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
Agricultural Business
Agricultural Education
Animal Science
Art – Fine Arts
Art Education
Biology
Broad Field Science Comprehensive
Business Administration
Chemistry
Civil Engineering
Computer Science
Criminal Justice
Electrical Engineering
Elementary Education
Engineering Physics
English
Environmental Engineering
Foreign Language
(German and Spanish)
Forensic Investigation
Geography
History
Individually Contracted Major
Industrial Engineering
Industrial Technology Management
International Studies
Mathematics
Mechanical Engineering
Media Studies
Microsystems and Nanotechnology
Music
Ornamental Horticulture
Philosophy
Physical Education
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 Science
Entrepreneurship
Ethnic Studies
Film and Media Studies
Food Marketing
Forensic Investigation
French
French – Secondary Education
Geography
Geographical Information Systems
German
German – Secondary Education
Health Education
History
History – Secondary Education
Imaging Media
Industrial Control Systems Technology
Interdisciplinary Studies
International Studies
Journalism
Language Arts
Latin American Studies
Mathematics
Mathematics – Middle Education
Mathematics – Secondary Education
Metals Processing Technology
Microsystems and Nanotechnology
Music
Music – Theatre
Natural Science
Occupational Safety Management
Ornamental Horticulture
Philosophy
Photography
Physical Education
Physics
Physics – Secondary Education
Plastics Processing Technology
Political Science
Production and Manufacturing Management
Public Relations
Psychology
Public Relations
Renewable Energy
Social and Environmental Justice
Social Media
Social Sciences
Sociology
Soil and Crop Science
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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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 Resolution
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, Ultsch Hall, the Art Building, Ultsch 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 565-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 full motion or compressed video to or from anywhere in the world. One facility, a permanent distance education classroom in Platteville, is the University of Wisconsin’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 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-seeking 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.

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 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.
Students who voluntarily interrupt university work while in good standing may seek re-admission for the fall 1985 semester. Students granted re-entry status who were on scholastic probation or other conditional status at the same time of last attendance at UW-Platteville retain such status as a condition of re-entry unless attendance at another recognized institution has altered the status.

Eligibility for re-admission is based upon previous work at UW-Platteville; however, to be re-admitted to the university, each student must be eligible to return to the institution last attended. Students desiring re-admission, after having been declared ineligible to continue for scholastic or other reasons, may file an appeal with the Admission and Academic Appeals Committee.

The initial appeals process is through the Admission and Academic Appeals Committee.

### 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.

### 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.

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**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. **Any students returning from the military service who have interrupted their studies to enlist and attend military training** may return without applying for readmission (contact the Office of the Registrar) if the period of absence does not exceed two years.

- Students granted re-entry status who were on scholastic probation or other conditional status at the same time of last attendance at UW-Platteville retain such status as a condition of re-entry unless attendance at another recognized institution has altered the status.

- Eligibility for re-admission is based upon previous work at UW-Platteville; however, to be re-admitted to the university, each student must be eligible to return to the institution last attended. Students desiring re-admission, after having been declared ineligible to continue for scholastic or other reasons, may file an appeal with the Admission and Academic Appeals Committee.

- The initial appeals process is through the Admission and Academic Appeals Committee.

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**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.
**High School Youth Options**
The UW-Platteville admission application for High School Youth 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 high school Department of Public Instruction form and official high school transcript.

**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.

**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.

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**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 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 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 mailed 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 may be taken in transfer 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. It is a good idea for students to 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 preceding the first week of classes each semester. Details will be sent to students. Students admitted after advance registration may register on an individual basis. Call the Office of Admission and Enrollment Services for 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.
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 and Credit (Revised: January 1, 2007)

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<td>World History</td>
<td>3,4,5</td>
<td>6</td>
<td>HISTORY 1010</td>
<td>World Civilization I</td>
<td></td>
</tr>
<tr>
<td>World History</td>
<td>3,4,5</td>
<td>6</td>
<td>HISTORY 1020</td>
<td>World Civilization II</td>
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<tr>
<td><strong>MATHEMATICS</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3</td>
<td>3</td>
<td>MATH 2630</td>
<td>Calculus w/ Applications</td>
<td></td>
</tr>
<tr>
<td>Calculus AB</td>
<td>4,5</td>
<td>4</td>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
<tr>
<td>Calculus BC</td>
<td>0,1,2</td>
<td>3</td>
<td>MATH 2630</td>
<td>Calculus w/ Applications</td>
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</tr>
<tr>
<td>Calculus BC</td>
<td>0,1,2</td>
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<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
<tr>
<td>Calculus BC</td>
<td>3</td>
<td>4</td>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
<tr>
<td>Calculus BC</td>
<td>4,5</td>
<td>8</td>
<td>MATH 2640</td>
<td>Calc and Analytic Geom I</td>
<td>Must have earned a score of 3 on Calc AB subtest</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>4,5</td>
<td>8</td>
<td>MATH 2740</td>
<td>Calc and Analytic Geom II</td>
<td>Must have earned a score of 4 or 5 on Calc AB subtest</td>
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<tr>
<td>Statistics</td>
<td>3,4,5</td>
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<td>MATH 1830</td>
<td>Elementary Statistics</td>
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<tr>
<td>AP Examination</td>
<td>Score</td>
<td>Credit</td>
<td>Course No.</td>
<td>Course Name</td>
<td>Comments</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------</td>
<td>--------</td>
<td>--------------</td>
<td>-------------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>MUSIC</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Music Theory</td>
<td>3,4,5</td>
<td>3</td>
<td>MUSIC 1730</td>
<td>Theory and Musicianship with Computers</td>
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<tr>
<td>Music Listening and Literature</td>
<td>3,4,5</td>
<td>3</td>
<td>MUSIC 2030</td>
<td>Intro to Music History and Literature</td>
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<tr>
<td>PHYSICS</td>
<td></td>
<td></td>
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<td>Physics B</td>
<td>3,4,5</td>
<td>10</td>
<td>PHYSICS 1350</td>
<td>Introductory Physics</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PHYSICS 1450</td>
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<td></td>
</tr>
<tr>
<td>Physics C: Mechanics</td>
<td>3,4,5</td>
<td>4</td>
<td>PHYSICS 2240</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>Physics C: Electricity and Magnetism</td>
<td>3,4,5</td>
<td>4</td>
<td>PHYSICS 2340</td>
<td>General Physics II</td>
<td></td>
</tr>
<tr>
<td>POLITICAL SCIENCE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Government and Politics</td>
<td>3,4,5</td>
<td>3</td>
<td>POLISCI 1230</td>
<td>Intro to American Government</td>
<td></td>
</tr>
<tr>
<td>Comparative Government and Politics</td>
<td>3,4,5</td>
<td>3</td>
<td>POLISCI 2430</td>
<td>Comparative Politics</td>
<td></td>
</tr>
<tr>
<td>PSYCHOLOGY</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Psychology</td>
<td>3,4,5</td>
<td>3</td>
<td>PSYCHLGY 1130</td>
<td>General Psychology</td>
<td></td>
</tr>
</tbody>
</table>
### 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 ACES office 608.342.1033.

