of influencing the electoral
process, and the legislative and executive branches in the
United States and abroad, as well as their future role in
world economy and politics and development of Third World
countries.
Components: Class
GE: International Education, Social Sciences
Prereqs/Coreqs: P: POLISCI 1130

POLISCI 3730 3 credits
Ethnic Rights and Politics
The course examines changing patterns of ethnic, gender and
race relations; legislative and judicial developments affecting
civil rights; political movements, political, social and economic
discrimination; the judicial system and legal protection for civil
rights and the status and circumstances of women and other
minorities.
Components: Class
Cross Offering: ETHNSTDY 3720
GE: Ethnic Studies, Social Sciences
Prereqs/Coreqs: P: POLISCI 1230 or consent of
instructor

POLISCI 3750 3 credits
International Human Rights
This course examines the subject of international human
rights primarily in the post-1945 era. The course involves
the examination, analysis and discussion of major theories,
legal norms, criminal procedures and state and international
diplomacy in the human rights field. The course integrates
theory and praxis with the case study method.
Components: Class
GE: International Education, Social Sciences
Prereqs/Coreqs: P: POLISCI 133

POLISCI 3760 3 credits
International Security
This course will examine the nature of and response to
international security threats during and after the Cold War.
These threats will be examined from both a theoretical
perspective and a policy perspective. Topics include war,
nuclear weapons, democratization, terrorism, economic
sanctions, environmental degradation, ethnic conflict, and
more.
Components: Class
GE: International Education, Social Sciences
Prereqs/Coreqs: P: POLISCI 1330

POLISCI 3830 3 credits
Civil Liberties
The focuses of this course are; law and power and their
abuses; law and power in relation to, deviance, freedom of
religion, freedom of expression, civil disobedience, and the
war on crime; criminal and civil cases, group action.
Components: Class GE: Social
Sciences Prereqs/Coreqs: P: POLISCI 1230

POLISCI 4120 3 credits
Modern Russia
Political, social, economic, and cultural history of North
Central Asia from the middle of the 19th century until the
present time, with particular attention to Russian civilization,
and the political evolution from Russian empire, to Soviet
pactocracy, to presidential republic.
Components: Class
Cross Offering: HISTORY 4120
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1020 or consent of
instructor

POLISCI 4420 3 credits
Constitutional Law
This course examines constitutional law and the
political process, judicial review, civil liberties, rights and
responsibilities, the role of the Supreme Court in the
educational environment and student rights.
Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: POLISCI 1130 or POLISCI 1230
PSYCHOLOGY

PSYCHLGY 1130  3 credits
General Psychology
An introductory course designed to acquaint the student with
the language and methods of psychology and to examine
factors affecting human behavior in the areas of motivation,
development, intelligence, personality and abnormal behavior.
Components: Class
GE: Social Sciences

PSYCHLGY 2010  1 credit
Careers in Counseling and Human Services
Career fields open to individuals with a bachelor’s degree in
psychology are explored through field trips, invited speakers,
and individual research. While the focus is on counseling and
human services positions, applications in business settings
are also included.
Components: Class
Prereqs/Coreqs: P: PSYCHLGY 1130

PSYCHLGY 2030  3 credits
Psychology of Personal Adjustment
Surveys the varieties of psychological adjustment from healthy
to abnormal coping styles. Includes theoretical underpinnings
of personality, the influence of socialization, the issues
involved in stress and stress management techniques, and
practical applications of psychological principles to
everyday living.
Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130

PSYCHLGY 2230  3 credits
Introduction to Experimental Psychology
Commitment to a scientific approach to understanding behavior is what unifies
psychology as a profession. This course is designed to
introduce students to the basic research methodology of
experimental psychology. Course topics include the process of
conducting and evaluating research, ethical issues, and the
American Psychological Association conventions for the
presentation and publication of scholarly materials.
Components: Class
Prereqs/Coreqs: P: PSYCHLGY 1130 with a “C-” or
better and MATH 15 or MATH 1530 or mathematics
proficiency level of 15 or above

PSYCHLGY 2530  3 credits
Psychology of Women
Explores the shaping of women’s behaviors and self-concepts
by biological and social influences. Also covers the empirical
support for and against gender-related differences in behavior
and thought patterns.
Components: Class
Cross Offering: WOMGENDR 2530
GE: Gender Studies, Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 or one course in
women’s studies

PORTUGUESE

PORTUG 1840  4 credits
Elementary Portuguese
The primary goal of the elementary Portuguese course is to
develop the four basic language skills of speaking, listening,
reading, and writing. Particular attention will be placed on
understanding basic grammatical concepts and then applying
them by oral communicative interaction in Portuguese and
written exercises.
Components: Discussion, Laboratory, Class
GE: Foreign Language

PORTUG 1940  4 credits
Elementary Portuguese
A continuation of PORTUG 1840 in which students will
continue to cultivate a basic fluency in the areas of speaking,
listening, reading and writing in Portuguese.
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: PORTUG 1840
GE: Foreign Language

POLISCI 4660  1–8 credits
Cooperative Field Experience
Enhancement of the educational experience through
placement of a student with a cooperating agency, business,
industry or institution. The nature of the assignment, type of
experience, number of credits and evaluation procedure will be
stipulated in a statement of agreement (learning contract)
between the student and the department.
Components: Field Studies
Prereqs/Coreqs: junior standing

POLISCI 4720  1–3 credits
Study and Research in Political Science
Supervised individual or team study and investigation of a
selected topic.
Components: Independent Study
Prereqs/Coreqs: P: junior standing with at least 15
credit hours completed in political science

POLISCI 4730  1–3 credits
Trial Advocacy
Students prepare both sides of a civil or criminal case for trial
playing attorney and witness roles. Knowledge of courtroom
procedure and rules of evidence along with skills of teamwork,
critical and analytical thinking, and persuasive public speaking
are applied.
Components: Seminar

POLISCI 4760  1–3 credits
Seminar in Selected Topics in Political Science
Presentation of a selected topic normally not of a permanent
nature or suitable for a regular course. Besides regular class
presentations by students and examinations, a term paper is
required.
Components: Seminar
Prereqs/Coreqs: P: junior standing
PSYCHLGY 2930  
**Human Behavior in the Social Environment**  
This course examines theories of human biological, sociological, cultural, psychological, and spiritual development across the life span. It will address the range of social systems in which people live (individual, family, group, organizational, and community) and the ways social systems promote or deter people from maintaining or achieving health and well-being.  
*Components:* Class  
*GE:* Social Sciences  
*Prereqs/Coreqs:* P: PSYCHLGY 1130

PSYCHLGY 3000  
**Cognitive Psychology**  
An analysis of how information about the environment is received, organized, interpreted, stored and recalled, and how these functions affect the behavioral capacities of the individual.  
*Components:* Class  
*GE:* Social Sciences  
*Prereqs/Coreqs:* P: PSYCHLGY 2230

PSYCHLGY 3030  
**Learning and Behavior**  
This course addresses basic theoretical principles and experimental research in learning and behavior. Students will learn the basic principles of behavior modification and the functional approach to understanding and changing behaviors.  
*Components:* Class  
*GE:* Social Sciences  
*Prereqs/Coreqs:* P: PSYCHLGY 1130 and sophomore standing

PSYCHLGY 3130  
**Child Psychology**  
Surveys the psychological facts, principles, and methods relative to child development from conception to the onset of puberty.  
*Components:* Class  
*GE:* Social Sciences  
*Prereqs/Coreqs:* P: PSYCHLGY 1130 and sophomore standing

PSYCHLGY 3230  
**Adolescent Psychology**  
The physical, emotional, social and intellectual characteristics and problems of the adolescent.  
*Components:* Class  
*GE:* Social Sciences  
*Prereqs/Coreqs:* P: PSYCHLGY 1130 and sophomore standing

PSYCHLGY 3430  
**Physiological Psychology**  
Basic anatomy and function of the nervous system; research bearing on the role of physical mechanisms underlying perception, emotion, motivation and learning.  
*Components:* Class  
*Prereqs/Coreqs:* P: PSYCHLGY 2230 (for biology majors - P: PSYCHLGY 1130 AND either BIOLOGY 1650 or BIOLOGY 2340 or both BIOLOGY 2140 and BIOLOGY 2240)

PSYCHLGY 3530  
**Social Psychology**  
Communication, socialization, and the function of the individual in the group; motivation, attitudes, value, leadership, conformity, prejudices and stereotypes, and the social influences they have on the function and development of the self and personality.  
*Components:* Class  
*GE:* Social Sciences  
*Prereqs/Coreqs:* P: PSYCHLGY 1130 and sophomore standing

PSYCHLGY 3630  
**The Psychology of Human Sexuality**  
Why and how we behave sexually, male-female differences, the development and changing of sexual values; many variations of sexual behavior and sex crimes.  
*Components:* Class  
*GE:* Social Sciences  
*Prereqs/Coreqs:* sophomore standing to enroll in this class

PSYCHLGY 3830  
**Psychology and Religion**  
A survey of the relationships between psychology and religion; mysticism and behaviorism; religious healing and psychotherapy. The psychology underlying religious beliefs and practices.  
*Components:* Class  
*GE:* Social Sciences  
*Prereqs/Coreqs:* P: PSYCHLGY 1130

PSYCHLGY 396W  
**Behavioral Research I**  
A WRITING EMPHASIS COURSE IS DESIGNED TO EFFECTIVELY USE WRITING TO ENHANCE STUDENT LEARNING OF COURSE SPECIFIC CONTENT THROUGH VARIOUS MEANS SUCH AS SELF-REFLECTION, ANALYSIS, PROBLEM SOLVING AND RESEARCH. Studies of research methodology, ethics, and applied statistics will result in the design of a research proposal approved by your instructor and by the Institutional Review Board for the Protection of Human Subjects (IRB). Activities throughout the semester will focus on the development of critical thinking skills. Behavioral Research II (PSYCHLGY 397W) should be taken in the semester immediately following this course.  
*Components:* Discussion, Class  
*GE:* Writing Emphasis  
*Prereqs/Coreqs:* P: PSYCHLGY 2230 with a “C-” or better and MATH 1830 and admission to Psychology Department or consent consent of department chair
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**PSYCHLGY 397W Behavioral Research II**
A writing emphasis course is designed to effectively use writing to enhance student learning of course specific content through various means such as self-reflection, analysis, problem solving and research. Behavioral Research II should be taken in the semester immediately following Behavioral Research I (PSYCHLGY 396W). The research project designed in PSYCHLGY 396W will be implemented. Students will complete data collection and analysis, prepare a manuscript in APA format, and present their research. Competencies with the Statistical Package for the Social Sciences (SPSS) and with the critical assessment of research will be developed.

**Components:** Class
GE: Writing Emphasis
Prereqs/Coreqs: P: MATH 1830 and PSYCHLGY 396W with a "C-" or better, a psychology major or consent of department chair

**PSYCHLGY 3990**
Psychology of Adulthood and Aging
The purpose of this course is to provide a general introduction to the multi-disciplinary field of gerontology and examine the biological, social and psychological dimensions of adult development. While the primary focus is on an examination of the theoretical and empirical research on the aging process, students will also have the opportunity to be exposed to aging from an experiential perspective.

**Components:** Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and sophomore standing

**PSYCHLGY 4020**
Contemporary Issues in Psychology
This course provides students an opportunity to explore the current issues of academic and applied psychology through research and discussion. May be taken more than once if topic is different.

**Components:** Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and other prerequisites as appropriate to the topic

**PSYCHLGY 4030**
Theories of Personality
Theories of Personality introduces students to the major domains of personality theory (biological, dispositional, cognitive, and sociocultural) and current research in personality. Special topics in personality research will be addressed, such as the self, emotion, interpersonal issues, and sex differences.

**Components:** Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing

**PSYCHLGY 4330 History and Systems of Psychology**
This course is designed to provide a detailed account of the history of psychology. It encompasses both the philosophical antecedents of modern psychology as well as the influential pioneers in the field of psychology.

**Components:** Class
Prereqs/Coreqs: P: Admission to the Psychology Department and PSYCHLGY 2230 with a C- or better, and a minimum of twelve 3000 level or higher credits in psychology or consent of instructor

**PSYCHLGY 4430 Abnormal Psychology**
Psychology of abnormal behavior; biological and social factors in the genesis of behavioral, emotional and personality disorders. Brain disorders, psychoses, and substance abuse are also presented and discussed.

**Components:** Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing

**PSYCHLGY 4660 Cooperative Field Experience**
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits, and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department. Minimum prerequisites for enrollment in Cooperative Field Experience include but are not limited to the following: 1) Completion of at least 60 credits with a minimum GPA of 2.50 overall and a minimum GPA of 3.00 for courses completed within the Psychology Department. 2) Completion of 15 credits of appropriate course work in psychology. 3) Completion of all general requirements in English, speech and mathematics. 4) Student must obtain recommendations from two psychology faculty members. 5) Approval of the departmental chairperson, as well as the CFE supervisor. Four credits may be completed toward requirements for the major; up to 3 credits may count toward requirements for the minor; up to 8 credits may count toward the 120 required for graduation.

**Components:** Field Studies
Prereqs/Coreqs: P: junior standing

**PSYCHLGY 4730 Individual Study in Psychology**

**Components:** Independent Study
Prereqs/Coreqs: P: senior standing; 20 credits in Psych; 2.50 minimum GPA; 3.00 G.P.A. in psychology; completion of all general university requirements in English, speech and math

**PSYCHLGY 4830 Psychology and the Law**
Modern psychological principles in law enforcement, correction and treatment, and the delinquent and criminal personality with a survey of predictive instruments and special problems.

**Components:** Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing
PSYCHLGY 4840 3 credits
Substance Abuse I: Theory and Assessment
This course is designed to provide an overview of basic psychopharmacology, recreational drug use, substance abuse, and dependency. Included in this approach will be coverage of addiction theory, prevention, and assessment. Particular attention will be paid to risk and protective factors associated with abuse and dependency.
Components: Class
Cross Offering: CRIMLJUS 4840
Prereqs/Coreqs: P: CRIMLJUS 1130, PSYCHLGY 1130 or SOCIOLGY 1030 and junior standing; a biology course is recommended

PSYCHLGY 4850 3 credits
Substance Abuse II: Intervention and Special Populations
This course is designed to provide an overview of the fundamental theories, principles, and techniques of substance abuse counseling. In addition to gaining theoretical knowledge of recognized substance abuse counseling interventions, students will also practice these intervention skills in class. Issues related to case management will be covered including treatment planning, goal setting, continual assessment, referral, record management, and written documentation. Particular attention will be paid to addressing the application of these interventions and case management procedures to culturally diverse special populations. Ethical issues related to substance use and professional responsibility will also be discussed.
Components: Class
Cross Offering: CRIMLJUS 4850
Prereqs/Coreqs: P: PSYCHLGY 4840 or CRIMLJUS 4840

PSYCHLGY 4930 3 credits
Techniques of Counseling
Survey of procedures used by psychologists, including counseling and limited psychodiagnoistics. Practice procedures and applications are also emphasized.
Components: Class
Prereqs/Coreqs: P: nine credits in psychology and junior standing

PSYCHLGY 4940 3 credits
Advanced Techniques of Counseling and Psychotherapy
This course provides students opportunities to expand, implement and refine counseling skills. It affords opportunities for students to learn more advanced techniques, as well as to practice basic counseling skills. The course covers processes of counseling, ethical considerations, theoretical applications, and special populations.
Components: Class
Prereqs/Coreqs: P: PSYCHLGY 4930 or COUNSLED 7020 or consent of instructor

PSYCHLGY 4950 3 credits
Social Work Practice with Groups and Families
Expands upon the approaches learned in PSYCHLGY 4930 and extends them to work with families and groups. This course focuses on evidence-based social work practice methods, including assessment and intervention techniques used by human service workers. This course emphasizes the general systems theory and the ecological perspective. Social work values and ethics will be addressed.
Components: Class
Prereqs/Coreqs: P: PSYCHLGY 4930 or consent of instructor

RECLAM 1010 3 credits
Introduction to Reclamation
The basis for reclamation in ethics and practice. Applications of science, agriculture, engineering and law in reclamation problems answered through lecture and field presentations made by the major faculty members of the reclamation program and guest speakers from the profession.
Components: Laboratory, Class

RECLAM 3010 1–3 credits
Current Topics in Reclamation
Selected topics in current reclamation problems examined in either lecture, laboratory, or field presentations.
Components: Laboratory, Class

RECLAM 3020 3 credits
Reclamation Revegetation
Selection and identification of adapted herbaceous and woody species for reclamation, site revegetation, and planting methods. Restoration techniques for design, construction and maintenance of wetlands, prairie, woodland, and riparian habitat.
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 3450 or RECLAM 1010 or consent of instructor

RECLAM 3880 3 credits
Environmental Law
A study of historical concepts and common law rules and their effect on the development of environmental law; examination of state and federal statutes, regulations and case law relating to land use, pollution control and preservation of natural resources; exploration of the legal frontiers of environmental protection and restoration.
Components: Class
Prereqs/Coreqs: C: four credits of lab science and junior standing

RECLAM 3900 3 credits
Reclamation Demonstration Field Trip
A field trip of approximately two-week duration taken during summer or spring interim to major reclamation projects and research centers. The trip is run in successive years to different regions of the United States. The role of local, state, and federal governments and private industry in reclamation is studied through numerous site visits. The keeping of a photographic log and journal is required. One trip is required of all reclamation majors.
Components: Field Studies
Prereqs/Coreqs: P: sophomore standing or consent of instructor

RECLAM 3940 3 credits
GIS / GPS and Mapping
Geospatial concepts integrating digital orthophotography, global positioning systems, and geographic information systems for natural resource and conservation-related applications. Use of technology in conjunction with a field component.
Components: Laboratory, Class
Prereqs/Coreqs: P: COMPUTER 1830 or consent of instructor
RECLAM 4660 3–6 credits
Cooperative Field Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry, or institution. The nature of the assignment, type of experience, number of credits, and evaluation procedure to be stipulated in an agreement between the student and director of reclamation.
Components: Field Studies
Prereqs/Coreqs: P: junior standing or consent of instructor

RECLAM 4920 1–3 credits
Independent Study
Independent research project with a written report or paper required. Done under supervision of a faculty member.
Components: Independent Study

RECLAM 4940 3 credits
Reclamation Project Management
Project management concepts are applied to environmental and conservation-related issues and activities. Concepts include definitions, role of project manager, project life cycle, project control cycles, project management tools, project team and organizational factors, and plan implementation. Leadership, team building and communication skills are emphasized. Service learning projects, written reports, and presentations.
Components: Class
Prereqs/Coreqs: P: junior standing or consent of instructor

SOIL AND CROP SCIENCE

SCSCI 1260 3 credits
Crop Science
Basic principles of crop production which include classification and identification, morphology, anatomy, physiology, climatology, plant-soil interrelationships, cultural practices, harvesting, cropping systems, and management.
Components: Class

SCSCI 2230 4 credits
Soils
Origin, nature, and environment for plants; productivity as influenced by soil, cropping system, and management.
Components: Laboratory, Class

SCSCI 3200 3 credits
Pest Identification and Management
The basic principles of weed, insect, and disease pest identification and integrated pest management (IPM) in agricultural and urban environments involving biological, cultural, and chemical control of pests as it relates to production decisions, environmental impacts, and management of pest resistance.
Components: Laboratory, Class
Prereqs/Coreqs: P: AGSCI 1240 or ENVHort 1320 or SCSCI 1260 or BIOLOGY 1350 or consent of instructor

SCSCI 3220 4 credits
Plant Development and Biotechnology
Students will use the methods of science as employed through plant cell culture and biotechnology to explore the development of plant tissues and organs in vitro. Topics include plant anatomy and growth regulators, development of axillary and adventitious shoots, direct and indirect somatic embryogenesis, the use of biotechnology for plant improvement, and biometric statistical analysis and data interpretation. Students will be expected to review and critique published scientific articles, conduct statistical analysis of data and write interpretive papers based on results gained from experiments conducted in the laboratory.
Components: Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P: AGSCI 1240 or ENVHort 1320 or SCSCI 1260 or BIOLOGY 1350 or consent of instructor

SCSCI 3260 3 credits
Seed and Grain Crops
Principles and practices used in the production and evaluation of seed for sale and commercial market grain crops.
Components: Laboratory, Class
Prereqs/Coreqs: P: AGSCI 1240 or SCSCI 1260 or consent of instructor

SCSCI 3310 1 credit
Soils, Crops and Environmental Horticulture Seminar
Review of current literature.
Components: Seminar
Cross Offering: ENVHort 3310
Prereqs/Coreqs: P: AGSCI 1240 or ENVHort 1320 or SCSCI 1260 or BIOLOGY 1350 or consent of instructor

SCSCI 3330 3 credits
Soil Morphology and Classification
Morphology and classification of soils, interpreting and using soil survey information, describing and mapping soil properties.
Components: Laboratory, Class
Prereqs/Coreqs: P: SCSCI 2230

SCSCI 3340 3 credits
Nutrient Management in Agriculture
Components: Laboratory, Class
Prereqs/Coreqs: P: AGSCI 1240 OR ENVHort 1320 OR SCSCI 1260 or SCSCI 2230 or consent of instructor

SCSCI 3350 3 credits
Soil Fertility and Fertilizers
In-depth exploration of the physical, chemical, and biological properties of soils in relation to productivity and management. Discussion of the use, composition, and production of soil amendments including lime, fertilizers, and manure. Laboratory techniques for soil testing and interpretations of soil test results.
Components: Laboratory, Class
Prereqs/Coreqs: P: SCSCI 2230 and CHEMSTRY 1050 or CHEMSTRY 1140 or CHEMSTRY 1450
SCSCI 3380 Special Problems in Soil Science 1–3 credits
Individual study in specialized areas of soils.
Components: Independent Study
Prereqs/Coreqs: P: SCSCI 2230

SCSCI 3390 Special Problems in Crop Science 1–3 credits
Crop experimentation or research interpretation in breeding, physiology, crop production, or crop chemicals.
Components: Independent Study
Prereqs/Coreqs: P: AGSCI 1240 or SCSCI 1260 and consent of instructor

SCSCI 4240 4 credits
Plant Breeding
Students will study the methods and principles used for the genetic improvement of important agronomic and horticultural crops. Topics include plant reproduction and pollination; gene recombination, structure and inheritance; use of mutations, fertility-regulating mechanisms, induction of polyploidy and biotechnology in plant improvement; plant selection; breeding of self-pollinated, cross-pollinated and clonally propagated crops; and establishment of field plots, recording data and use of statistics to analyze genetic traits and experimental treatments used to modify plant genomes.
Components: Class
Prereqs/Coreqs: P: AGSCI 1240 or ENVHORT 1320 or SCSCI 1260 or BIOLOGY 1350 or BIOLOGY 3330 or consent of instructor

SCSCI 4250 3 credits
Weed Science
Identification of weeds; chemical, biological and cultural methods of control; influence on production.
Components: Laboratory, Class
Prereqs/Coreqs: P: SCSCI 1260 or ENVHORT 1320 or AGSCI 1240 or consent of instructor

SCSCI 4320 3 credits
Forage Crops
Plants that provide feed for domestic animals, particularly emphasizing the methods of production and management of grass and legume crops and the harvesting and processing of quality hay, pasturage, and silage.
Components: Laboratory, Class
Prereqs/Coreqs: P: SCSCI 1260 or ANSCI 1000 or consent of instructor

SCSCI 4340 3 credits
Plant Physiology
Fundamentals of plant physiology including plant cellular constituents and their biosynthesis, photosynthesis, respiration, plant water relations, mineral nutrition, and assimilation of inorganic nutrients, transport processes in plant cells and tissues, physiological effects of plant hormones, and the physiological aspects of vegetative growth and plant reproduction.
Components: Laboratory, Class
Prereqs/Coreqs: P: AGSCI 1240 or ENVHORT 1320 or SCSCI 1260 or BIOLOGY 1350 or consent of instructor

SCSCI 4350 3 credits
Soil and Water Conservation
The application of physical, chemical, and biological principles to soil and water conservation.
Components: Laboratory, Class
Prereqs/Coreqs: P: SCSCI 2230

SCSCI 4370 3 credits
Soil Physics
Physical properties, moisture relations, and methods of physical analysis of soil with respect to soil structure, soil water, soil air, and soil temperature.
Components: Laboratory, Class
Prereqs/Coreqs: P: SCSCI 2230

SCSCI 4580 3–6 credits
Soil and Crop Science Internship
Supervised experiential learning opportunities in cooperation with businesses and public agencies related to Soil and Crop Science.
Components: Field Studies
Prereqs/Coreqs: P: 45 credits completed or IP and 12 credits of SCSCI completed or IP and good standing and approval of Internship Coordinator.

SOCIAL AND ENVIRONMENTAL JUSTICE

SEJ 2230 3 credits
Introduction to Social and Environmental Justice
Introduction to major issues related to social and environmental justice through an interdisciplinary examination of historical, cultural, social, political, economic, and environmental issues dominating our planet.
Components: Class
GE: Humanities

SEJ 4660 3–6 credits
Cooperative Field Experience
The student is expected to engage in a project in an off-campus setting that significantly involves the practice of social and/or environmental justice. The nature of the assignment, type of experience, number of credits and evaluation procedures are to be stipulated in a statement of agreement (learning contract) between the student and the SEJ Program.
Components: Field Studies
Prereqs/Coreqs: P: SEJ 2230 and junior standing or consent of instructor

SEJ 4940 2–3 credits
Capstone Seminar
Upon returning from their off-campus field experience, students will engage in an evaluation of their field experience and an integration of that experience with their prior course work.
Components: Discussion
Prereqs/Coreqs: P: SEJ 4660 and junior standing or consent of instructor
### SOCIOLGY

**SOCIOLGY 1030**  
3 credits  
**Principles of Sociology**  
An introduction to the study of society. This course examines concepts such as group interaction, social interaction, culture, norms, values, status, role, and deviance, and explores how these relate to organizations, institutions, stratification, and social behavior.  
- **Components:** Class  
- **GE:** Social Sciences

**SOCIOLGY 1130**  
3 credits  
**Introduction to Anthropology**  
Brief survey of the four sub-disciplines of anthropology: archaeology, linguistics, cultural anthropology and physical anthropology. Using an evolutionary framework, basic concepts and theories of anthropology will be introduced.  
- **Components:** Class  
- **GE:** International Education, Social Sciences

**SOCIOLGY 1230**  
3 credits  
**Marriage and Family**  
Dating, courtship, engagement, sexual expression, marriage adjustment and childrearing in American society as related to success and failure in marriage.  
- **Components:** Class  
- **GE:** Social Sciences

**SOCIOLGY 2130**  
3 credits  
**Cultural Anthropology**  
General introduction to the methods, theories, concepts and subject matter of cultural anthropology. The nature of culture, the social system, cultural change, cultural evolution, and culture as a symbol system will be considered.  
- **Components:** Class  
- **GE:** International Education, Social Sciences

**SOCIOLGY 2230**  
3 credits  
**Women, Sex Roles and Society**  
An investigation of the status of women and how women live their lives in relationship to each other and to men. The course examines women’s current conditions in the United States, alternative conditions in other times and places, and the prospects for change. Different attempts to explain those conditions and relationships are examined.  
- **Components:** Class  
- **Cross Offering:** WOMGENDR 2230  
- **GE:** Gender Studies, Social Sciences