<table>
<thead>
<tr>
<th>Category</th>
<th>ACE</th>
<th>Credits</th>
<th>Course No.</th>
<th>Course Name</th>
<th>Comments</th>
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<tbody>
<tr>
<td><strong>COMPOSITION AND LITERATURE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Literature</td>
<td>50</td>
<td>6</td>
<td>ENGLISH 2430 ENGLISH 2530</td>
<td>American Lit through the Civil War</td>
<td>American Literature since the Civil War</td>
</tr>
<tr>
<td>Analyzing and Interpreting Literature</td>
<td>50</td>
<td>6</td>
<td>ENGLISH 1330 ENGLISH 3990</td>
<td>Intro to Literature</td>
<td>Special Topics: Literature</td>
</tr>
<tr>
<td>College Composition</td>
<td>50</td>
<td>6</td>
<td>ENGLISH 1130 ENGLISH 1230</td>
<td>Freshman Composition I</td>
<td>Freshman Composition II</td>
</tr>
<tr>
<td>English Literature</td>
<td>50</td>
<td>6</td>
<td>ENGLISH 2130 ENGLISH 2230</td>
<td>English Lit: Beg thru Commonwealth</td>
<td>English Lit: Rest thru Romantic Age</td>
</tr>
<tr>
<td>Humanities</td>
<td>50</td>
<td>6</td>
<td>ENGLISH 1330 ENGLISH 3990</td>
<td>Intro to Literature, Special Topics: Writing or Literature</td>
<td>General exam: Must be taken prior to earning 15 credits</td>
</tr>
<tr>
<td><strong>FOREIGN LANGUAGES</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>French-College Level 1</td>
<td>50</td>
<td>4</td>
<td>FRENCH 1040</td>
<td>Elementary French I</td>
<td></td>
</tr>
<tr>
<td>French-College Level 2</td>
<td>59</td>
<td>12</td>
<td>FRENCH 1140 FRENCH 2040 FRENCH 2140</td>
<td>Intermediate French I</td>
<td>Intermediate French II</td>
</tr>
<tr>
<td>German-College Level 1</td>
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<td>4</td>
<td>GERMAN 1240</td>
<td>Elementary German I</td>
<td></td>
</tr>
<tr>
<td>German-College Level 2</td>
<td>60</td>
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<td>GERMAN 1340 GERMAN 2240 GERMAN 2340</td>
<td>Intermediate German I</td>
<td>Intermediate German II</td>
</tr>
<tr>
<td>Spanish-College Level 1</td>
<td>50</td>
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<td>SPANISH 1840</td>
<td>Elementary Spanish I</td>
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</tr>
<tr>
<td>Spanish-College Level 2</td>
<td>63</td>
<td>12</td>
<td>SPANISH 1940 SPANISH 2840 SPANISH 2940</td>
<td>Intermediate Spanish I</td>
<td>Intermediate Spanish II</td>
</tr>
<tr>
<td><strong>SOCIAL SCIENCE AND HISTORY</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Government</td>
<td>50</td>
<td>3</td>
<td>POLISCI 1230</td>
<td>Introduction to American Government</td>
<td></td>
</tr>
<tr>
<td>Hist of U.S. I: Early Colonizations to 1877</td>
<td>50</td>
<td>3</td>
<td>HISTORY 1330</td>
<td>History of U.S., 1492-1877</td>
<td></td>
</tr>
<tr>
<td>Hist of U.S. II: 1865 to the Present</td>
<td>50</td>
<td>3</td>
<td>HISTORY 1430</td>
<td>History of U.S., 1865 to Present</td>
<td></td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>50</td>
<td>3</td>
<td>TEACHING 2130</td>
<td>Human Growth and Development</td>
<td></td>
</tr>
<tr>
<td>Macroeconomics, Principles of</td>
<td>50</td>
<td>3</td>
<td>ECONOMIC 2130</td>
<td>Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>Microeconomics, Principles of</td>
<td>50</td>
<td>3</td>
<td>ECONOMIC 2230</td>
<td>Principles of Microeconomics</td>
<td></td>
</tr>
<tr>
<td>Psychology, Introductory</td>
<td>50</td>
<td>3</td>
<td>PSYCHLGY 1130</td>
<td>General Psychology</td>
<td></td>
</tr>
<tr>
<td>Sociology, Introductory</td>
<td>50</td>
<td>3</td>
<td>SOCIOLOGY 1030</td>
<td>Principles of Sociology</td>
<td></td>
</tr>
<tr>
<td>Western Civ I: Ancient Near East to 1648</td>
<td>50</td>
<td>3</td>
<td>HISTORY 1010</td>
<td>World Civilization I</td>
<td></td>
</tr>
<tr>
<td>Western Civ II: 1648 to Present</td>
<td>50</td>
<td>3</td>
<td>HISTORY 1020</td>
<td>World Civilization II</td>
<td></td>
</tr>
</tbody>
</table>
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 an 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 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 Veterans Affairs coordinator in the Registrar’s Office.

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-Platteville are offered a slower-paced summer registration.

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 Cashiers Office at 608-342-1211.

Payment Policy
UW-Platteville bills all students for each semester approximately two weeks prior to the beginning of the semester. Financial aid, scholarships and educational loans will not be reflected on the initial bill. The initial payment is due 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.) In order to qualify for the partial payment plan, a copy of the Terms and Conditions form must be on file in the Cashier’s Office. A new Terms and Conditions form is required for each semester. 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 33 1/3 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 1/3 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 taxpayers. 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 33 1/3 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 charges are not paid by the end of the regular summer session or the first day of winterim classes.

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 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 is:

- 100 percent during the first two weeks of classes
- 50 percent during the third and fourth weeks of classes
- 0 percent thereafter

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 re-calculated 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 week of classes, a notation of withdrawn will appear on the student’s grade list and hence on the student’s transcript.
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>Excellent</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>Good</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>Fair</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></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></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 within six months (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:

<table>
<thead>
<tr>
<th>Honors</th>
<th>Grade Point Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chancellor's Honors</td>
<td>4.00</td>
</tr>
<tr>
<td>Dean's Honors, by college:</td>
<td></td>
</tr>
<tr>
<td>Business, Industry, Life Science and Agriculture</td>
<td>3.50</td>
</tr>
<tr>
<td>Engineering, Mathematics and Science</td>
<td>3.50</td>
</tr>
<tr>
<td>Liberal Arts and Education</td>
<td>3.75</td>
</tr>
</tbody>
</table>

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 re-calculated. 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
An official transcript of a student's educational record may be obtained by submitting a signed request to the Office of the Registrar. Transcript fees (under review at time of catalog publication and subject to change) are:

- Normal service (1-2 business days): $7.00 per transcript
- Same day/rush service: $10.00 per transcript
- Faxed service: $15.00 per fax number

Fax service includes rush processing of an unofficial transcript delivered to a designated fax number and an official copy of the facsimile sent in the mail. Official transcripts may not be faxed.

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.
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 who previously have been in good standing (no probations) with the university who are enrolled in a total of six or fewer credits at the beginning of a semester and who obtain a semester G.P.A. of less than 1.0 will not be dismissed from the university, but will be placed on academic probation.

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 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 2.0 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
The Registrar’s Office will produce a final evaluation of a student's credits when the Intent to Graduate card is submitted. This evaluation will formally review all credits taken, transferred or substituted/waived and detail which coursework remains or has not yet been taken. From this evaluation, students will recognize which credits or courses are to be completed in their last term of attendance. Cautious advising is very important during the senior year. Students who still have degree requirements that are not completed within 60 days following the end of the semester they intend to graduate will be removed from the graduation list. A new Intent to Graduate card must be filed for a future semester.

VETERAN’S RESOURCES

Veteran’s Benefits
The veteran’s certifying official is located in the Office of the Registrar in Room 101 of Brigham 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) 342-1321 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/registrar/veterans.html.

For assistance regarding benefit eligibility or to learn about other benefits, veteran’s should contact Grant County.

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.

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. 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
- Teach Grant (education majors only)
- Wisconsin Higher Education 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)*

*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.

* FAFSA is not required
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.

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 to the financial aid office, 204 Brigham Hall, 1 University Plaza, Platteville, WI 53818 or email to finaid@uwplatt.edu.

Appeals must 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. 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:

- 100 percent first week of classes
- 100 percent second week of classes
- 50 percent third week of classes
- 50 percent fourth week of classes

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 prorate basis.

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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.

GENERAL EDUCATION REQUIREMENTS AND APPROVED COURSE LISTINGS

UW-Platteville’s educational philosophy is rooted in four ideas: first, that students are capable of and responsible for making choices; second, that the quality of choice is largely dependent upon the nature and extent of their experience; third, that experience becomes more meaningful and constructive when it is informed by knowledge; and fourth, that while students need certain kinds of knowledge to practice their professions, they need other kinds of knowledge to become well-rounded and fulfilled.

The development of these latter kinds of knowledge is the essential purpose of a liberal arts education. Such an education empowers people to live thoughtful lives, frees them from ignorance and awakens them to a universe much larger than their immediate environment and about a public realm that reaches far beyond their professional circle, local community or nation. More specifically, this central part of education promotes the ability to think and communicate coherently, critically and creatively about:

• the thoughts and actions of people from one’s own culture, as well as from different cultures
• the processes of nature, both animate and inanimate
• the interrelations among people and between nature and humankind
• the possibilities for each person to enhance or detract from the goodness and beauty of life

This philosophy of education is compatible with the opening statement of the Select Mission in which UW-Platteville pledges itself to: 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.