**SOCIOLGY 2330**  
3 credits  
**Contemporary Social Problems**  
An overview of the causes, consequences and potential solutions of modern social issues and problems such as majority-minority relations, gender roles, deviance, population, resources, crime, war and peace, unemployment and economic disruption; and consideration of the place of social planning.  
- **Components:** Class  
- **GE:** Social Sciences

**SOCIOLGY 3130**  
3 credits  
**Social Change**  
A broad overview of social and cultural change. Major theories of social change are presented; selected specific changes occurring in our society and in other cultures are examined.  
- **Components:** Class  
- **GE:** Social Sciences  
- **Prereqs/Coreqs:** P: SOCIOLGY 1030

**SOCIOLGY 3230**  
3 credits  
**Human Relations**  
Social stratification based upon race, gender, social class, nationality, and cultural differences. Prejudice and discrimination are analyzed and the causes of both are studied. Using cross-cultural comparisons, students are helped to gain a better understanding of the forces that promote conflict and those that promote accommodation or harmony. The role of textbook and literature materials in promoting or reducing race and ethnic hostility is analyzed through study of both texts and literature.  
- **Components:** Class  
- **Cross Offering:** ETHNSTDY 3230  
- **GE:** Ethnic Studies, Social Sciences  
- **Prereqs/Coreqs:** P: SOCIOLGY 1030

**SOCIOLGY 3330**  
3 credits  
**Crime and Delinquency**  
A survey of the fields of criminology and juvenile delinquency. The course presents a sociological analysis of criminal and delinquent behavior, examines theory and empirical research on the topic, surveys the historical development of the present systems of dealing with criminals and delinquents, and considers current issues regarding crime and delinquency.  
- **Components:** Class  
- **GE:** Social Sciences  
- **Prereqs/Coreqs:** P: SOCIOLGY 1030

**SOCIOLGY 3430**  
3 credits  
**Social Research**  
A survey of techniques of sociological research, including research design, data collection and data analysis, stress on alternative types of research procedures and their relative strengths and weaknesses.  
- **Components:** Class  
- **GE:** Social Sciences  
- **Prereqs/Coreqs:** P: SOCIOLGY 1030 or POLISCI 1130

**SOCIOLGY 3530**  
3 credits  
**Rural Sociology**  
An introduction to the nature and consequences of change in contemporary rural society. Current conditions are placed in a historical context and future directions for agriculture and rural communities are considered. Special attention is paid to socio-economic and environmental impacts resulting from changes in agricultural technology, government policy, population shifts, and changes in the scale of food production. Differing visions regarding the future shape of rural America and the international food system will be considered.  
- **Components:** Class  
- **GE:** Social Sciences
SOCIOLGY 3630 3 credits
Sociology of the Family
The family as a social system with emphasis on culture, group processes, and institutions interacting with the nuclear family and alternate types of family.
Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: SOCIOLGY 1030

SOCIOLGY 3930 1–3 credits
Topics in Sociology
Designed to present to students specialized topics in the field of sociology. For example, the sociology of medicine, and the sociology of aging. Sociology and the future as shown through science fiction and other futuristic writings, and studies of utopias might be presented depending upon interests of students.
Components: Class

SOCIOLGY 4030 3 credits
Social Organizations
The organizations through which society sustains and perpetuates itself and its members; examination will range from the small group to the bureaucratic structure.
Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: SOCIOLGY 1030

SOCIOLGY 4660 1–8 credits
Cooperative Field Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure will be stipulated in a statement of agreement (learning contract) between the student and department.
Components: Field Studies

SOCIOLGY 4730 1–3 credits
Individual Study
Independent study supervised by a staff member; primarily for sociology minors.
Components: Independent Study

SOFTWARE ENGINEERING

SOFTWARE 2730 3 credits
Introduction to Software Engineering
An introduction to software engineering principles, including discussions of development methodologies, requirements analysis, project planning, software design, software construction, software management, software quality, and CASE tools. Students gain experience, via a team project, in the life-cycle development of software systems.
Components: Class
Prereqs/Coreqs: C: COMPUTER 2430

SOFTWARE 3330 3 credits
Intermediate Software Engineering
A more detailed discussion of several software engineering topics included in previous courses including requirements engineering, software modeling, user-interface design, development processes and process improvement. Moderate size GUI-based group project.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2630 and SOFTWARE 2730

SOFTWARE 3430 3 credits
Object Oriented Analysis and Design
Requirements engineering, analysis, and specification using the object-oriented paradigm. Object-oriented architectural and detailed design. Use of an OOA&D modeling language such as UML. Investigation of OOA&D patterns. Moderate size, group project.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2430 AND SOFTWARE 2730

SOFTWARE 3730 3 credits
Software Quality
Study of the topics related to producing quality software, including software quality assurance, quality metrics, configuration management, verification & validation, reviews, inspections, audits, and software process improvement models. Individual and team projects.
Components: Laboratory, Class
Prereqs/Coreqs: P: COMPUTER 2630 and SOFTWARE 2730

SOFTWARE 3860 3 credits
Software Maintenance and Reengineering
Study of the topics related to maintaining large-scale software systems. Study of software engineering topics such as estimation, software quality assurance, metrics, configuration management, verification & validation, inspections, and personal and team software process as they relate to software maintenance projects. Coverage of traditional analysis and design methods such as structured analysis and design. Two, semester-long, team-based projects: reengineering a small system to be object-oriented and making changes to a moderate-sized existing software project.
Components: Class
Prereqs/Coreqs: P: COMPUTER 2630 and SOFTWARE 3430

SOCIOLGY 4660 1–8 credits
Software Field Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure will be stipulated in a statement of agreement (learning contract) between the student and department.
Components: Field Studies
SOFTWARE 3950 4 credits
Software Engineering Cooperative Education
Work experience in industry under the direction of the College of Engineering, Mathematics and Science. Cooperative Education and Internship Program. During co-op the student is expected to be away from his/her studies at UW-Platteville and work for an industry for a semester and summer. Credits do not fulfill graduation requirements. Minimum cumulative GPA of 2.50 is recommended for participation.

Components: Field Study
Prereqs/Coreqs: P: Junior standing

SOFTWARE 4110 1 credit
Software Engineering Seminar
The course consists of lectures/discussions presented by both software engineering faculty and students enrolled in the class.

Components: Seminar
Prereqs/Coreqs: P: Software Engineering major and junior/senior standing

SOFTWARE 4130 3 credits
Real-Time Embedded Systems Programming
An exploration of programming techniques and constructs used to develop reliable software systems capable of responding in real time to environmental changes. An overview of the platforms, tools, and processes used in developing software for embedded systems. Hands-on lab projects experimenting with real-time embedded systems programming details.

Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: SOFTWARE 4130 and SOFTWARE 3430 and (ELECTENG 3780 or COMPUTER 3230)

SOFTWARE 4330 3 credits
Software Engineering Project I
Emphasis in applying software engineering knowledge learned in this course and previous courses to a large, team-based, capstone project that spans two semesters. In-depth study of several software engineering topics introduced in earlier courses, such as requirements engineering; analysis and design methods; planning and estimation; project management; and metrics. An introduction to formal methods for specification and design.

Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: SOFTWARE 3330 and SOFTWARE 3430

SOFTWARE 4730 3 credits
Software Engineering Project II
The project started in SOFTWARE 4330 is continued and carried to completion. In-depth study of several software engineering topics introduced in earlier courses, such as software construction tools and issues; unit development, review, testing, and maintenance; software reuse; and metrics. An introduction to current research issues in software engineering.

Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: SOFTWARE 3730 and SOFTWARE 4330

SOFTWARE 4980 1–4 credits
Current Topics in Software Engineering
In-depth study of a current topic of interest to the software engineering profession. The topic to be covered will be identified in the course title.

Components: Class

SOFTWARE 4990 1–3 credits
Independent Study
Advanced study in area of specialization selected by student and approved by faculty member.

Components: Independent Study

SPANISH

SPANISH 1840 4 credits
Elementary Spanish
Grammar, composition, conversation and beginning reading; emphasis upon oral practice and the language laboratory.

Components: Discussion, Laboratory, Class
GE: Foreign Language

SPANISH 1940 4 credits
Elementary Spanish
Continuation of Spanish 1840; language lab.

Components: Laboratory, Class
GE: Foreign Language
Prereqs/Coreqs: P: SPANISH 1840 or equivalent

SPANISH 2840 4 credits
Intermediate Spanish
Intensive and extensive reading of Spanish and Spanish American novels, plays and short stories; review of grammar; emphasis on oral practice and the language lab.

Components: Laboratory, Class
GE: Humanities, International Education
Prereqs/Coreqs: P: SPANISH 1940 or equivalent

SPANISH 2940 4 credits
Intermediate Spanish
Continuation of Spanish 2840; language lab.

Components: Laboratory, Class
GE: Humanities, International Education
Prereqs/Coreqs: P: SPANISH 2840 or equivalent
SPANISH 3000 1–4 credits
Foreign Languages Travel Abroad Seminar
A seminar with emphasis on language, literature and culture. Non-language students may take this course in English translation for credit in humanities but receive no foreign language credit. Students receive credits in Spanish or in literature translation for non-language students. Number of credits depends on duration of exposure, amount of reading, and quality of written work.

Components: Seminar
GE: Humanities, International Education
Prereqs/Coreqs: P: SPANISH 2840 or equivalent.
Non-language students should consult the department chairperson

SPANISH 3820 2 credits
Spanish Conversation and Composition I
This course stresses basic Spanish conversation as reflected in readings in the humanities (short stories, essays, social and cultural portrayals of the Hispanic world, etc.) and in real-life situations.

Components: Class
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 3830 3 credits
Spanish Civilization
The political, social, intellectual, artistic and literary development of the Spanish nation from its origin to the present.

Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 3840 1–3 credits
Topics in Hispanic Literature and Culture
Specific topics dealing with aspects of Hispanic literature or culture will be presented along thematic lines. This course presents themes from various literary movements (Renaissance, Baroque, Neoclassical, Romantic, Modernist and Contemporary). These topics cover a broad spectrum ranging from the Middle Ages in Spain to present trends in Spanish America.

Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: SPANISH 2940 or equivalent. Due to the thematic nature of this course, it may be taken more than once for credit, provided the content is different

SPANISH 3850 3 credits
Spanish American Literature and Culture I
An examination of representative texts from various Spanish American regions, covering the pre-Columbian period through the end of the 19th century (Spanish American modernismo).

Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 3860 3 credits
Spanish American Literature and Culture II
An examination of representative texts from various Spanish American regions, covering the 20th century. There will be an emphasis on the major literary and cultural movements and the historical context which helps us to understand them.

Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 3920 2 credits
Spanish Conversation and Composition II
This course stresses basic Spanish conversation as reflected in readings in the humanities (short stories, essays, social and cultural portrayals of the Hispanic world, etc.) and in real-life situations.

Components: Class
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 4620 2 credits
Cervantes
The life and times of Cervantes, his exemplary novels and Don Quixote.

Components: Class
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 4720 2 credits
Spanish Literature of the 20th Century
Contemporary masterpieces in the novel, drama, poetry and essay; lectures, discussion, exercises in translation and interpretation.

Components: Class
GE: Humanities, International Education
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 4820 2 credits
Phonetics
The theory of the pattern of sounds in Spanish with practical training in pronunciation. Required for a major or teaching minor in Spanish.

Components: Class
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 4830 3 credits
Introduction to Spanish Literature
Reading of selected masterpieces of Spanish literature.

Components: Class
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 4850 1–4 credits
Supervised Independent Study
For advanced students who wish to acquaint themselves further with Spanish literature, civilization or linguistics; thesis type report and examination; by special permission--number of credits to be determined at the beginning of the course.

Components: Independent Study
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 4930 3 credits
Introduction to Spanish Literature
Continuation of Spanish 4830.

Components: Class
Prereqs/Coreqs: P: SPANISH 2940 or equivalent
### SPEECH

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEECH 1010</td>
<td>Public Speaking</td>
<td>2</td>
<td>Students learn the fundamental theories and concepts of public communication and practice researching topics, organizing material, and presenting speeches with accompanying appropriate and natural nonverbal communication. Components: Class GE: Speech</td>
</tr>
<tr>
<td>SPEECH 2010</td>
<td>Speech Communication for Teachers</td>
<td>3</td>
<td>This course focuses on all facets of speech communication vital to teachers in the classroom. Student activities include simulated instructional presentations. Components: Class GE: Speech</td>
</tr>
<tr>
<td>SPEECH 2250</td>
<td>Communication &amp; Leadership in Small Groups</td>
<td>3</td>
<td>Students study contemporary theories and concepts surrounding communication in small groups. Students lead, participate in, and observe small group activities such as project planning, decision making, and task completion. Components: Class GE: Speech</td>
</tr>
<tr>
<td>SPEECH 2500</td>
<td>Topics in Speech</td>
<td>1–3</td>
<td>In depth study of topics of interest in speech communication. The topic to be studied will be identified in the course title. Components: Class</td>
</tr>
<tr>
<td>SPEECH 3010</td>
<td>Directed Studies in Forensics</td>
<td>1</td>
<td>Students apply effective oral communication skills by participating in the forensics program as competitive speakers, as tournament managers, and as tournament judges. Components: Independent Study</td>
</tr>
<tr>
<td>SPEECH 3250</td>
<td>Interpersonal Communication</td>
<td>3</td>
<td>The study of human communication and relationships. Contemporary theories and basic concepts concerning interpersonal communication are covered with an emphasis on dyadic communication. Components: Class GE: Social Sciences OR Speech</td>
</tr>
<tr>
<td>SPEECH 3990</td>
<td>Teaching Methods in Speech Communication</td>
<td>3</td>
<td>Students learn curriculum, test and measurement, setting course objectives, and setting course structure for drama, speech, debate, and other speech-related courses and activities. Components: Class</td>
</tr>
</tbody>
</table>

### SPEECH 4020

**History and Theory of Rhetoric**

3 credits

This course is designed for students who will use and/or teach rhetoric strategies and structures in the professional world. From speech and communication theory to the teaching of critical and interpretational writing and reading, the study of rhetoric’s place in the history of ideas will help students to understand the place and power of language in the university and the professional work place.