What follows describes the university’s plan for meeting this mission. It contains statements of UW-Platteville’s general education standards and requirements, together with a complete listing of the courses that students can take. Note that, in addition to these requirements, major programs may require additional courses from the list of general education courses.
Competencies
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 College Level Examination Program or 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
Students should be able to write and read effectively. A course meeting competency requirements in English composition is designed to enable students to:

- understand written language, including various stylistic devices
- recognize the importance context has for meaning
- conceptualize a topic in order to establish a purpose for writing, while keeping in mind the intended reader
- arrange ideas logically and present them coherently
- create content that reflects the analysis and synthesis of ideas
- shape their writing imaginatively

Foreign Language
Students should be able to use a language other than English. A course meeting competency requirements in a foreign language is designed to enable students to:

- obtain basic skills in speaking, writing, listening and reading in a language other than English
- obtain cultural knowledge related to that language

Mathematics
Students should have a basic competency in computational skills and quantitative perception. A course meeting competency requirements in mathematics is designed to enable students to:

- develop problem solving skills using the methods of mathematics
- use the recognition of patterns to solve problems
- work with fundamental notions of number and space
- distinguish between valid and invalid reasoning
- remain alert to the plausibility of solutions

Speech
Students should be able to understand spoken English and communicate using it effectively. A course meeting competency requirements in speaking and listening is designed to enable students to:

- understand the processes of human communication
- access and organize information logically
- design and deliver speeches effectively
- develop critical listening and reasoning skills

Wellness and Physical Activity
Students should learn how to achieve and maintain both their physical and mental well-being. A course meeting competency requirements in wellness is designed to enable students to:

- assess their own overall fitness level
- understand what lifestyle changes are required to improve overall fitness

A course meeting competency requirements in physical activity is designed to enable students to:

- develop an appreciation for, and basic skills in, an activity which if pursued will promote a lifetime of fitness and enjoyment

Liberal Arts Areas
Providing our students with a well-rounded, liberal arts education and fostering a passion for lifelong learning are at the core of UWPlatteville’s general education program.

Among other things, an educated person:

- is sensitive to the social realities and moral challenges of our time
- knows what it means to be human and what the human condition is
- understands his or her culture in a global context
- comprehends the forces and influences of the past – the judgments, visions and actions of those who have gone before us and have helped shape the present
- understands human behavior and social existence
- is able to think creatively and understand experience in imaginative ways
- understands the character, structure and dynamics of the universe in which we live

Accordingly, the liberal arts areas (ethnic studies, fine arts, gender studies, historical perspective, humanities, international education, natural sciences and social sciences) challenge students to explore the diverse range of disciplines necessary for acquiring the qualities of an educated person. Each area plays a significant role in enabling intelligence to mature and promotes the development of clear, coherent, critical and creative thinking.

All liberal arts courses should include:

- the use of writing to learn course material
- a challenge to critical thinking
- the gathering and analysis of information
- consideration of ethnic, gender and international issues when germane
- a variety of ways of evaluating student learning, so that such evaluation does not rely alone on objective tests

Furthermore, they must:

- meet the goals and student learning outcomes identified below that are specific to their area

Except for courses that count for international education, ethnic studies and gender studies, a course may not fulfill more than one liberal arts requirement.

No more than six credits from a discipline may be counted towards fulfilling these requirements.
Ethnic Studies
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. Through their study of ethnic studies, students will:

- explore the history, culture, customs, values, lifestyles and contributions of populations of color in the United States
- investigate the social and political structures that support racism
- recognize the influence that students’ own culture and experiences have on their attitudes towards people of color
- understand multiple viewpoints regarding ethics and justice
- examine the scholarship that depicts, analyzes and articulates opposition to racism

Fine Arts
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. Through their study of the fine arts, students will:

- demonstrate knowledge of the history and heritage of the fine arts
- develop a greater appreciation for the fine arts and their value and relevance in our daily lives
- demonstrate consideration of a variety of artistic patterns in thought and expression

Gender Studies
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. A course that meets liberal arts requirements in gender studies will enable students to engage in personal reflection and explore implications of:

- the cultural constructs that create and perpetuate gender-based stereotypes and unequal power relationships
- the contributions of diverse populations of women and persons of varied sexual orientations in transforming knowledge
- the influence that students’ gender and experiences have on their attitudes toward others

Historical Perspective
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. A course meeting liberal arts requirements in historical perspective is designed to enable students to:

- demonstrate knowledge of the past
- explore the multitude of circumstances and events that have helped to shape historical judgments, actions and visions
- interpret the sources of historical change in a variety of contexts

Humanities
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. Through their study of humanities, students will:

- understand some of the diverse approaches to questions of human meaning and value
- demonstrate competence in critical thinking, reading and writing
- acquire tools for lifelong learning in the humanities

International Education
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. A course meeting liberal arts requirements in international education is designed to enable students to:

- investigate the patterns of world interactions
- examine contemporary ideologies, cultures, places or political and economic systems found throughout the world
- become open to the challenges and ambiguities of human plurality

Natural Sciences
The purpose of studying the natural sciences is to help students understand nature and how the processes of scientific investigation lead to new discoveries. A course meeting liberal arts requirements in natural sciences is designed to enable students to:

- discover the patterns, principles and dynamics of natural phenomena and relate them to issues in their lives as citizens
- comprehend scientific methodology and its limitations
- engage in the analysis of natural phenomena

Social Sciences
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. Through their study of the social sciences, students will:

- demonstrate knowledge of individual and social behavior
- display knowledge of the problems and issues within social sciences
- demonstrate knowledge of the methods used to study these problems and issues
General Education Credit Requirements

- Total credits for graduation: 120 credits
- General education requirements: 43-58 credits*

* 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.

To simplify the listing of approved general education courses which follows, the competency and liberal arts areas discussed previously will be condensed into the following areas: A, B, C, D and E, where A refers to competency requirements and B, C, D and E to liberal arts requirements.

A. Competency Requirements (13 credits)

<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 credits</td>
</tr>
<tr>
<td>English 1230</td>
<td>Freshman Composition</td>
<td>3 credits</td>
</tr>
<tr>
<td>Speech 1010, 1250, 2010, 2250 or 3250</td>
<td>2 credits</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1630 or above**</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Wellness (PHYSED) 1000, (WOMSTD) 2430</td>
<td>1 credit</td>
<td></td>
</tr>
<tr>
<td>Physical activity (PHYSED) 1020 to 1640, (MUSIC) 1820</td>
<td>1 credit</td>
<td></td>
</tr>
<tr>
<td>Foreign language***</td>
<td>0-8 credits</td>
<td></td>
</tr>
</tbody>
</table>

B. Humanities (HUM), Fine Arts (FA), and Historical Perspective (HP) (12 credits)

Courses must be from areas of humanities, fine arts and historical perspective.

C. Social Sciences (SS) (9 credits)

Courses must be from areas of agriculture, communication, criminal justice, economics, energy, ethnic studies, geography, political science, psychology, sociology, speech and women’s studies.

D. Natural Sciences (NS) (9 credits)

Courses must be from areas of Agsci, geography, geology, biology, chemistry, physics and physical science. All courses must involve a laboratory experience.