Components: Class
Cross Offering: ENGLISH 4020
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

### TEACHING

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 1230</td>
<td>Introduction to Education</td>
<td>2</td>
<td>An introduction to the broad fields of teaching; objectives and principles of education; an exploration of teaching as a career choice (including elementary, middle, and high school teaching). (Field experience: 20 hours) Components: Class</td>
</tr>
<tr>
<td>TEACHING 2010</td>
<td>Educational Media Theory</td>
<td>2</td>
<td>Teacher Candidates will be introduced to interrelationships of instructional design theory, selection, utilization and the operation of technology tools relevant to teaching in the classroom. Components: Laboratory, Class</td>
</tr>
<tr>
<td>TEACHING 2020</td>
<td>Middle Level Exploratory I</td>
<td>1</td>
<td>The seminars are designed to acquaint the student with the field of middle level education and with the education of young adolescents. The seminars will also assist the student in understanding the 10-14 licensure program. Components: Class</td>
</tr>
<tr>
<td>TEACHING 2030</td>
<td>Middle Level Exploratory II</td>
<td>1</td>
<td>The seminars are designed to acquaint the student with the field of middle level education and with the education of young adolescents. The seminars will also assist the student in understanding the 10-14 licensure program. Components: Class</td>
</tr>
</tbody>
</table>
TEACHING 2130  3 credits
Human Growth and Development
A general introduction to the developing child from infancy through adolescence. Individual students will focus on the developmental level of specific relevance to their future educational career. The physical, social, emotional, and cognitive areas of development will be reviewed in detail. Developmental research findings, individual differences, and the child's development as a member of society and culture will be highlighted. The implication of human development for education and other work with children and youth will be an important focus of the course. Satisfies social science in depth for all School of Education majors ONLY.
Components: Class

TEACHING 2210  3 credits
Foundations of Early Childhood Education
An overview of the field of early childhood education, including history, child development theory, program models and professional opportunities. Guided observation at the preschool level. The role of families and parent involvement is a component of this course. The School of Education conceptual design as it applies to early childhood education is explored. (Field experience: 10 hours.)
Components: Laboratory, Class

TEACHING 3040  4 credits
Reading, Literacy, and Literature I
Focus on beginning reading techniques, innovations and approaches to reading, phonics, and other decoding strategies in primary school; planning and teaching reading lessons; assessing success in reading; examining the historical value of literature for children; integrating literature into the reading program; laboratory experiences in elementary classrooms.
Components: Laboratory, Class
Prereqs/Coreqs: C: TEACHING 3130 and TEACHING 3240 and TEACHING 4420

TEACHING 3110  2 credits
Key Concepts of Middle Level Education
This course is intended to provide students with an introductory understanding of the philosophy and organization of middle level education. Emphasis is directed toward programmatic considerations.
Components: Class
Prereqs/Coreqs: P: admission to the School of Education and TEACHING 1230; C: TEACHING 3120

TEACHING 3120  2 credits
Characteristics of Transcendents
This course focuses on the physical, intellectual, emotional and social development of young adolescents.
Components: Class
Prereqs/Coreqs: P: TEACHING 1230; C: TEACHING 3110

TEACHING 3130  3 credits
K-4 Methods for Cognitive Development
Teaching strategies and classroom management techniques appropriate for kindergarten and the primary grades. (Laboratory/Field experience)
Components: Class
Prereqs/Coreqs: C: TEACHING 3040 and TEACHING 3240 and TEACHING 4420

TEACHING 3230  3 credits
Teaching Science at the Middle and Secondary Schools
Methods, procedures and materials for science curriculum and instruction in the middle and secondary school. The School of Education knowledge base as it applies to science instruction is explored. Required of majors and minors in the natural sciences.
Components: Class
Prereqs/Coreqs: P: admission to the School of Education

TEACHING 3240  3 credits
Pre-K Methods for Cognitive Development
Theory of cognitive development of infants, toddlers and preschool children. Age-appropriate activities in the areas of health, math, science, social studies, ethnic studies, environmental education and creative thinking for preschool level. (Laboratory/Field experience)
Components: Class
Prereqs/Coreqs: C: TEACHING 3040 and TEACHING 3130 and TEACHING 4420

TEACHING 3320  3 credits
Introduction to Inclusion
This course will expose students to several theories that impact the teaching and the learning process with a focus on the learner with exceptional learning needs.
Components: Discussion, Class
Prereqs/Coreqs: P: TEACHING 2130 or PSYCHLGY 3130 or PSYCHLGY 3230 and TEACHING 1230 or PHYSED 2320 or consent of instructor

TEACHING 3530  3 credits
Teaching History and Social Studies at the Middle and Secondary Schools
A study of the goals, skills, issues, materials and the role of history and social studies instruction in middle and high schools. The School of Education knowledge base as it applies to history and social studies instruction is explored.
Components: Class
Prereqs/Coreqs: P: admission to the School of Education

TEACHING 3630  3 credits
Ethnic and Gender Equity in Education
To increase an appreciation, understanding, and awareness of ethnic and gender equity issues in the educational process and in society. The student will view equity issues through research, historical, philosophical, sociological, and psychological perspectives and the implications that each arena has on the lives of all of us. (Field experience 25 hours)
Components: Discussion, Class
Cross Offering: WOMENDR 3630, ETHNSTDY 3630
GE: Ethnic Studies, Gender Studies

TEACHING 3640  3 credits
Creative Development in Early Childhood
Theories and techniques for the enhancement of creative expression in young children. Age-appropriate activities in the areas of art, music, movement and dramatic play.
Components: Class
TEACHING 3730  3 credits
Guidance, Assessment, Instruction and Classroom
Management in Early Childhood Guidance, social emotional adjustment, developmental assessment, effective teaching strategies, classroom management techniques, and continuity of learning experiences. Review and critique of authentic and standardized assessment instruments for both formative and summative evaluation and report to parents.

Components: Class
Prereqs/Coreqs: P: TEACHING 1230 and TEACHING 2210

TEACHING 3840  4 credits
Reading in the Content Area for Middle Secondary Students
The purpose of this course is to promote the understanding of reading instruction and to assist teacher candidates in their competence in developing effective reading and language arts skills and habits in their students, especially in the content fields, in middle and high school. Required for early adolescence/adolescence teacher candidates.

Components: Class

TEACHING 4020  2 credits
Educational Media Application
This course will focus on the creation of instructional materials. Class activities incorporate hands-on, practical applications related to Educational Media Technology and its use in the classroom.

Components: Laboratory, Class
Prereqs/Coreqs: P: TEACHING 2010

TEACHING 4030  3 credits
Management for Children with Disabilities (CWD)
This course is designed to increase awareness and ability to implement various behavior management strategies with children with Specific Learning Disabilities (SLD) and with children with Emotional Behavioral Disabilities (EBD). Within this awareness, teachers will be able to prepare and implement an effective behavior management plan that will assist students in school, home and community. This class will present the spectrum of intervention and social skill strategies, motivational techniques along with guidelines for their use with children, transescents, and adolescents with SLD and EBD.

Components: Class
Prereqs/Coreqs: P: admission to the School of Education

TEACHING 4040  4 credits
Reading, Literacy and Literature II
Reading processes, expanding word recognition strategies, comprehension, reading rates, vocabulary, reading interests, selection and use of reading materials, evaluation of the reading progress, laboratory experiences with children, integrating literature into middle childhood.

Components: Laboratory, Class
Prereqs/Coreqs: P: TEACHING 3040

TEACHING 4050  18 credits
Middle Level Professional Semester
This course is designed for students seeking certification to teach at the middle level. Through this course, students will develop, practice, refine, and demonstrate the knowledge, skills, and dispositions needed to become excellent middle level teachers. The course will address methods of teaching that are specific to the core content areas of language arts, mathematics, science, and social studies, as well as more general teaching methods appropriate for use at the middle level. The course will include a study of the physical, intellectual, emotional, social, and moral development of young adolescents. Educational philosophies and theories of learning will be discussed, and students will become proficient in the use of various assessment and evaluation strategies and in the use of technology in the classroom. A field experience in a middle school is included in this course.

Components: Class
Prereqs/Coreqs: P: admission to the School of Education

TEACHING 4060  3 credits
Teaching World Languages: Theory and Practice
Designed to prepare future teachers of French, German, and Spanish for successful careers. This course blends the theory of second language acquisition with the practice of teaching according to the State Standards.

Components: Class

TEACHING 4070  2 credits
Post Student Teaching Seminar
This course is designed as a capstone course for pre-service teachers who are completing the middle level education 10-14 (early adolescence) licensure program. Throughout this course, pre-service teachers will develop, practice, refine, and demonstrate the knowledge, skills, and dispositions needed to become excellent middle level teachers. Students will complete their licensure/level III portfolios that are required for licensure and program graduation. The course will reflect on the methods of teaching that pre-service teachers drew from their experiences of student teaching. The course will use practical experiences to put into context the developmental natures of early adolescent learners and how those natures impact classroom practices. Educational philosophies and theories of learning will be discussed.

Components: Seminar

TEACHING 4090  4 credits
Integrated Methods: Language Arts and Social Studies
This course focuses on connections of content, methods, and developmental needs of early childhood/elementary language arts and social studies.

Components: Laboratory, Class
Prereqs/Coreqs: P: admission to the School of Education; C: Teaching 4140

TEACHING 4120  1 credit
Pre-Student Teaching and Seminar in an Inclusionary Environment
Observation of children/youth in learning situations, participation in learning activities of the classroom, teaching several lessons, and evaluation of teaching-learning experiences in a CWD environment. Required of students working towards a special education/inclusion minor.

Components: Seminar
Prereqs/Coreqs: P: admission to the School of Education
TEACHING 4140  4 credits
Teaching Mathematics and Science in Early Childhood and Elementary Settings
This course addresses standards, methods, theories, and materials related to teaching mathematics and science in early childhood and elementary settings.
  Components: Class
  Prereqs/Coreqs: P: a “C-” or better in MATH 3030 and admission to the School of Education. C: TEACHING 4090

TEACHING 4150  3 credits
Assessing Children with Disabilities (CWD)
A survey of psychological testing with emphasis on the evaluation, administration, interpretation, and statistical analysis of the results of psychological testing devices and techniques.
  Components: Class
  Prereqs/Coreqs: P: admission to the School of Education

TEACHING 4200  3 credits
Transitions for Children with Disabilities (CWD)
This course is designed to help teachers acquire knowledge and develop skills and strategies that will help them make school learning more relevant to life outside of and after K-12 school. Students will study and evaluate developmental career and vocational education, transition, and education for employment programs and approaches. Course emphasis is on development of educational approaches and programs for students with exceptional educational needs.
  Components: Class
  Prereqs/Coreqs: P: admission to the School of Education

TEACHING 4210  1–2 credits
Pre-Student Teaching at Middle/Secondary Level
Observations of youth in learning situations, participation in the learning activities of the classroom, teaching several lessons, and evaluation of teaching-learning experiences. Required of students who are preparing to teach 10-21, middle/secondary, or B-21 special subject majors. Students should take this course concurrently with the appropriate methods. (Field experience: 40 hours per credit)
  Components: Class
  Prereqs/Coreqs: P: admission to the School of Education

TEACHING 4220  2 credits
Advising, Interaction and Communication
This course focuses on the classroom counseling skills required of middle school teachers to include listening, group dynamics, encouragement and non-verbal communication. The emphasis of the course will be on group guidance activities in the classroom setting.
  Components: Class
  Prereqs/Coreqs: P: admission to the School of Education; TEACHING 3110 and TEACHING 3120; C: TEACHING 4620

TEACHING 4240  1–6 credits
Student Teaching - Early Childhood
  Components: Field Studies
  Prereqs/Coreqs: P: admission to the School of Education

TEACHING 4250  2 credits
Senior Seminar
This course provides a balanced view of the sociological, philosophical, and ethical forces affecting early childhood/ middle childhood education in America. Students will re-model lesson plans with critical thinking strategies and reflect on prior experiences in schools in order to form judgments about ethical teaching behavior.
  Components: Seminar
  Prereqs/Coreqs: P: TEACHING 3130 and TEACHING 3240 and TEACHING 3040 and TEACHING 3730 and TEACHING 4420

TEACHING 4260  2–6 credits
Student Teaching B-11 Kindergarten
  Components: Field Studies
  Prereqs/Coreqs: P: TEACHING 3040 and TEACHING 3130 and TEACHING 3240 and TEACHING 3730 and TEACHING 4420 C: TEACHING 4360 and TEACHING 4990

TEACHING 4330  3 credits
Administration and Family Relations in Early Childhood
Development of managerial and leadership roles, knowledge of requirements for licensure and licensing, effective communication with staff and parents, community relations, and advocacy.
  Components: Class
  Prereqs/Coreqs: P: TEACHING 2210

TEACHING 4360  6 credits
Student Teaching Elementary
  Components: Field Studies
  Prereqs/Coreqs: C: TEACHING 4260 and TEACHING 4990

TEACHING 4420  3 credits
Oral Language and Emergent Literacy
The development of communication, acquisition of language, development of phonology, structure of language, dialect variations, how language is acquired, assessment of language and communication skills, and classroom approaches to oral language development. (Laboratory/Field experience)
  Components: Class
  Prereqs/Coreqs: P: TEACHING 2210 or TEACHING 1230; C: TEACHING 3040 and TEACHING 3130 and TEACHING 3240

TEACHING 4460  6–12 credits
Student Teaching 10-14
  Components: Field Studies
  Prereqs/Coreqs: P: TEACHING 4050 or TEACHING 4220; C: TEACHING 4990

TEACHING 4530  1–3 credits
Current Topics in Education
Study of a selected topic determined by an identified need. For example: current issues, ideas and topics of interest to a particular group of teachers.
  Components: Class

TEACHING 4560  6 credits
Student Teaching 10-21 Secondary
  Components: Field Studies
  Prereqs/Coreqs: P: TEACHING 4050 or TEACHING 4220; C: TEACHING 4460 and TEACHING 4990
TEACHING 4620 2 credits
Teaching Transcendent
This course provides an overview of the curricular and instructional practices appropriate for the young adolescent learner. Issues, trends and research relevant to effective middle level practices will be discussed.
Components: Class
Prereqs/Coreqs: P: admission to the School of Education and TEACHING 3110 and TEACHING 3120; C: TEACHING 4220

TEACHING 4630 3 credits
Learning and Language Disorders
Course will review pre-kindergarten/Kindergarten through young adult development and identification with children with disabilities (CWD); emphasize diagnosis and remediation of learning disorders through a special education approach with emphasis on inclusion model; study of appropriate learning environments.
Components: Class
Prereqs/Coreqs: P: junior standing or consent of instructor

TEACHING 4660 6-12 credits
Student Teaching B-21
Components: Field Studies
Prereqs/Coreqs: P: TEACHING 4210 or PHYSED 4530; C: TEACHING 4990

TEACHING 4670 3 credits
Methods of Teaching English as a Second Language
Examines the characteristics of second or other language acquisition and how they influence the effectiveness of different methods of teaching English as a Second Language. Includes teacher/learner characteristics and strategies, teaching varieties of language, review of methodologies, communicative competence, and syllabus design.
Components: Class
Cross Offering: ENGLISH 4670
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

TEACHING 4710 1-3 credits
Independent Study in Education
Supervised individual study of a topic selected by the student with staff approval.
Components: Independent Study

TEACHING 4730 2 credits
Working with Families of Children with Disabilities (CWD)
Course enables teachers and other professionals to provide parents and other family members with knowledge and skills to become full partners in the educational process by learning advocacy techniques. Professionals need more information relative to parent's needs and participation. Identification of needs and concerns of family members of persons with disabilities should lead to design of programs that facilitate family participation in all phases of schooling process. Teachers and parents working together should lead to more effective outcomes for students with disabilities as they go through school and prepare to live, work and recreate in the community as adults.
Components: Class

TEACHING 4750 3 credits
Practicum in Teaching English as a Second Language
Observing teachers and students in TESL settings, participating in TESL teaching and tutoring activities including lesson preparation, and evaluating the teaching/learning experiences.
Components: Class
Cross Offering: ENGLISH 4740

TEACHING 4760 12 credits
Internship in Teaching
This course is designed for those teacher education candidates who have been hired as intern teachers by school districts to fulfill the Department of Public Instruction required student teaching practicum. As part of this course, the teacher candidate will complete the professional teacher education graduation portfolio.
Components: Field Studies
Prereqs/Coreqs: P: TEACHING 4120 or TEACHING 4050 or TEACHING 4210 or (TEACHING 3040 and TEACHING 3130 and TEACHING 3240 and TEACHING 3730 and TEACHING 4420); C: TEACHING 4990

TEACHING 4830 3 credits
Strategies for Effective Inclusion
This course is designed to help the future/current general education teacher to meet the needs of students with disabilities who are in general classrooms. This class is designed to increase the comfort level, skill level, and confidence level of teachers with this work.
Components: Class

TEACHING 4990 3 credits
Licensure Portfolio
This course fulfills the Department of Public Instruction requirement regarding Licensure Portfolios. The portfolio is based upon the Wisconsin Standards for Teachers. Students are required to submit their portfolio prior to graduation and licensure. Portfolios are submitted to UW-Platteville School of Education faculty members who evaluate them and provide feedback until the portfolio meets the requirements. Enrollment is concurrent with student teaching. Offered as Pass/Fail.
Components: Class
Prereqs/Coreqs: P: admission to School of Education and admission to student teaching

THEATRE

THEATRE 1130 3 credits
Introduction to the Theatre
A survey of the historical, literary and practical elements of the theatre.
Components: Class
GE: Fine Arts

THEATRE 1230 3 credits
Stagecraft
An introduction to scenery and lighting for theatrical production; includes sections on health and safety, construction, planning and research. Involves work on theatre productions.
Components: Laboratory, Class
THEATRE 1340 3 credits
Introduction to Design
An introduction to the elements and principles of design as applied to theatre. Includes theatre-specific rendering techniques and design projects.
Components: Class

THEATRE 1930 3 credits
Voice and Diction
The study of the speaking voice; vocal production, articulation, pronunciation and interpretation of text.
Components: Class

THEATRE 2220 1 credit
Practicum I
Supervised participation in productions, including but not limited to smaller acting roles, run crew, assistant directing or assistant stage managing, and assisting with props, costumes, set, construction and/or lighting.
Components: Laboratory
Prereqs/Coreqs: P: consent of instructor

THEATRE 2500 1–3 credits
Topics in Theatre
In depth study of topics of interest in theatre. The topics to be studied will be identified in the course title.
Components: Class
Prereqs/Coreqs: P: consent of instructor

THEATRE 2730 3 credits
Beginning Acting
Introduction to modern acting methods and the development of vocal and physical instruments through monologue and scene study.
Components: Laboratory, Class

THEATRE 2740 3 credits
Actor in Musical Theatre
Introduction to acting in a musical theatre context through the study of musical theatre songs and techniques for their performance.
Components: Class
Prereqs/Coreqs: P: consent of instructor

THEATRE 2900 3 credits
Dance for Musical Theatre
A dance workshop class for learning several styles of dance found in the American musical tradition. Basic elements of choreography for musicals from solo to large group dance numbers.
Components: Class

THEATRE 2950 3 credits
Movement for Theatre
An exploration of the fundamentals of movement and body awareness that is necessary for acting in theatre.
Components: Class

THEATRE 3130 3 credits
Play Analysis
An introduction to Formalist analysis of dramatic literature emphasizing a play’s plot, character, themes, dialogue, images, tempo/rhythm and production values. Representative works from the dramatic literary canon will be read and analyzed through lecture and small group discussion.
Components: Class
Prereqs/Coreqs: P: THEATRE 1130

THEATRE 3210 3 credits
Lighting Design
Discussion and project work in the development and presentation of lighting for the theatre.
Components: Laboratory, Class
Prereqs/Coreqs: P: THEATRE 1230 and THEATRE 1340 and THEATRE 3130

THEATRE 3220 3 credits
Theatre Teaching Methods
Methods, procedures and instructional materials for teaching theatre in the secondary school curriculum.
Components: Class

THEATRE 3240 3 credits
Costume Design
Discussion and project work in the development and presentation of costumes for the theatre.
Components: Laboratory, Class
Prereqs/Coreqs: P: THEATRE 1230 and THEATRE 1340 and THEATRE 3130

THEATRE 3250 3 credits
Scenic Design
Discussion and project work in the development and presentation of scenery for the theatre.
Components: Laboratory, Class
Prereqs/Coreqs: P: THEATRE 1230 and THEATRE 1340 and THEATRE 3130

THEATRE 3450 1 credit
Practicum II
Advanced participation in productions, including, but not limited to acting in a main role, stage managing, and designing.
Components: Laboratory
Prereqs/Coreqs: P: THEATRE 2220 and permission of the instructor

THEATRE 3830 3 credits
Advanced Scene Study
Advanced scene work for the actor. Emphasis will be placed on character analysis, identifying scene objectives, playing intentions, relationships with other characters, and developing a physical and vocal characterization. Scenes will be chosen from modern dramatic literature.
Components: Laboratory, Class
Prereqs/Coreqs: P: THEATRE 2730

THEATRE 3900 3 credits
Intermediate Dance
This course is designed to build upon the technical foundation established in the Dance For Musical Theatre class, introducing students to the technique and style of tap and jazz dancing, specifically as it relates to the musical theatre stage.
Components: Class
Prereqs/Coreqs: P: THEATRE 2900

THEATRE 3920 3 credits
Classical Acting
In depth exploration of the heightened textual demands and complex vocal and physical skills needed to perform classical theatre, with particular emphasis on Shakespearean and Greek drama.
Components: Laboratory, Class
Prereqs/Coreqs: P: THEATRE 3830
THEATRE 4210 3 credits
Dramatic Literature I
Survey of dramatic literature from 1660-1945.
Prereqs/Coreqs: P: THEATRE 1130

THEATRE 4220 3 credits
Dramatic Literature II
A continuation of THEATER 4210. A survey of dramatic literature from 1945 to the present.
Components: Laboratory, Class
Prereqs/Coreqs: P: one design course (THEATRE 3210 or THEATRE 3240 or THEATRE 3250) and THEATRE 2730 or consent of instructor

THEATRE 4330 3 credits
Directing
A historical, theoretical and practical approach to the principles and techniques of directing for the theatre.
Components: Laboratory, Class
Prereqs/Coreqs: P: THEATRE 1130

THEATRE 4530 1–3 credits
Independent Study
Supervised exploration of a particular specialization in theatre.
Components: Independent Study

THEATRE 4630 3 credits
Theatre History I
A general survey of the rise and development of the theatre and drama from its western origins to Shakespeare.
Components: Class
GE: Fine Arts
Prereqs/Coreqs: P: THEATRE 1130

THEATRE 4660 1–9 credits
Cooperative Field Experience
Enhancement of the educational experience through placement of a student with a cooperative agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department.
Components: Field Studies

THEATRE 4730 3 credits
Theatre History II
A continuation of THEATRE 4630. A general survey of the rise and development of the theatre and drama from the Restoration to the present.
Components: Class
GE: Fine Arts
Prereqs/Coreqs: P: THEATRE 1130

THEATRE 4830 3 credits
Seminar in Theatre
A critical examination of an area within the theatre field, the specific subject to be determined by the instructor, the needs of the students and the current problems in the field.
Components: Class

THEATRE 4840 3 credits
Gay and Lesbian Drama
A detailed survey of the rise and development of gay and lesbian characters and themes in British and primarily American theatre during the 20th Century. Particular emphasis will be placed on dramatic literature and theatrical criticism and production since 1990.
Components: Class
GE: Gender Studies
Cross Offering: WOMGENDR 4840
Prereqs/Coreqs: P: ENGLISH 1230

THEATRE 4850 3 credits
Multicultural Dramatic Literature
An in-depth survey of the rise and development of minority characters and themes in American theatre since the 20th Century. Particular emphasis will be placed on the dramatic literature and theatrical criticism and production since 1990.
Components: Class
GE: Ethnic Studies
Prereqs/Coreqs: P: ENGLISH 1230

THEATRE 4930 3 credits
Senior Capstone
Senior thesis project in acting, directing and design.
Components: Independent Study
Prereqs/Coreqs: P: consent of instructor

UW-PLATTEVILLE STUDY

UWPSTUDY 1010 1 credit
Introduction to College Life
This course is designed to provide a student with some of the academic and social skills that are necessary to successfully complete their academic career. Topics include successful study skills necessary to maintain success in college level study, student rights and responsibilities, campus diversity issues, academic policies, academic advising and registration, time management, and campus resources for students.
Components: Class
GE: Entry Level requirement

UWPSTUDY 2800 1–5 credits
Special Topics
Topics will vary and be of a type that does not easily fit into normal and current departmental coverage or are multidisciplinary. Topics can also be current contemporary issues or ones that are being tested for future standing.
Components: Class

UWPSTUDY 3000 1–3 credits
Liberal Arts & Education Short Term International Experience
Short-term (less than full semester) educational experience abroad. Open to any student who meets the prerequisites (if any) as determined by the sponsoring program, department, or school in the College of Liberal Arts & Education. May be used to fulfill the general education requirement in international education; if taken for less than 3 credits, other credits from the approved list of courses in international education are required in order to fulfill the 3-credit general education requirement.
Components: Class
UW PSTUDY 3010 1 credit
Conversational American English for International Students
This course will help inbound international students improve their English and function productively while they pursue their studies at UW-Platteville. The course will focus primarily on American culture, including current events, holidays, and campus life. In addition students will improve their idiomatic, spoken English, and become familiar with American writing conventions.
Components: Class
Prereqs/Coreqs: P: inbound international student or consent of instructor

UW PSTUDY 3020 1–3 credits
BILSA Short-Term International Experience
Short-term (less than full semester) educational experience abroad. Open to any student who meets the prereqs/coreqs (if any) as determined by the sponsoring program, department, or school. Course instructor must be a member of the College of Business, Industry, Life Science & Agriculture. May be used to fulfill the general education requirement in international education. If taken for less than 3 credits, other credits from the approved list of courses in international education are required in order to fulfill the 3-credit general education requirement.
Components: Class

UW PSTUDY 3030 1–3 credits
EMS Short-Term International Experience
Short-term (less than full semester) educational experience abroad. Open to any student who meets the prereqs/coreqs (if any) as determined by the sponsoring program, department, or school. Course instructor must be a member of the College of Engineering, Mathematics and Science. May be used to fulfill the general education requirement in international education. If taken for less than 3 credits, other credits from the approved list of courses in international education are required in order to fulfill the 3-credit general education requirement.
Components: Class

UW PSTUDY 4800 1–8 credits
Interdisciplinary Special Topics
This course will focus on interdisciplinary topics. The course is to contain curriculum content from at least two disciplines (majors). The topic(s) covered will be identified in the course title. A syllabus, grading rubrics, textbooks, and assessment measures will be available during the preregistration process.
Components: Class