E. International Education (IE)/Ethnic (E) and Gender (G) Studies (EGS) (6-9 credits)****

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>International education****</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Ethnic and gender studies****</td>
<td>3 or 6 credits</td>
<td></td>
</tr>
</tbody>
</table>

Approved Course Listings

A. Competency Requirements

Competencies (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 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>1230 Freshman Composition</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

* Students with high UW System English Placement Test scores will be invited to take the test-out for English 1130.
** Varies depending upon UW System Mathematics Placement Test score.
*** Two years of the same high school language with a minimum of “C” average the second year (two semesters) fulfills this requirement.
**** Courses selected for area E only may double count for credit in areas B, C and D.
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>FRENCH 1040</td>
<td>Elementary French</td>
<td>4 credits</td>
</tr>
<tr>
<td>FRENCH 1140</td>
<td>Elementary French</td>
<td>4 credits</td>
</tr>
<tr>
<td>GERMAN 1240</td>
<td>Elementary German</td>
<td>4 credits</td>
</tr>
<tr>
<td>GERMAN 1340</td>
<td>Elementary German</td>
<td>4 credits</td>
</tr>
<tr>
<td>SPANISH 1840</td>
<td>Elementary Spanish</td>
<td>4 credits</td>
</tr>
<tr>
<td>SPANISH 1940</td>
<td>Elementary Spanish</td>
<td>4 credits</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 1010</td>
<td>Public Speaking</td>
<td>2 credits</td>
</tr>
<tr>
<td>SPEECH 1250</td>
<td>Professional Speaking</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH 2010</td>
<td>Speech Communication</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH 2250</td>
<td>Communication/Leadership</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH 3250</td>
<td>Interpersonal Communication</td>
<td>3 credits</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 should take. The minimum required number of mathematics credits for all degree programs is three credits, at or above MATH 1630. However, a student may be required to take lower level or preparatory/remedial mathematics courses to meet the prerequisite 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>
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<td>MATH 1730</td>
<td>Mathematics of Finance</td>
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<td>MATH 1830</td>
<td>Elementary Statistics</td>
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<td>MATH 1930</td>
<td>Mathematical Explorations</td>
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<td>MATH 2030</td>
<td>Mathematics for Educators II</td>
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<td>MATH 2450</td>
<td>Precalculus</td>
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<td>MATH 2530</td>
<td>Trigonometry and Analytic Geometry</td>
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<td>Calculus with Applications</td>
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<td>Calculus and Analytic Geometry</td>
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Wellness (1 credit)
Students must choose one of the following:

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<td>Women and Health (G)</td>
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Physical Activity (1 credit)
Students must choose one of the following:

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<td>MUSIC 1820</td>
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<tr>
<td>PHYSED 1020</td>
<td>Criminal Justice Fitness</td>
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<tr>
<td>PHYSED 1040</td>
<td>Canoe, Kayak and/or Rafting</td>
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<tr>
<td>PHYSED 1100</td>
<td>Seasonal Activities</td>
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<tr>
<td>PHYSED 1110</td>
<td>Weight Training</td>
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<td>PHYSED 1120</td>
<td>Aerobic Weight Training</td>
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<td>PHYSED 1130</td>
<td>Badminton</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1140</td>
<td>Basketball</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1150</td>
<td>Cycling</td>
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<tr>
<td>PHYSED 1190</td>
<td>Golf</td>
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<tr>
<td>PHYSED 1200</td>
<td>Self Defense</td>
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<tr>
<td>PHYSED 1210</td>
<td>Golf</td>
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<tr>
<td>PHYSED 1220</td>
<td>Hydroaerobics</td>
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</tr>
<tr>
<td>PHYSED 1230</td>
<td>Jogging/Walking</td>
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<td>PHYSED 1240</td>
<td>Racquetball</td>
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<td>PHYSED 1250</td>
<td>Relaxation</td>
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<td>PHYSED 1280</td>
<td>Personal Conditioning</td>
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<tr>
<td>PHYSED 1290</td>
<td>Racquetball/Badminton</td>
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<td>PHYSED 1300</td>
<td>Personal Fitness</td>
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<td>PHYSED 1310</td>
<td>Scuba Diving</td>
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<td>Dance Tech/Practice</td>
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<td>PHYSED 1380</td>
<td>Triathlon Training</td>
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<td>PHYSED 1390</td>
<td>Racquet Sports</td>
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<td>PHYSED 1400</td>
<td>Fitness/Activity</td>
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<td>PHYSED 1410</td>
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<td>Tennis</td>
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<td>PHYSED 1440</td>
<td>Volleyball</td>
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<td>PHYSED 1450</td>
<td>Wallyball/Volleyball</td>
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<td>PHYSED 1460</td>
<td>Yoga/Pilates</td>
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<tr>
<td>PHYSED 1530</td>
<td>Bowling</td>
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<tr>
<td>PHYSED 1640</td>
<td>Downhill Skiing</td>
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B. Liberal Arts Requirements

Humanities (HUM), Fine Arts (FA) and Historical Perspective (HP) (12 credits)
The humanities, fine arts and historical perspective requirements are met by taking at least three credits in approved courses in each of the three areas below (humanities, fine arts and historical perspective). The remaining three credits must be a second course in the same specific discipline chosen for either the humanities, fine arts or historical perspective. Exception: Those courses designated as second course only need not be from the same discipline in order to fulfill this requirement.
### Humanities (HUM) (3 credits)

All courses listed below under the area of humanities that are NOT designated as second course only may be used as a first or second humanities course.

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<tr>
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<td>ENGLISH 2100</td>
<td>Thematic Studies in Literature</td>
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<td>ENGLISH 2130</td>
<td>British Literature I: Beginnings through the Age of Swift</td>
<td>3</td>
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<tr>
<td>ENGLISH 2150</td>
<td>Introduction to Gay Studies</td>
<td>3 (G, IE, HUM second course only)</td>
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<tr>
<td>ENGLISH 2210</td>
<td>Introduction to Linguistics</td>
<td>3</td>
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<tr>
<td>ENGLISH 2250</td>
<td>Introduction to Film</td>
<td>3 (HUM second course only)</td>
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<td>ENGLISH 2330</td>
<td>British Literature II: Romanticism through the Present</td>
<td>3</td>
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<tr>
<td>ENGLISH 2430</td>
<td>American Literature through the Civil War</td>
<td>3</td>
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<td>ENGLISH 2530</td>
<td>American Literature since the Civil War</td>
<td>3</td>
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<td>ENGLISH 2650</td>
<td>World Literature II (IE)</td>
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<td>ENGLISH 2770</td>
<td>International Cinema (IE)</td>
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<tr>
<td>ENGLISH 2780</td>
<td>Race and Gender in American Film (EGS)</td>
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<td>ENGLISH 2830</td>
<td>Survey Women Writers (G)</td>
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<td>Minority Women Writers of the U.S. (EGS)</td>
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<tr>
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<td>Introduction to Contemporary Literacy and Theory and Criticism (G, HUM second course only)</td>
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<tr>
<td>ENGLISH 3110</td>
<td>Gay and Lesbian Literature for Young Adolescents</td>
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<td>ENGLISH 3130</td>
<td>English Novel through Romantic Movement</td>
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<td>ENGLISH 3230</td>
<td>English Novel and Short Story since Romantic Movement</td>
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<td>ENGLISH 3260</td>
<td>Language and Culture (IE)</td>
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<td>ENGLISH 3280</td>
<td>Gay and Lesbian Literature (G)</td>
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<td>ENGLISH 3330</td>
<td>English Drama</td>
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<td>Development of the American Novel</td>
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<td>Black Literature in America (E)</td>
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<td>American Literature of Ethnicity and Immigration (E)</td>
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<td>Wisconsin Indian Literature (E)</td>
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<td>Modern Short Story</td>
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<td>Major English Writers</td>
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<td>Medieval Lyric Poetry</td>
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<td>English, Renaissance Poetry and Prose</td>
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<td>Women and Myth: Goddess, Witch, Sibyl (G, IE)</td>
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<td>The Native American Experience (E)</td>
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<td>Survey French Lit/Culture I</td>
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<td>Origins of Western Philosophy (HUM or HP second course only)</td>
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<td>Philosophy in the Modern World (HUM or HP second course only)</td>
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<td>Business Ethics</td>
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<td>Introduction to the Hebrew Scriptures (HUM or HP second course only)</td>
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<td>Introduction to the New Testament</td>
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<td>Major Traditions in Eastern Religions (IE)</td>
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<td>Special Topics in Philosophy</td>
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<td>PHILSPHY 3230</td>
<td>Philosophy of Religion</td>
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<td>PHILSPHY 3330</td>
<td>Ontology and Ethics</td>
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<td>Philosophy's Feminist Future (G)</td>
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<td>PHILSPHY 3630</td>
<td>Philosophy of Law</td>
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<td>Introduction to Gay Studies (G, IE, HUM second course only)</td>
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<td>Survey Women Writers (G)</td>
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<td>WOMGENDER</td>
<td>Minority Women Writers</td>
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<td>WOMGENDER</td>
<td>Philosophy’s Feminist Future (G)</td>
<td>3 credits</td>
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<td>WOMGENDER</td>
<td>Women and Mythology: Goddess, Witch, Sibyl (G, IE)</td>
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<td>History and Literature of Western Music II</td>
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<td>World Music Survey</td>
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<td>American Music</td>
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<td>History of American Musical Theatre</td>
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<td>History of Rock and Roll</td>
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<td>History and Literature of Western Music III</td>
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<td>Recent Contemporary Drama</td>
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<td>History of Theatre and Drama</td>
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<tr>
<td>WOMGENDER</td>
<td>Women and the Arts (G)</td>
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**Historical Perspective (HP) (3 credits)**

All courses listed below under the area of historical perspective that are NOT designated as second course only may be used as a first or second historical perspective course.