WOMEN’S AND GENDER STUDIES

WOMGENDR 1130 3 credits
Introduction to Women & Gender Studies
Introduction to major issues related to women through an interdisciplinary examination of the images of women in such areas as philosophy, history, literature, psychology and sociology. A primary focus is on 20th century American trends in such institutions as the family, education, law, politics and economics.
Components: Class
GE: Gender Studies, Humanities

WOMGENDR 2150 3 credits
Introduction to Gay Studies
Introduction to Gay Studies is an interdisciplinary course covering the history, culture, and politics of gay men, lesbians, bisexuals, and transgendered persons around the world. The course seeks to theorize, document, uncover, and revise our existing knowledge about same-sex attraction and gender identity and also examine a wide range of related historical figures and events. Using the lenses of social science, science, and the humanities, the course explores ways in which sexual orientation and gender limit and expand individual experience.
Components: Class
GE: Humanities and Gender
Cross Offering: ENGLISH 2150
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

WOMGENDR 2230 3 credits
Women, Sex Roles and Society
An investigation of the status of women and how women live their lives in relationship to each other and to men. The course examines women’s current conditions in the United States, alternative conditions in other times and places, and the prospects for change. Different attempts to explain those conditions and relationships are examined.
Components: Class
Cross Offering: SOCIOLOGY 2230
GE: Gender Studies, Social Sciences

WOMGENDR 2430 3 credits
Women and Health
This course provides a comprehensive view of women’s health through a wide variety of experiences and activities, focusing on the various aspects of wellness, mental health, reproductive health issues, and the aging process.
Components: Class
GE: Gender Studies, Health & Human Performance-Wellness

WOMGENDR 2530 3 credits
Psychology of Women
Explores the shaping of women’s behaviors and self-concepts by biological and social influences. Also covers the empirical support for and against gender-related differences in behavior and thought patterns.
Components: Class
Cross Offering: PSYCHOLOGY 2530
GE: Gender Studies, Social Sciences
Prereqs/Coreqs: P: PSYCHOLOGY 1130 or one course in women’s studies

WOMGENDR 2730 3 credits
Women in Science and Engineering
This course deals with the issues that confront women in science-related professions. An examination of the skills and talents needed to succeed is accomplished through study of both women in history and current professionals.
Components: Class
GE: Gender Studies, Social Sciences
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>WOMGENDR 2830</td>
<td>3</td>
<td>Survey of Women Writers</td>
<td>Survey of women writers in the English language with a focus on the themes, issues, and concerns that tie women's writing together and create a 'women's literary tradition.' British, American, and international writers are included. Components: Class, Cross Offering: ENGLISH 2830, GE: Gender Studies, Humanities, Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
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<tr>
<td>WOMGENDR 2930</td>
<td>3</td>
<td>Minority Women Writers of the United States</td>
<td>Literature written by Native-American women, African-American women, Latina-American women, and Asian-American women. Includes investigation of historical and cultural backgrounds as well as literary traditions of minority women of the United States. Students will read authors such as Alice Walker, Toni Morrison, Maya Angelou, Maxine Hong Kingston, Sandra CISNEROS, Louise Erdrich, Leslie Marmon Silko, and others. Components: Class, Cross Offering: ENGLISH 2930 AND ETHNSTDY 2930, GE: Ethnic Studies, Gender Studies, Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
</tr>
<tr>
<td>WOMGENDR 3110</td>
<td>3</td>
<td>Gay and Lesbian Literature for Young Adults</td>
<td>An analysis of selected gay and lesbian literature and films especially suitable for young adults of high school age with an emphasis on approaches and methods for teaching literature and addressing the needs of GLBT students. Components: Class, Cross Offering: ENGLISH 3110, GE: Gender Studies, Humanities, Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
</tr>
<tr>
<td>WOMGENDR 3170</td>
<td>3</td>
<td>Space, Place, and Gender</td>
<td>An introduction to gender and geography. The role of gender in the study of geography, which is concerned with places, linkages, patterns of flow, locations, landscape, and the social/political/economic production of space. Components: Discussion, Class, Cross Offering: GEOGRPHY 3170, GE: Gender Studies</td>
</tr>
<tr>
<td>WOMGENDR 3200</td>
<td>3</td>
<td>Gender and Popular Culture</td>
<td>This course examines the theoretical and practical ways that popular culture represents, creates, and challenges stereotypes of women, men, and differently gendered people. Students will explore dominant strategies and theories used in the creation and analysis of advertising, television, music, movies, and popular literature, as well as the emerging commercial media of Internet advertising, digitized movies, and blogs. We will focus primarily, but not exclusively on popular culture experienced within (or exported from) the United States. Components: Class, Cross Offering: MEDIA 3200, GE: Gender Studies, Social Sciences, Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and Media 1630 or WOMSTD 1130</td>
</tr>
<tr>
<td>WOMGENDR 3280</td>
<td>3</td>
<td>Gay and Lesbian Literature</td>
<td>While focusing primarily on contemporary gay and lesbian fiction, this course also provides an overview of the evolution of international gay and lesbian literature from its beginnings to the present, including such authors as Sappho, HAFIZ, SADI, WHITMAN, WILDE, CATHER, WOOLF, FORSTER, GIDE, HUGHES, LORCA, RIMBAUD, STEIN, BALDWIN, BISHOP, GINSBERG, and LORDE. Components: Class, Cross Offering: ENGLISH 3280, GE: Gender Studies, Humanities, Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
</tr>
<tr>
<td>WOMGENDR 3330</td>
<td>2–3</td>
<td>Topics in Women &amp; Gender Studies</td>
<td>Selected topics in women and gender studies. The specific topic will vary each semester and will be announced in the class schedule. May be repeated for credit under different topic headings. Components: Class, GE: Gender Studies, Prereqs/Coreqs: P: three credits in women’s studies</td>
</tr>
<tr>
<td>WOMGENDR 3340</td>
<td>3</td>
<td>Management, Gender &amp; Race</td>
<td>This course reviews the changing nature of management and explains why gender and race/ethnicity have become important concerns of business. It examines the status of women and people of color in managerial or administrative positions and discusses socialization processes, stereotypes, equal employment opportunity laws, diversity management, illegal harassment, and power in organizations. Networking, mentoring, work/life balance, and career planning also are addressed. Components: Class, Cross Offering: BUSADMIN 3340 AND ETHNCSTUDY 3340, GE: Ethnic Studies, Gender Studies, Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500 or junior standing</td>
</tr>
<tr>
<td>WOMGENDR 3430</td>
<td>3</td>
<td>Women and the Arts</td>
<td>The focus is on the contributions of women in the areas of theatre, dance, music, film, and the visual arts. In addition to classroom participation, the course includes attendance at live performances and presentations by guest lecturers. Components: Class, GE: Fine Arts, Gender Studies</td>
</tr>
<tr>
<td>WOMGENDR 3520</td>
<td>3</td>
<td>American Women's History</td>
<td>Surveys the changing patterns of domestic and family life, work, education and public participation of American women from the Colonial period to the present. Components: Class, Cross Offering: HISTORY 3520, GE: Gender Studies, Historical Perspective, Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
</tbody>
</table>
WOMGENDR 3530            3 credits
Philosophy’s Feminist Future: From Powerism to Personalism
With a focus on major representatives of philosophical thought, this course will examine ideas that have promoted civilization along sexist lines and other ideas that can contribute to the development of a new kind of civilization rooted in a respect for persons.
Components: Class
Cross Offering: PHILSPHY 3530
GE: Gender Studies, Humanities
Prereqs/Coreqs: P: three credits in philosophy or WOMSTD 1130 or consent of instructor

WOMGENDR 3630            3 credits
Ethnic and Gender Equity in Education
To increase an appreciation, understanding, and awareness of ethnic and gender equity issues in the educational process and in society. The student will view equity issues through research, historical, philosophical, sociological, and psychological perspectives and the implications that each arena has on the lives of all of us. (Field experience 25 hours)
Components: Discussion, Class
Cross Offering: TEACHING 3630, ETHNSTDY 3630
GE: Ethnic Studies, Gender Studies

WOMGENDR 3650            3 credits
Women and Gender in Latin American History
Examines the continuities and ruptures in the lives of Latin American women from the colonial period to the present. Compares and contrasts the roles of women from different classes, ethnic groups, and regions. This course considers women’s history through individual life stories and by looking at the social, cultural, and institutional contexts of their lives, with a focus on women as historical actors.
Components: Class
Cross Offering: HISTORY 3650
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1020 or HISTORY 1430 or consent of instructor

WOMGENDR 3700            3 credits
Women in European Civilization
Covers activities of, and attitudes towards, women in ancient Greece and Rome, the Middle Ages, the Renaissance, the Reformation, the Enlightenment, the French Revolution, the 19th century, the two modern wars, and the end of the 20th century. Analyzes women in the context of family life, work life, education, politics, science, and social movements.
Components: Class
Cross Offering: HISTORY 3700
GE: Gender Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor

WOMGENDR 3730            3 credits
Women and the Law
A study of women in their legal roles as wives and mothers, workers and students, criminals and victims of crime. The course examines how the law affects women’s personal choices regarding marriage, having children, and aiming for high-level achievements in education and in work. Also examines ways in which law affects women in poverty and in old age.
Components: Class
Cross Offering: CRIMLJUS 3730
GE: Gender Studies, Social Sciences
Prereqs/Coreqs: P: CRIMLJUS 1130 or one course in women’s studies and junior standing

WOMGENDR 3830            3 credits
Black Women and Feminism in the U.S.
An interdisciplinary examination of the historical and contemporary relationship between black women in the United States and the feminist movement. Authors discussed may include Frances Harper, Ida Wells-Barnett, bell hooks, Audre Lorde, and others.
Components: Class
Cross Offering: ETHNSTDY 3830
GE: Ethnic Studies, Gender Studies
Prereqs/Coreqs: sophomore standing to enroll in this class

WOMGENDR 4500            3 credits
Women and Mythology: Goddess, Witch, Sibyl
This course takes a comparative and interdisciplinary approach tonuminous images of the feminine as they appear internationally. By exploring pre-historical, historical, and contemporary manifestations of goddess-centered mythology and religious practices around the world, students will broaden their understanding of women’s contributions to the literary and spiritual traditions of many cultures.
Components: Class
Cross Offering: ENGLISH 4500
GE: Gender Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

WOMGENDR 4660            3 credits
Cooperative Field Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department.
Components: Field Studies
Prereqs/Coreqs: P: WOMSTD 1130 and junior standing

WOMGENDR 4730            3 credits
Individual Research in Women’s Studies
Advanced work on a scholarly subject or project, to be directed by a faculty member on the Women’s Studies Program Council.
Components: Independent Study
Prereqs/Coreqs: P: WOMSTD 1130 and junior standing

WOMGENDR 4840            3 credits
Gay and Lesbian Drama
A detailed survey of the rise and development of gay and lesbian characters and themes in British and primarily American theatre during the 20th Century. Particular emphasis will be placed on dramatic literature and theatrical criticism and production since 1990.
Components: Class
Cross Offering: THEATRE 4840
GE: Gender Studies
Adams, Karen (2011); Marketing Director, Distance Learning Center, Alternative Delivery Systems; B.A., Clarke College.

Akins, Matthew S. (2012); Assistant Professor, Animal Science, School of Agriculture; B.S., University of Wisconsin-Platteville; M.S., University of Arkansas; Ph.D., University of Wisconsin-Madison.

Albers, Mark A. (2004); Assistant Professor, Industrial Studies, Department of Industrial Studies; B.S., M.S., University of Wisconsin-Platteville.

Albert, Keith R. (2010); Assistant Coach and At Risk Advisor, Intercollegiate Athletics; Lecturer, Pioneer Academic and Transitional Help; B.A., Loras College; M.S.E., University of Wisconsin-Platteville.

Alcalay, Eugene (2005); Professor, Music, Department of Performing and Visual Arts; B.M., Indiana University School of Music; M.M., D.M.A., The Juilliard School.

Alcalay, Ruth E. Mayers (2005); Senior Lecturer, History, Department of History; B.A., Oxford University; M.S., Ph.D., Washington University.

Aldworth, Kelly Jo (2009); Assistant Director, Student Union, Student Centers; B.A., Winona State University; M.S., University of Wisconsin-Platteville.

Almqist, James N. (1998); Senior Lecturer, General Engineering, Department of General Engineering; B.S., M.S., University of Wisconsin-Madison.

Amin, Mohammad (2010); Student Services Program Manager, Admission and Enrollment Services; B.S., University of Dubuque; M.S., University of Wisconsin-Platteville.

Anderson, Donna L. (2003); Director, International Education Program; B.A., Luther College; M.A., Loras College.

Anderson, Laura J. (1996); Professor, Foreign Languages (French and Spanish), Department of Humanities; B.A., Dana College; M.A., Ph.D., University of Missouri-Columbia.

Anderson, Steven (2011); Developmental Skills Specialist, Student Support Services, Academic Affairs; B.S., Loras College.

Annamalai, V. Raja (2011); Assistant Professor, Chemistry, Department of Chemistry; B.S., Georgia Institute of Technology; Ph.D., University of Pennsylvania.

Antczak, Thomas R. (1992); Coach, Intercollegiate Athletics; Lecturer, Physical Education, School of Education; B.S., M.S., University of Wisconsin-La Crosse.

Arzt, Jason D. (2011); Associate Counselor, University Counseling Services; Student Affairs; B.A., M.S.Ed., University of Wisconsin-Platteville.

Arzt, Jennifer (2010); Assistant Director, Residence Life, Student Affairs; B.A., University of Wisconsin-Stevens Point; M.S., University of Wisconsin-Platteville.

Attenborough, Holly (2013); Assistant Professor, Mathematics, Department of Mathematics; B.S., M.A. Miami University; Ph.D., Indiana University.

Avenarius, Daniel (2011); Director, Distance Education, Alternative Delivery Systems; B.A., Loras College; M.S., University of Wisconsin-Platteville.

Austin, Larry L. (1989); Lecturer, Civil Engineering, Department of Civil and Environmental Engineering; B.S., University of Wisconsin-Platteville. Registered Professional Engineer and Land Surveyor.

Baily, Marcia Harr (2013); Assistant Professor, Instruction and Entrepreneurship Coordinator, Department of Business and Accounting; B.S., Upper Iowa University; M.S., Cardinal Stritch University; Ph.D., Fordham University.

Balachandran, Swaminathan (1985); Professor, Industrial Engineering, Department of Mechanical and Industrial Engineering; B.E., University of Madras (India); M.E., Indian Institute of Science; Ph.D., Virginia Polytechnic Institute.

Ball, James A. (2001); Director, Student Union, Student Affairs; B.A., Pittsburgh State University; M.S.E., University of Nebraska-Lincoln.

Ball, Tracy (2013); Interim Career Consultant, Career Center, Student Affairs; B.A., Truman State University; M.A., Missouri State University.

Banachowski-Fuller, Cheryl A. (1997); Professor, Criminal Justice, Department of Criminal Justice; B.S., M.A., University of Toledo; Ph.D., North Carolina State University.

Banerjee, Swagata (2012); Associate Professor, Agribusiness, School of Agriculture; B.Sc., University of Calcutta (India); M.S., University of Nevada; Ph.D., University of Georgia.

Barnard, Mark (2013); Production Services Coordinator, Production Services, Student Centers; B.A., University of Wisconsin-River Falls.

Barnett, Barbara A. (1999); Professor, Mathematics, Department of Mathematics; Chair, Department of Mathematics; B.S., Bradley University; M.S., Ph.D., Iowa State University.

Barraclough, Dominic J. (1999); Director, School of Graduate Studies & Academic Projects, Academic Affairs; Professor, Counseling Psychology, School of Education; B.A., University of Washington, Seattle; M.S., Central Washington University; Ph.D., University of North Dakota.

Barry, Brian (2014); Assistant Professor, Chemistry, Department of Chemistry; B.S., University of Northern Iowa; Ph.D., University of Iowa.

Baxter, Christopher A. (2003); Professor and State Nutrient Management Specialist, Agriculture. School of Agriculture; B.S., University of Wisconsin-Platteville; M.S., Ph.D., Purdue University.

Bayless, Laura A. (2013); Assistant Vice Chancellor for Student Affairs; Academic Affairs; B.A., Denison University; M.S., Miami University; Ph.D., Virginia Tech.

Bayraktar, Tuba (2006); Associate Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.Sc., Sulayman Demirel University (Turkey); M.Sc., Istanbul Technical University (Turkey); Ph.D., Old Dominion University.

Becvarik, Rachel A. (2013); Assistant Professor, Statistics, Department of Mathematics; B.A., Luther College; M.S., Ph.D., Florida State University.

Beegle, Melissa (2014); Program Coordinator, Education Abroad, International Programs, University Diversity & Inclusion; B.A., M.A., Bowling Green University.

Belanger, Jeremy (2014); Transfer Advisor, Admission and Enrollment Services; B.A., Luther College.

Belken, Johanna (2008); Editor, University Information and Communications, University Advancement; B.A., University of Wisconsin-Platteville.

Belken, Stephanie (2012); Administrative Program Manager, Alumni Services, University Advancement; B.S., University of Wisconsin-Platteville.
Benish, Steven G. (2005); Associate Professor, Counseling Psychology, School of Education; B.S., M.S.E., University of Wisconsin-Platteville; Ph.D., UW-Madison.

Berg, John L. (1997); Senior Academic Librarian, Karrmann Library; B.A., St. John’s University; M.Div., St. John’s School of Theology; M.A., UW-Madison.

Bernhardt, Kevin J. (1996); Professor, Agricultural Industries, School of Agriculture; Director, Pioneer Academic Center for Community Engagement; B.S., Iowa State University; M.S., North Carolina State University; Ph.D., University of Nebraska-Lincoln.

Black, Michael (2013); Assistant Professor, Statistics, Department of Mathematics; B.S., Brigham Young University; M.S., Ph.D., University of Nebraska-Lincoln.

Blevins, Sarah (2007); Financial Aid Counselor and University Scholarship Coordinator, Financial Aid, Student Affairs; B.S., University of Wisconsin-Platteville.

Bockhop, Richard L. (2002); Professor, Agriculture, School of Agriculture; B.S., M.S.E., University of Wisconsin-Platteville; Ph.D., Iowa State University.

Boebel, Bohn, Justine (2012); Instructional Program Manager, Writing and Tutoring Resource Center; Student Affairs; B.A., University of Wisconsin-Platteville.

Bohnhoff, Gretchen (2013); University Fellow, College of Engineering, Mathematics and Science, Diversity and Inclusion; B.S., M.S., University of Wisconsin-Madison.

Borchering, Jodi (2011); Associate Student Services Specialist, Children’s Center; Student Affairs; B.S., University of Wisconsin-Platteville.

Borke, John C. (1981); Professor, Accounting, Department of Business and Accounting; B.S., M.A.S., Northern Illinois University; C.P.A. (Illinois).

Boyles, David C. (1990); Professor, Mathematics, Department of Mathematics; B.S., M.S., Northern Illinois University; Ph.D., UW-Madison.

Breckenridge, Ryanne (2007); Head Athletic Trainer, Department of Athletics; Lecturer, Department of Health and Human Performance; B.A., St. Ambrose University; M.A., Loras College.

Bredeson, Heidi (2012); Advisor, Career Center; Student Affairs; B.S., University of Wisconsin-Platteville; M.S., University of Wisconsin-Whitewater.

Breitner, Michael (2010); Director, Performing Arts Facilities; B.S., University of Wisconsin-Stevens Point; M.S., Eastern Illinois University.

Brick-Margelofsky, Sandy (2013); Program Manager, Center for Veteran & Non-Traditional Student Services, Diversity and Inclusion; B.S., University of Wisconsin-Oshkosh; M.S.E., University of Wisconsin-Platteville.

Bromley, Patricia L. (1992); Professor, Psychology, Department of Psychology; M.S.E. Adult Education Coordinator, School of Education; B.A., UW-Madison; M.S.E., University of Wisconsin-Platteville; Ph.D., UW-Madison.

Brooke, Wendy A. (2007); Assistant Professor, Business Administration, Department of Business and Accounting; B.S., Missouri State University; M.S., University of Wisconsin-Platteville.

Broussard, Rosalyn S. (1996); Professor, Political Science, Department of Social Sciences; Interim Director, Ethnic Studies; B.A., Southern University; M.A., Ph.D., State University of New York at Binghamton.

Brown, Jonathan (2013); PreCollege Coordinator, Multicultural Student Affairs; B.A., M.A., Trinity International University.

Buboltz, Jeffrey (2008); Associate Professor, Chemistry, Department of Chemistry; B.S., UW-Madison; Ph.D., Cornell University.

Buechler, Dale N. (2006); Professor, Electrical Engineering; Department of Electrical Engineering, Rock County Program; B.S., M.S., University of Arizona; Ph.D., University of Utah.

Burns, Teresa M. (1994); Professor, English, Department of Humanities; Chair, Department of Humanities; B.A., M.A., University of Florida; Ph.D., University of Houston.

Burton, Sabina (2009); Associate Professor, Criminal Justice, Department of Criminal Justice; B.S., M.S., University of Munich (Germany); Ph.D., University of California at Irvine.

Busch, Dennis L. (2005); Assistant Scientist, Pioneer Farm; B.S., M.S., University of Wisconsin-Platteville; Ph.D., University of Minnesota.

Byers, Stacie M. (2005); Advisor and Marketing Manager, Prospective Student Services, Admission and Enrollment Services, Student Affairs; B.A., Loras College.

Calcaterra, Robert A. (1983); Professor, Mathematics, Department of Mathematics; B.S., Brooklyn College; M.A., Ph.D., UW-Madison.

Campbell, Guy R. (2013); Lecturer, Mechanical Engineering, UW-Washington County Collaborative; B.S., University of Notre Dame; M.S., GMI Engineering and Management Institute.

Candito, Kara (2010); Assistant Professor, English, Department of Humanities; M.F.A., University of Maryland; Ph.D., Florida State University.

Carey, Delbert P. (2005); Senior Lecturer, History, Department of Social Sciences; B.S., University of Wisconsin-Platteville; M.A., Ph.D., Marquette University.

Carothers, Todd (2009); Assistant Professor, Accounting, Department of Business and Accounting; B.B.A., UW-Eau Claire; M.B.A., UW-Madison.

Cartmill, Donita (2009); Assistant Professor, Agriculture, School of Agriculture; B.S., Stephen F. Austin State University; M.S., Ph.D., Texas A & M University.

Caywood, Katherine (2011); Associate Admission Advisor, Prospective Student Services, Admission and Enrollment Services; B.A., University of Wisconsin-Platteville.

Caywood, Thomas E. (1991); Professor, Criminal Justice, Department of Criminal Justice; B.S., M.S., Central Missouri State University; Ph.D., Sam Houston State University.

Ceylan, Tamer (1982); Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., Middle East Technical University (Turkey); M.S., Ph.D., UW-Madison. Registered Professional Engineer.

Chang, Lily (2011); Assistant Professor, Computer Science, Department of Computer Science and Software Engineering; M.S., New Jersey Institute of Technology; Ph.D., Florida International University.

Chang, Mu-Ling (2001); Professor, Mathematics, Department of Mathematics; B.S., Tonghai University (Taiwan); M.S., Tamkang University (Taiwan); Ph.D., University of Maryland.

Chattopadhay, Soma (2010); Assistant Professor, Chemistry, Department of Chemistry; B.S., B.Tech, Calcutta University (India); Ph.D., University of Illinois at Urbana-Champaign.

Chellevoit, David A. (2000); Senior Lecturer, Education, School of Education; B.A., Luther College; M.S.E., University of Wisconsin-Platteville.
Chen, Hao (2010); Assistant Professor, Media Studies, Department of Media Studies; B.A., Huazhong University of Technology and Science; M.A., Ph.D., University at Buffalo, State University of New York.

Chisolm, Martin D. (2002); Lecturer, Speech, Department of Performing and Visual Arts; B.A., Johnson Smith University; M.A., University of Kansas.

Christison, Charles G. (1999); Administrative Program Specialist, Distance Learning Center; B.S., UW-Stevens Point; M.S., UW-Madison.

Ciesielski, Dennis J. (1997); Professor, English, Department of Humanities; B.A., Arkansas College; M.A., Ph.D., Southern Illinois University.

Clements, Mark A. (1997); Senior Information Technology Architect; Information Technology; B.S., University of Wisconsin-Platteville.

Clendenen, Holly (2012); Director, Development, University Advancement; B.S., University of Wisconsin-Platteville; M.S., Ashford University.

Clifton, Joseph M. (1984); Professor, Software Engineering, Department of Computer Science and Engineering; Chair, Department of Computer Science and Software Engineering; B.S., University of Wisconsin-Platteville; Ph.D., Iowa State University.

Clough, Jill M. (1985); Professor, Industrial Engineering, Department of Mechanical and Industrial Engineering; B.S., M.S., Ph.D., University of Iowa.

Collins, Benjamin V.C. (2000); Professor, Mathematics, Department of Mathematics; B.A., Central College; M.S., University of Michigan-Ann Arbor; Ph.D., UW-Madison.

Collins, Thomas S., (2011); Associate Professor, Business Administration, Department of Business and Accounting; b.B.A., M.A., University of Iowa; J.D., University of Iowa College of Law.

Compton, Michael E. (1995); Professor, Agricultural Sciences, School of Agriculture; Director, School of Agriculture; A.A.S., Danville Area Community College; B.S., M.S., Southern Illinois University; Ph.D., Virginia Polytechnic University.

Connolly, Pamela J. (1996); Lecturer, Education, School of Education; B.A., University of Colorado-Boulder; M.A., University of Northern Iowa.

Cool, Andrea M. (1999); Senior Lecturer, English, Department of Humanities; B.A., University of Wisconsin-Platteville; M.A., University of Missouri-Columbia.

Cooley, Dennis R. (1998); Assistant Chancellor for Advancement, Development; B.S., UW-La Crosse.

Cooper, David T. (2005); Associate Professor, Music, Department of Performing and Visual Arts; Chair, Department of Performing and Visual Arts; B.M., Lawrence University; M.M., University of Akron; D.M.A., UW-Madison.

Cordingly, Allen E. (2006); Lecturer, Music, Department of Performing and Visual Arts; B.M., Youngstown State University; M.M., Lawrence University.

Cornett, Catherine A. (2003); Senior Lecturer, Biology, Department of Biology; B.S., UW-River Falls; M.S., Iowa State University.

Cornett, Charles R. (2001); Professor, Chemistry, Department of Chemistry; B.S., King College; Ph.D., University of Kentucky.

Cornils, Margaret A. (2005); Lecturer, Music, Department of Performing and Visual Arts; B.M., M.M., Northern Illinois University.

Covert, Tom W. (1997); Information Processing Consultant, Information Technology; B.S., University of Wisconsin-Platteville.

Cramer, Robert G. (2007); Vice Chancellor for Administrative Services; B.A., Alma College; M.S., M.A., UW-Madison.

Curras, Christina J. (2000); Professor, Civil Engineering, Department of Civil and Environmental Engineering; Chair, Department of Civil and Environmental Engineering; B.S., M.S., Ph.D., University of California-Davis.

Curry, Kathryn (2011); Associate Budget Planner, University Budget, Administrative Services; B.S. Edgewood College.