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<td>Econ. History of U.S.: 1st 300 years</td>
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<td>Race, Gender, and U.S. Labor History (E)</td>
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<td>ETHNSTDY</td>
<td>African-American History: 1619 to Present (E)</td>
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<tr>
<td>HISTORY</td>
<td>World Civilization I</td>
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<td>World Civilization II (IE)</td>
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<td>History of the U.S. 1492-1877</td>
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<td>History of the U.S. since 1877</td>
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<td>HISTORY</td>
<td>Latin American History (IE)</td>
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<td>HISTORY</td>
<td>American Colonial History</td>
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<td>Gilded Age and Progressive Era</td>
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<td>HISTORY</td>
<td>U.S. Legal History of Race and Gender</td>
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<td>HISTORY</td>
<td>West in American History</td>
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<tr>
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<td>HISTORY</td>
<td>History of Wisconsin</td>
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<tr>
<td>HISTORY</td>
<td>The Vietnam War</td>
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<td>The United States, 1898-1945</td>
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<td>History of U.S. Foreign Relations</td>
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<td>HISTORY</td>
<td>History of Modern Africa</td>
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<tr>
<td>HISTORY</td>
<td>The United States Since 1945</td>
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<tr>
<td>HISTORY</td>
<td>American Women’s History (G)</td>
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<tr>
<td>HISTORY</td>
<td>British Isles to 1714</td>
<td>3 credits</td>
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<tr>
<td>HISTORY</td>
<td>British Isles since 1714</td>
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<tr>
<td>HISTORY</td>
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**Fine Arts (FA) (3 credits)**

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<td>ART</td>
<td>Art and Social Studies for Teachers</td>
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<td>ART</td>
<td>Art History I: Ancient Medieval</td>
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<td>ART</td>
<td>Art History II: Renaissance-1879</td>
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<tr>
<td>ART</td>
<td>Art History VI: History of American Art</td>
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<tr>
<td>ART</td>
<td>Art Survey</td>
<td>3 credits</td>
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<td>ART</td>
<td>Art History IV: Ethnic Art in U.S. (E)</td>
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<tr>
<td>ART</td>
<td>Native American Art (E)</td>
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<tr>
<td>ART</td>
<td>Art History VII: Introduction to World Architecture</td>
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<td>ART</td>
<td>Art History III: Modern</td>
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<td>ART</td>
<td>Art History V: Far Eastern Art (IE)</td>
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<td>Theory of Art</td>
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<td>ART</td>
<td>Drawing VI Advanced Drawing</td>
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<td>MUSIC</td>
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<td>Modern Latin American History (IE)</td>
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<tr>
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<td>HISTORY 3710</td>
<td>Ancient Civilizations</td>
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<td>Medieval Europe</td>
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<td>HISTORY 3740</td>
<td>Renaissance and the Reformation</td>
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<td>HISTORY 3810</td>
<td>Early Modern Europe</td>
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<td>HISTORY 3830</td>
<td>French Revolution and Napoleon 1789-1815</td>
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<td>HISTORY 3850</td>
<td>Twentieth Century Europe</td>
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<td>HISTORY 3860</td>
<td>History of Western Science</td>
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<td>HISTORY 3870</td>
<td>Nazi Germany and the Holocaust</td>
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<td>HISTORY 3880</td>
<td>Modern Europe Thought and Culture</td>
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<td>Modern Middle East (IE)</td>
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<td>HISTORY 3930</td>
<td>East Asia (IE)</td>
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<td>HISTORY 3950</td>
<td>Modern Japan (IE)</td>
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<td>HISTORY 3970</td>
<td>Modern China (IE)</td>
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<td>HISTORY 4110</td>
<td>Russia under the Romanovs (IE)</td>
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<td>HISTORY 4120</td>
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<td>Origins of Western Philosophy (HUM or HP second course only)</td>
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<td>PHLSPHY 2430</td>
<td>Philosophy in the Modern World (HUM or HP second course only)</td>
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<td>PHLSPHY 2730</td>
<td>Introduction to the Hebrew Scriptures (HUM or HP second course only)</td>
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<td>Modern Japan (IE)</td>
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<td>POLISCI 3350</td>
<td>Modern China (IE)</td>
<td>3 credits</td>
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<td>POLISCI 3610</td>
<td>British Isles to 1714</td>
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<td>British Isles since 1714</td>
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<td>POLISCI 3750</td>
<td>International Human Rights (IE)</td>
<td>3 credits</td>
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<tr>
<td>POLISCI 4120</td>
<td>Modern Russia (IE)</td>
<td>3 credits</td>
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<tr>
<td>WOMGENDER 3520</td>
<td>American Women’s History (G)</td>
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<td>Women and Gender in Latin American History (IE) (G)</td>
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<tr>
<td>WOMGENDER 3700</td>
<td>Women in European Civilization (G)</td>
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</table>

**Second Course (3 credits)**

To complete the final three credits in humanities, fine arts and historical perspective, a student must select either a second course in the same specific discipline or a class designated as second course only. Prerequisite requirements must be met for any course taken to fulfill this area.

**C. Social Sciences (SS) (9 credits)**

At least three credits must be taken in approved courses in each of two disciplines listed below (agricultural industries, civil engineering, criminal justice, economics, energy, entrepreneurship, ethnic studies, media, geography, political science, psychology, sociology, speech and women’s and gender studies). The remaining three credits must be a second course in one of the two disciplines previously chosen.

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<tr>
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<th>Credits</th>
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<tr>
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<td>Infrastructure and Society</td>
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<tr>
<td>CRIMLJUS 1130</td>
<td>Introduction to Criminal Justice</td>
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<td>CRIMLJUS 3730</td>
<td>Women and the Law (G)</td>
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<td>ECONOMIC 2130</td>
<td>Principles of Macroeconomics</td>
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<td>Principles of Microeconomics</td>
<td>3 credits</td>
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<tr>
<td>ECONOMIC 2410</td>
<td>Interpretation of Business and Economic Data</td>
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<tr>
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<td>Political Economy, Race, Gender, and Ethnicity (EGS)</td>
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<tr>
<td>ECONOMIC 3630</td>
<td>Comparative Economic Systems (IE)</td>
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<tr>
<td>ECONOMIC 3730</td>
<td>Money and Banking</td>
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<td>ECONOMIC 3830</td>
<td>Public Finance</td>
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<td>ECONOMIC 4330</td>
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<td>ECONOMIC 4930</td>
<td>Senior Seminar</td>
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<td>Special Problems</td>
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<td>ENERGY 2130</td>
<td>Energy, Environment and Society</td>
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<td>Social Context of Creativity, Innovation and Entrepreneurship</td>
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<td>ETHNSTDY 3230</td>
<td>Human Relations (EGS)</td>
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<td>Ethnic Rights and Politics (E)</td>
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<tr>
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<td>Introduction to Human Geography (SS)</td>
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<tr>
<td>GEOGRPHY 1230</td>
<td>Survey of Cultural Geography (IE)</td>
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<td>World Regional Geography (IE)</td>
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<td>Economic Geography (IE)</td>
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<td>Geography of the U.S. and Canada</td>
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<td>GEOGRPHY 3170</td>
<td>Space, Place and Gender (G)</td>
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<td>GEOGRPHY 3330</td>
<td>Environmental Conservation</td>
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<td>GEOGRPHY 3350</td>
<td>Geography and Development</td>
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<td>GEOGRPHY 3430</td>
<td>Geography of Africa (IE)</td>
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<tr>
<td>GEOGRPHY 3530</td>
<td>Topics in Regional Geography (IE)</td>
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<td>GEOGRPHY 3630</td>
<td>Geography of Latin America (IE)</td>
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<td>Geography of Europe (IE)</td>
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<td>GEOGRPHY 3930</td>
<td>Geography of Asia (IE)</td>
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<td>Political Geography (IE)</td>
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<td>GEOGRPHY 4350</td>
<td>Gender Relations in Cross Cultural Perspectives (G)</td>
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<td>GEOGRPHY 4760</td>
<td>Geography Field Excursion</td>
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<td>Introduction to Mass Media</td>
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<td>MEDIA 3200</td>
<td>Gender and Popular Culture</td>
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<td>Theories of Media and Culture</td>
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<td>MEDIA 4450</td>
<td>Crisis Planning and Communication</td>
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<td>POLISCI 1230</td>
<td>Introduction to American Government</td>
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<td>International Relations (IE)</td>
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<td>POLISCI 1430</td>
<td>Current Issues and Democracy</td>
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<td>Introduction to Public Policy</td>
<td>3 credits</td>
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<tr>
<td>POLISCI 2430</td>
<td>Comparative Politics (IE)</td>
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The credits must be taken in approved courses in two different areas: Agsci, biology, chemistry, geography, geology, physics, and physical science. All courses must involve a laboratory experience.

### Course Title Credits
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<td>BIOLOGY</td>
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<td>General Biology</td>
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<td>BIOLOGY</td>
<td>1350</td>
<td>General Botany</td>
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<td>Anatomy and Physiology I</td>
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<td>Anatomy and Physiology II</td>
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<td>2250</td>
<td>Tropical Marine Ecosystems (IE)</td>
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<td>2340</td>
<td>Essentials of Anatomy and Physiology</td>
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<td>CHEMISTRY</td>
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<td>1140</td>
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<td>2330</td>
<td>History of Life</td>
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<td>PHYSICS</td>
<td>1050</td>
<td>Principles of Physics</td>
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<td>Introductory Physics I</td>
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<td>Introductory Astronomy</td>
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### E. International Education (IE), Ethnic Studies (E), Gender Studies (G), Ethnic and Gender Studies (EGS) (6-9 credits) International Education (IE) (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.

### Course Title Credits
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<td>World Population, Food and Resources (SS)</td>
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<td>AGINDUS</td>
<td>4600</td>
<td>Faculty-Led Short-Term International Experience</td>
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<tr>
<td>AGSCI</td>
<td>4600</td>
<td>Faculty-Led Short-Term International Experience</td>
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<td>ART</td>
<td>2200</td>
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<td>ART</td>
<td>2840</td>
<td>Art History VII: Introduction to World Architecture</td>
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<td>Tropical Marine Ecosystems (NS)</td>
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<td>BUSADMIN</td>
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<td>International Short Study</td>
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<td>2650</td>
<td>World Literature II (HUM)</td>
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<td>ENGLISH</td>
<td>2770</td>
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<td>ENGLISH</td>
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<td>Language and Culture (HUM)</td>
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<td>1050</td>
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<td>1230</td>
<td>Survey of Cultural Geography (SS)</td>
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<td>World Regional Geography (SS)</td>
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<td>GEOGRPHY</td>
<td>2250</td>
<td>Tropical Marine Ecosystems (NS)</td>
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<td>GEOGRPHY</td>
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<td>Topics in Regional Geography</td>
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<td>Geography of Latin America (SS)</td>
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<td>Geography of Europe (SS)</td>
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<td>GERMAN</td>
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<td>History of Modern Africa</td>
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<td>HISTORY</td>
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<td>Colonial Latin American History (HP)</td>
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<td>Modern Middle East (HP)</td>
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<td>4110</td>
<td>Russia to 1856 (HP)</td>
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<tr>
<td>HISTORY</td>
<td>4120</td>
<td>Modern Russia (HP)</td>
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<td>PHLSPHY</td>
<td>2230</td>
<td>Contemporary World Views (HUM)</td>
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<td>PHLSPHY</td>
<td>2930</td>
<td>Major Traditions in Eastern Religions (HUM)</td>
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<td>POLISCI</td>
<td>1330</td>
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<td>Comparative Politics (SS)</td>
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<td>Modern China (HP)</td>
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<td>Politics of the Global Economy (SS)</td>
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<td>POLISCI</td>
<td>3750</td>
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<td>International Security (SS)</td>
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<tr>
<td>SOCIOLOGY</td>
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<td>Introductory Anthropology (SS)</td>
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<td>Cultural Anthropology (SS)</td>
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<td>SPEECH</td>
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<td>BILSA Short Term International</td>
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<td>UWPSTUDY</td>
<td>3030</td>
<td>EMS Short Term International</td>
</tr>
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<td>WOMGENDER</td>
<td>2150</td>
<td>Introduction to Gay Studies</td>
</tr>
<tr>
<td>WOMGENDER</td>
<td>3650</td>
<td>Women and Gender in Latin American History (HP)</td>
</tr>
<tr>
<td>WOMGENDER</td>
<td>4500</td>
<td>Women and Myth: Goddess, Witch, Sibyl (HUM, G)</td>
</tr>
</tbody>
</table>

**Ethnic and Gender Studies Courses (EGS) (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 (EGS):**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUSADMIN 3340 Management, Gender, and Race</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 2940 Political Economy, Race, Gender, and Ethnicity (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 2780 Race and Gender in American Film (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 2930 Minority Women Writers of the U.S. (HUM)</td>
<td>3 credits</td>
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<tr>
<td>ETHNSTDY 1030 Race, Gender, and Class in the United States</td>
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<tr>
<td>ETHNSTDY 2930 Minority Women Writers of the US (HUM)</td>
<td>3 credits</td>
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<tr>
<td>ETHNSTDY 2940 Political Economy of Race, Gender, and Ethnicity (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3230 Human Relations (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3340 Management, Gender and Race</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3630 Ethnic and Gender Equity in Education</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3830 Black Women and Feminism in the U.S.</td>
<td>3 credits</td>
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</table>

40
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 2730</td>
<td>Art History IV: Ethnic Art in the U.S. (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 2750</td>
<td>Native American Art (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>CRIMLJUS 2830</td>
<td>Ethnicity, Race, and Crime</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 3410</td>
<td>Chicano Literature (HUM)</td>
<td>3 credits</td>
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<tr>
<td>ENGLISH 3730</td>
<td>Black Literature in America (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 3740</td>
<td>Asian American Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 3750</td>
<td>American Lit of Ethnicity and Immigration (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 3760</td>
<td>Wisconsin Indian Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 2130</td>
<td>The Native American Experience (HUM)</td>
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<tr>
<td>ETHNSTDY 2200</td>
<td>Introduction to Ethnic Studies</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 2230</td>
<td>Black Experience in the U.S.</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 2730</td>
<td>Art History IV: Ethnic Art in the U.S. (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 2750</td>
<td>Native American Art (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 2830</td>
<td>Ethnicity, Race, and Crime</td>
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</tr>
<tr>
<td>ETHNSTDY 3010</td>
<td>Race, Gender, and U.S. Labor History (HP)</td>
<td>3 credits</td>
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<tr>
<td>ETHNSTDY 3240</td>
<td>African-American History (HUM) to present (HP)</td>
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</tr>
<tr>
<td>ETHNSTDY 3410</td>
<td>Chicano Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3720</td>
<td>Ethnic Rights and Politics (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3730</td>
<td>Black Literature in America (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3740</td>
<td>Asian American Literature (HUM)</td>
<td>3 credits</td>
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<td>ETHNSTDY 3750</td>
<td>American Lit of Ethnicity and Immigration (HUM)</td>
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<tr>
<td>ETHNSTDY 3760</td>
<td>Wisconsin Indian Literature (HUM)</td>
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<tr>
<td>HISTORY 3010</td>
<td>Race, Gender, and U.S. Labor History (HP)</td>
<td>3 credits</td>
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<tr>
<td>HISTORY 3240</td>
<td>African-American History: 1619 to present (HP)</td>
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</tr>
<tr>
<td>POLISCI 3730</td>
<td>Ethnic Rights and Politics (SS)</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

The following courses are approved Gender Studies credit (G):
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 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 mediation 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 through a videotape prep course and the administration of practice tests
- 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 as well

We advise students interested in a career in law or in a field where a law degree is an advantage to take the following steps:

- Begin planning early
- Choose challenging courses that emphasize reading, writing and research, and build skill in analytical and critical thinking
- Consult the pre-law advisor at the earliest opportunity

We agree with the consensus of the legal profession that a broad liberal arts education which emphasizes the appreciation of human values, an awareness of socio-political thought and concern for the community and the environment are the best preparation for law school.