Curtiss, Kelly (2008); Outreach Specialist, Business Administration, Department of Business and Accounting; B.S., Central Michigan University.

Daeuber, Ulz (2001); Senior Lecturer, Physical Education, School of Education; Assistant Coach, Intercollegiate Athletics; M.S., M.S., Heidelberg University; M.S.E., University of Wisconsin-Platteville.

Dahlquist, C. Daniel (1997); Associate Professor, Speech, Department of Performing and Visual Arts; B.S., M.F.A., Ph.D., Southern Illinois University.

Dalby, Kristin (2014); Coordinator, English Language Program, International Programs; B.A., University of Wisconsin-Madison; M.A., University of Leicester, (UK).

Dalecki, Michael G. (1991); Professor, Sociology, Department of Social Sciences; B.S., University of Wisconsin-Platteville; M.S., Texas Christian University; Ph.D., Pennsylvania State University.

Dales, Mary Pat (2005); Senior Lecturer, English, Department of Humanities; B.A., University of Wisconsin-Platteville; M.A. UW-Madison; Ph.D., University of Colorado-Boulder.

Dalsing, Deirdre L. (2003); Director, University Counseling Services, Student Affairs; B.S., UW-Madison; M.A., Loras College.

Daniels, Nettie (2014); Executive Director; Institutional Effectiveness & Assessment, Academic Affairs; B.S., M.S.E.D., Alcorn State University.

Dargel, Dan L. (1992); Information Processing Consultant, Information Technology; B.S., University of Wisconsin-Platteville.

Davis, Peter (2010) Director, Physical Plant; B.S., University of Wisconsin-Platteville.

Day, Susan Savage (2011); Assistant Professor, Music, Department of Performing and Visual Arts; B.A., University of Wisconsin-Platteville; M.M., D.M.A., UW-Madison.

deCoste, Jennifer (2012); Assistant Chancellor for Diversity and Inclusion, Chancellor’s Office; Chief Diversity Officer; B.Mus., Hartt School of Music; M.S., University of Hartford; Ph.D., Penn State University.

Deis, Timothy M. (1999); Professor, Mathematics, Department of Mathematics; B.S., M.A., Mankato State University; M.S., Ph.D., University of Nebraska-Lincoln.

Demaree, Rebekah A. (1993); Lecturer, Music, Department of Performing and Visual Arts; B.A., Indiana University; M.M., University of Idaho.

Demaree, Robert K. (1992); Professor, Music, Department of Performing and Visual Arts; B.S., Indiana University; M.A., University of Iowa; D.M.A., University of Illinois at Urbana-Champaign.

Demerse, Katherine (2012); Student Services Coordinator, Student Affairs; B.S., University of Wisconsin-Eau Claire; M.S., University of Wisconsin-La Crosse.

Dempsey, Brittanie (2014); Financial Aid Counselor & Scholarship Specialist, Financial Aid; B.S., University of Wisconsin-Oshkosh.

Dexter, Tyler (2013); Interim Assistant Athletic Trainer, Intercollegiate Athletics; B.S., Central Washington University; M.S., Weber State University.
Den Herder, Mittie J. Nimocks (1986); Provost and Vice Chancellor for Academic Affairs; Professor, Speech, Department of Performing and Visual Arts; B.S., University of Southern Mississippi; M.A., University of Illinois; Ph.D., University of Florida.

Dhyanchand, Richard (2010); Assistant Professor, Biology, Department of Biology; B.S., Wheaton College; M.S., M.D., American University of the Caribbean, School of Medicine.

Dickey, Thomas (2013); Assistant Professor, Music, Department of Performing and Visual Arts; B.A., Eastern Illinois University; M.A., Louisiana State University; Ph.D., University of Georgia.

Dietmeier, Lindsay (2013); Interim Development Specialist, Intramural Athletics; B.A., University of Wisconsin-Platteville.

Dornak, L. Lynnette (2014); Assistant Professor, Geography, Department of Geology & Geography; B.S., M.S., Stephen F. Austin State University; Ph.D., University of Kansas.

Doyle-Morin, Rebecca (2010); Assistant Professor, Biology, Department of Biology; B.A., Lawrence University; Ph.D., Cornell University.

Donahoe, Jessica J. (1999); Senior Academic Librarian, Karrmann Library; B.A., UW-Madison; M.A., School of Library and Information Studies, UW-Madison.

Doser, Linda R. (2004); Lecturer, Education, School of Education; B.S., M.S.E., University of Wisconsin-Platteville.

Drake, Dawn M. (1987); Executive Director, Alternative Delivery Systems; B.S., University of Wisconsin-Platteville; M.B.A., UW-Whitewater.

Dreger, Ian (2013); Resident Director, Residence Life, Student Affairs; B.A., University of Wisconsin-Stevens Point; M.S. Northeastern University.

Dreesens, Vickie L. (1994); Director, University Health Services; R.N., Mercy School of Nursing; Nurse Prac., UW-Milwaukee.

Drefcinski, Shane D. (1997); Professor, Philosophy, Department of Humanities; Director, General Education and Assessment; B.A., College of St. Thomas; M.A., Ph.D., University of Minnesota.

Droessler, Kathy (2014); Integrated Mating & Communications Specialist; Distance Learning Center, Alternative Delivery Systems; B.S., University of Wisconsin-Platteville.

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Voigt, Sara (2011); Associate Budget Planner, University Budget, Administrative Services; B.S. University of Wisconsin-La Cross; M.B.A., Drake University.

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John C. Adams ................................................. Economics
Kahtan Al Yasiiri .............................................. Economics
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John E. Ambrosius ............................................. Agricultural Industries
Max L. Anderson ............................................. Civil Engineering
Terry L. Baker .................................................. Physics
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Gloria Rezzeddeh .................................................................Library
Reza Rezazadeh .............................................................Political Science
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DuWayne Stuelke .....................................................Industrial Studies
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Charles Sundin .............................................................Chemistry
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Joseph Thomas .............................................................Industrial Studies
Dawson Trine .............................................................Mathematics
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Thomas Waters .............................................................Political Science
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<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dennis J. Shields</td>
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<tr>
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<td>Joyce Burkholder</td>
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</tbody>
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Ray Cross ................................................................. President
David Miller ................................................ Senior Vice President for Administration

and Fiscal Affairs
Mark Nook ........................................ Senior Vice President for Academic Affairs
Steve Wildeck ................................................... Interim Vice President for Finance
Tomas L. Stafford ............................................... General Counsel
James Villa ...................................................... Vice President for University Relations

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Michael J. Falbo ................................................ Milwaukee (Regent President)
Margaret Farrow ............................................... Milwaukee
Eve Hall
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Tim Higgins ...................................................... Appleton
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Geral Whitburn ................................................ Wausau
GLOSSARY

A Definition Primer for University Students
The following terms are used on a daily basis in describing academics and situations surrounding those we serve.

Academic Bankruptcy
Students who transfer from one University of Wisconsin-Platteville program to another may be granted the option to have their academic record adjusted. Students wishing to file academic bankruptcy must do so within one semester of the change of major. For specific instructions, students are requested to contact the Office of the Registrar.

Academic Year
The period from September to December, January through May in which classes are in session. Each of these periods is called a semester.

Add and Drop
This is a process designed for the purpose of changing a course schedule. The student visits the Office of the Registrar and "drops" the class not wanted, and "adds" the class desired.

Advising
The process of providing a student with the most complete, current information related to university life. This may include, but is not limited to, information in the areas of academics, resident life, financial planning, career planning and special events.

Bachelor's Degree
The degree received AFTER completing a specific program of undergraduate study as well as the completion of all graduation requirements.

Certification
The recognition by an outside organization of fulfillment of requirements to meet a professional standard.

Class Load
The number of credit hours carried by a student in any given semester or session.

Class Standing
A measurement of academic achievement based on the number of credit hours earned. For example, students with 90 or more credits are seniors, juniors have 60 or more credits and sophomores have at least 30 credits.

College Parallel Program
A program of study offered at some Wisconsin technical colleges, or at a recognized technical college from another state. Courses in these programs have been identified in advance of transfer by the university and the technical college.

College/School/Department
The university is comprised of three colleges, two schools and a host of departments. Generally speaking, colleges, schools and departments are the administrative units responsible for the fiscal and academic concerns of the university. The chancellor is the chief executive officer of the university, the provost is the head of academic affairs, academic deans are the administrative heads of their respective colleges and department chairs/directors are the administrative heads of their respective areas.

Corequisite
A course that must be taken at the same time as another course.

Credit Hour
A credit hour represents once hour of classroom or direct faculty instruction and a minimum of two hours of out of class student work each week in an academic semester or an equivalent amount of work for other academic activities as established by the university including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

Credit Load
The number of credits a student carries during a semester.

Dean
A university administrator, usually a member of the faculty, who serves as the administrative head of a college.

Degree Program
A planned and approved program of study leading to a bachelor’s degree.

Elective
A course chosen by the student but not considered as part of the explicit requirements of the student's coursework. Students may choose electives in their major as well as in general education courses.

Emphasis
A designated group of courses within a degree program that provides students increased exposure directed toward their major area of study.

Full Time Student
An undergraduate student enrolling for at least 12 or more semester credits during the fall and spring semester. Generally speaking, students who carry less than 12 semester credits per semester may not be covered under their parents' health insurance policy. Summer session students are considered full time with six or more semester credits.

General Education (Liberal Studies Areas) Requirement
A component of a degree program which is designed to provide a broad-based education and competency, to include English, speech, mathematics, health and human performance, the humanities, the fine arts, historical perspectives, social sciences, natural sciences, ethnic/gender studies, international studies and foreign languages.

Good Standing
A student in good standing is one who has maintained an academic record that meets the established University of Wisconsin-Platteville policy. Students in good standing may continue at the university, return to the university or transfer to another institution. The grade point necessary to remain in good standing after one semester of attendance is 1.60. After the second and third semesters of attendance, a student must have a cumulative G.P.A. of 1.80 or higher.

Grade Point
The numerical value given to letter grades. At University of Wisconsin-Platteville, we are on a 4.00 plus/minus system wherein an “A” has a numeric value of 4.00, a “B” has a 3.00 value, etc.

Grade Point Average
The numeric value assigned to the earned letter grade for each class taken. The G.P.A. is determined by dividing the total grade points by the total credit hours attempted.

Grant
Financial assistance that does not have to be repaid.
Incomplete
The grade assigned when the student is temporarily unable to complete course requirements because of unusual circumstances. The student must complete all work and assignments necessary to complete the class requirements prior to the ninth week of the ensuing semester. Unless a grade of incomplete is changed to some other grade before the end of the ninth week of the ensuing semester, the incomplete is changed to an “F.”

Independent Study
A course designed by a student and an instructor which is generally taken outside the “normal” classroom setting.

Internship
Supervised work in a company or agency related to a student’s degree program and career plans. An internship is usually taken for academic credit and often for remuneration.

Matriculate
Students who have matriculated have been officially admitted to the university and are degree-seeking students.

Major
A planned program of academic study chosen as a field of specialization leading to a bachelor’s degree. This term is often used interchangeably with the degree program.

Minor
A sequence of related courses consisting of 24 or more semester hours of credit.

Pioneer Passport
The University of Wisconsin-Platteville identification card is called the Pioneer Passport. This card functions as the meal access card for dining services if a student is participating in a meal plan.

Pioneer Planner/Student Handbook
The Student Handbook contains policies, procedures and a HELP directory for services as well as a day planner and schedule. The new planner/handbook will be printed and delivered to the Textbook Center sometime in August in time for fall classes.

Practicum
Supervised work experience related to a program of study. The student generally pays tuition for this opportunity.

Prerequisite
A course or experience that must be successfully completed before enrollment in a designated course.

Probation, Academic
A condition of university attendance whereby students are permitted to remain with the understanding that they meet established academic standards within a set period of time. Failure to meet the standard generally results in dismissal from the university.

Repeat
The most recent grade is used regardless of whether it is higher or lower than the previous grade. If the repeat results in the grade of “F” and the student had previously earned a grade higher than “F,” the “F” replaces the grade in the calculation of the grade point average, and the student loses the credits since no credits are granted when a grade of “F” is earned. Grades earned in three or more attempts of a course do not replace prior grades but are included in the grade point average.

Reentry
An enrollment procedure for students who were previously enrolled at University of Wisconsin-Platteville, left for a time period, and wish to continue their studies.

Registration
The process of being advised, selecting courses appropriate to the student’s academic goals, and officially establishing a course load and schedule sanctioned by the advisor.

Reserve
When a book is on reserve, it means that the book cannot be removed from the “reserve room” or may be borrowed only for a short period of time. This process is usually done when the library has only a few copies of the book and it is required reading for a particular class.

Semester/Session
A unit of time, generally 16 weeks in duration. University of Wisconsin-Platteville has two semesters (fall and spring), and a summer session which is eight weeks in duration. Winterm is held for two weeks in January.

Special Student
A student who has not matriculated as a degree-seeking student but has chosen selected courses for the purpose of investigation.

Student Conduct Code
Chapter 14: This is the state statute that governs student academic misconduct at the university. It describes academic misconduct, provides sanctions for those who are found to have engaged in academic misconduct and describes the disciplinary process.

Chapter 17: This is the state statute that governs student conduct at the university. It specifies conduct which is prohibited, provides sanctions for those who are found to have violated the code and describes the disciplinary process.

Chapter 18: This is the state statute that governs student conduct on university grounds. It describes misconduct and provides sanctions for those who are found to have engaged in misconduct on university land.

Suspension
To be excluded from the university as a penalty for failure to meet academic or behavioral standards.

Teaching Major/Minor
A state Department of Public Instruction approved program for teacher certification for teaching at the elementary, middle or secondary school level.
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