Pre-Medical Technology

Advisor: Esther Ofulue
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

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: 339 Gardner 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 the physicians prescribe. Nurses must pass a state examination to become registered nurses (RNs). There are two basic routes toward this end:
1. An associate degree in nursing (ADN) obtained through a two or three year program at a technical college
2. A Bachelor of Science degree in nursing (BSN) obtained through a four or five year program at a comprehensive university

The UW-Platteville program is a two-year program which helps to provide a body of information necessary to fulfill the academic requirements of a school of nursing. Admission to a school of nursing normally follows the second year of study at UW-Platteville.
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-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-Physician 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 institutions to prepare students for pharmacy school.

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

Podiatry is concerned with the prevention, diagnosis and treatment of diseases and disorders affecting the human foot and its related structures. The podiatric physician provides both medical and surgical care and may become involved in research to advance the understanding of foot care. The UW-Platteville program is designed to meet admission requirements for a school of podiatric medicine. Most students are admitted to a podiatry school after completion of a bachelor’s degree.

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 institutions to prepare students for pharmacy school.

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-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, in a partnership between UW-Platteville and UW-Extension, carries out the Wisconsin Idea of extending university resources beyond campus boundaries to the citizens of southwestern Wisconsin. Continuing Education offers credit classes designed for teachers and other professionals working to meet certification requirements. Some classes are delivered through web-based sessions to expand access for students living and working at a distance from campus. Community education/personal development (non-credit) evening classes, weekend workshops and seminars, and summer camps are also conducted by Continuing Education to enrich the lives of adults and young learners in southwestern Wisconsin. Continuing Education also provides registration and other support services for meetings and events held on- and off-campus, coordinated by other groups.

For more information, call 608.342.1314 or toll-free at 1.888.281.9472. Access course offerings electronically via www.uwplatt.edu/cont_ed.

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 needed.

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 Ullsvik 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
UW-Platteville entered a consortium agreement with Southwest Wisconsin Technical College in Fennimore, Wis., whereby technical college faculty provide instruction in English and mathematics to students who are deficient in the above subject areas.

Entering new students at UW-Platteville who do not meet the minimum requirements on the UW System English Placement Test are expected to take ENGLISH 10 Fundamentals of English. These students are required to successfully complete ENGLISH 10 before they are allowed to register for credit-bearing English courses.

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 three 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, ENGLISH 10, 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.

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.

Students sometimes find that the selection of a major does not fit their own unique interests or career plans. Instead, their needs can best be served by an individualized course sequence composed of offerings from several departments or even from more than one college within the university. To accommodate such students, the College of Liberal Arts and Education offers the individually contracted major. Students, working closely with faculty members, propose and develop a course of study that will lead to the fulfillment of their personal educational goals.

The following process sets forth the steps by which students can plan and pursue an individualized course sequence constituting the equivalent of a conventional major. At the same time, it provides a means by which the faculty can monitor students’ planning and subsequent activities to ensure that they meet the standard requirements for a degree. The process culminates in an agreement which sets forth the details of the proposed major.

**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**  
www.uwplatt.edu/oit  
The Office of Information Technology provides for the communication and computing technology needs of the university community. Eager to assist students in the use of computing technology, OIT strongly encourages each student to make use of the excellent resources available on campus. Additionally, OIT provides computer support and troubleshooting for all faculty and staff and manages and maintains the university’s web presence and the Pioneer Administrative Software System.

**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 with a variety of software for word processing, spreadsheet and database management in addition to Internet access and course-specific software. Consultants are available in the Markee Pioneer Student Center to answer questions and provide assistance.

**Discipline Specific Labs**  
Each of the three colleges and many of the academic units within each college provide computer labs with hardware and software suited to their particular disciplines. Hardware, software, scheduled availability and support are all determined by the college or department.

**Wireless Network**  
OIT manages the wireless network for the campus, providing simple access for wireless-enabled devices. All of the academic buildings on campus have wireless access capabilities. Authentication is required to be on the UW-Platteville wireless network.

**Campus Wiring Infrastructure**  
Every residence hall room and every classroom building have the wiring necessary for complete network and Internet access. ResNet, a division of Student Housing, provides support for residence hall network access.

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

**Help Desk**  
The Help Desk, 608.342.1400 or (helpdesk@uwplatt.edu), is the first point of contact for faculty, staff, and students with any computer problems, including new system installs, software and hardware purchases, computer errors and lab problems. Telephone support personnel will attempt to answer most questions over the telephone. Any issues not resolved immediately are assigned to Help Desk technicians or computer support staff who provide prompt and courteous service.

**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

**Media Technology Services**  
www.uwplatt.edu/tvservices  
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:

**Educational and Promotional Recording Services**  
MTS video and audio records a wide variety 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 can duplicate videotapes in the following formats: DVCAM, DVD, mini DV, S-VHS, Umatic/SP and VHS. 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 are available for checkout that will enable users to make audio recordings from the classroom or office.
**Videos for the Web**
Want to add a video to a D2L site or web page? MTS can help. MTS can convert almost all video formats to flash for the web or D2L. MTS can also stream longer video clips for students to view outside of class.

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**Equipment Maintenance**
A variety of maintenance services, including equipment repair, equipment recommendations and maintenance of technology enhanced classrooms, are provided by the Media Technology Services staff.

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**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 Confucius Institute was established at UW-Platteville 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.

Focus:
- 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.

Platters - Conveniently located near the residence halls, our all-you-care-to-eat dining facility is housed in Glenview Commons. Platters 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 administrating and providing outstanding facilities, programs and services which serve as the center of the campus community. These facilities, programs and services include the following:

Conference Services and Event Planning is responsible for coordinating services for camp and conference groups utilizing student housing and dining services, coordinating off-campus guest use of university facilities, assisting student organizations in the event planning process, supervising the management of the Cooper Living. The Cooper Living and Learning Center is a 40-bed retreat center located at Pioneer Farm, seven miles from the main campus.

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
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.

Event Reservations
Location: Markee Pioneer Student Center
Phone: 608.342.1451
Website: eventreservations@uwplatt.edu
Reservations manages the event facilities in the Markee Pioneer Student Center, and Ullsvik Hall Velzy Commons; and coordinates management of event facilities at the Center for the Arts and Ullsvik Hall Nohr Gallery with the Office of Arts Facilities and Series, providing services and support to those facilities as well as to ceremonies, major events and university-sponsored events held throughout campus. Event management services and equipment including audiovisual, lighting, sound reinforcement and staging are available through Production Services. For more information, or to arrange for support or find out more about equipment availability, contact Event Reservations, stop by the Auxiliary Services Administrative Office in the Markee.

Harry and Laura Nohr Gallery
Location: 0400 Ullsvik Hall
Phone: 608.342.2787
Website: 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.
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.
Assistant Vice Chancellor for Academic Affairs:
Dr. D. Joanne Wilson
Office: 2500 Ullsvik Hall
Phone: 608.342.1262
E-mail: wilsonj@uwplatt.edu

Advising and Career Exploration Services (ACES)
Director: Helen Reynolds
Location: First Floor Brigham Hall
Phone: 608.342.1033

Students who are deciding on a major, who are between majors or who may be considering changing their current major have an academic advising home on campus – the office of Advising and Career Exploration Services. Undecided, or deciding, students interested in a potential major or career field receive help in choosing classes based on their interests. ACES advisors also provide campus-wide career exploration for all students. Career planning assistance includes examining potential careers based on a student’s personality style, interests, skills, abilities and values.

ACES houses a Career Resource Center which holds a variety of materials to assist students with career exploration. ACES also offers online career exploration. Check out the website at www.uwplatt.edu/advising for links to advising and career exploration. For more information, call 608.342.1033, come by the office at First Floor Brigham Hall or e-mail advising@uwplatt.edu.

First-Year Experience Program (FYE)
Director: Amy Nemmetz
Office: 120 Brigham Hall
Phone: 608.342.1081
E-mail: nemmetza@uwplatt.edu

The First-Year Experience Program is dedicated to creating opportunities for students to develop successful academic and social skills. The FYE 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 summer bridge programming. For more information, visit us at www.uwplatt.edu/firstyear.

Karrmann Library
Director: Zora Sampson
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 http://www.uwplatt.edu/library/askalibrarian.html. Regular semester hours are 8 a.m.–12 a.m., Mon.-Thurs.; 8 a.m.–8 p.m. Fri.; 11 a.m.–8 p.m. Sat.; and 1 p.m.–12 a.m. Sun.

Help is provided using print, electronic and multi-media resources. The collections include 253,000 books, 62,000 electronic resources, 285 maps/atlases; 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, http://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/textbookctr.

The Textbook Center aids students by furnishing texts in a cost-efficient manner. This provides students a more affordable avenue of textbook acquisition than that of buying texts for each course.

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)

Director: Evelyn Martens

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. The goal is to help students become better writers by learning to more effectively read and revise their own writing. In half-hour sessions, students meet one-on-one with peer tutors to discuss any kind of writing, from freshman composition papers to upper level research papers, lab reports, cover letters and anything in between. The Writing Center also 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. It may be possible to work with someone outside of normal operating hours if a tutor is available. The Writing Center will take drop-ins but suggests students make appointments, as the center is often booked two to three days in advance.

Peer-Assisted Learning (PALS)

Location: 314 Brigham Hall
Phone: 608.342.1615

The Peer-Assisted Learning (PAL) program is an academic assistance program that provides support both inside and outside of the classroom. The PAL program selects students who have been successful in a historically challenging class to assist students currently enrolled in that identified course. The chosen students, known as Peer-Assisted Leaders (PALS), may attend class lectures, discussions, and/or labs and may also provide office hours outside of the classroom. Pals are available for free to all students enrolled in courses that are participating in the PAL program.
Office of Multicultural Student Affairs
Director: Angela Miller
Location: 133 Warner
Phone: 608.342.1555
Website: http://www.uwplatt.edu/merc/
The mission of the Office of Multicultural Student Affairs is to promote student success and enhance the engagement and leadership capacity of underrepresented minority students on campus. The Office of Multicultural Student Affairs strives to demonstrate leadership, creativity and vision in supporting the continued development of student success through academic action planning, mentorship relationships, graduation planning, access to applicable scholarships and grant opportunities, and auxiliary advising. The purpose of the Office of Multicultural Student Affairs is to assist students of color in the navigation of their undergraduate college career and engage students in high impact practices to enhance their collegiate experience and increase their marketability after degree completion. Specifically, we aim to increase the graduates at UW-Platteville from African American, American Indian, Latino/as and Southeast Asian communities.

Patricia A. Doyle Women's Center
Director: Patricia Foster
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.

Office of Diversity and Inclusion
Assistant Chancellor and Chief Diversity Officer:
Dr. Jennifer deCoste
Office: 2500 Ullsvik Hall
Phone: 608.342.6152
E-mail: decostej@uwplatt.edu

Education Abroad
Director: Donna Anderson
Office: 111 Royce Hall
Phone: 608.342.1726
UW-Platteville Education Abroad is a provider of education abroad programs open to students from any U.S. college or university. Since 1979, more than 10,000 students from over 250 institutions nationwide have chosen to study abroad through UW-Platteville Education Abroad because of our affordable and distinctive programs.

UW-Platteville students are able to participate in more than 700 different programs 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, academic or calendar year and short-term programs 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!
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.
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 educational 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 www.uwplatt.edu/counseling.

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 Resources

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

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. The 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: Lnda Mulroy-Bowden
Location: First Floor Royce Hall
Phone: 608.342.1845
E-Mail: reslife@uwplatt.edu
Website: http://www3.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.

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 for residence halls (rental agreement) 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.
**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 (SUFAC), Presidents’ Council, and United Greek Council (UGC).

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**Student Health Services**

**Director:** Vickie Dreessens  
**Location:** Second Floor, Royce Hall  
**Phone:** 608.342.1891  
**Website:** 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.
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 Department of Business Administration.

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:**

**Business Track**
- BSAD 2330 Leadership & Management 3 cr

**OR**
- AGIN 1500 Intro. to Agribusiness 3 cr

- BSAD 2630 Intro. to Marketing 3 cr

**AGIN**
- 2430 Ag. Marketing 3 cr

**ACCT**
- 2010 Financial Accounting 3 cr

**AND**
- ENTRP 3050 New Venture Planning: Social, Commercial, Artistic, and Scientific Ventures 3 cr

**Non Business Track**
- ENTRP 2030 Accounting and Financing Basics for Non Business Majors 3 cr

- ENTRP 2040 Management and Marketing Basics for Non Business Majors 3 cr

**Plus:** Choose one of two tracks

- ENTRP 3060 New Venture Operations 3 cr

Pre-approved Elective Course(s): no more than 3 cr

- BSAD 3230 Small Business Management 3 cr

Other pre-approved courses

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**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  
Charles Steiner

**Assistant Professors:**  
Matthew Akins  
Donita Cartmill  
James Hampton  
Krista Hardyman  
Yari Johnson  
Tera Montgomery  
Muthusubramanian  
Venkateshwaran

**Academic Staff:**  
Heidi Bredeson  
Benjamin Brown  
Dennis Busch  
Justin Daugherty  
Dawn Lee  
Craig Hendrickson  
Kia Hendrickson  
Jodi McDermott  
Randy Mentz  
Alicia Prill-Adams  
Cory Weigel

**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  
International Emphasis  
Meat and Livestock Emphasis  
Science Emphasis

**Ornamental Horticulture Major:**  
Breeding and Genetics Emphasis  
Business and Marketing Emphasis  
International Emphasis  
Professional Landscape Management Emphasis

**Reclamation, Environment and Conservation Major:**  
Biological Emphasis  
Chemistry Emphasis  
Physical 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
Ornamental 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 with 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; ornamental 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, animal science, ornamental 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.

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 ornamental 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 ornamental 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 Agribusiness Internship Course (AGINDUS 4580) and satisfactorily complete the program requirements to receive college credit. Students majoring in agribusiness, ornamental 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 ................. 12 credits
Major studies ....................................................... 36-60 credits
Minor studies .......................................................... 24 credits

School of Agriculture Core Curriculum
(12 credits)
Students majoring in agribusiness, agricultural education, animal science, and soil and crop science must satisfactorily complete the following School of Agriculture core courses:

AGINDUS 1500 Introduction to Agribusiness 3 cr
AGINDUS 1750 Equipment, Structures and Power Systems 3 cr
AGSCI 1000 Introduction to Animal Science 3 cr
AGSCI 1240 The Plant-Soil Environment 3 cr

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

**Agribusiness Major with Minor**

**Required Core SOA Courses (12 credits):**

- AGINDUS 1500 Introduction to Agribusiness 3 cr
- AGINDUS 1750 Equipment, Structure and Power Systems 3 cr
- AGSCI 1000 Introduction to Animal Science 3 cr
- AGSCI 1240 The Plant-Soil Environment 3 cr

**Required Agribusiness Courses (35 credits):**

- ACCTING 2010 Financial Accounting 3 cr
- ACCTING 2020 Managerial Accounting 3 cr
- AGINDUS 2430 Agricultural Marketing 3 cr
- AGINDUS 2450 Agribusiness Professional Development 1 cr
- AGINDUS 3410 Agricultural Consulting and Sales 3 cr
- AGINDUS 3430 Quantitative Methods in Agribusiness 3 cr
- AGINDUS 3450 Agribusiness Professional Development II 1 cr
- AGINDUS 3460 Farm Management and Record Systems 3 cr
- AGINDUS 4500 Agribusiness Management 3 cr
- AGINDUS 4580 Agribusiness Internship 3 cr

**Commodity and Price Analysis Emphasis (29 credits)**

- AGINDUS 3500 Agricultural Prices and Risk Management 3 cr
- AGINDUS 3530 Agricultural Commodity Marketing 3 cr
- AGINDUS 4330 Agribusiness Marketing Management 3 cr
- AGINDUS 4440 Livestock and Meat Marketing Price Forecasting 3 cr
- AGINDUS 4620 Agricultural Commodity Engineering Technology or Reclamation beyond the core courses.

**Electives (12 credits):**

Select electives in consultation with advisor.

**Minor (24 credits):**

Select a 24-credit university minor to complete the degree.
Management Emphasis (30 credits)

Required Courses (18 credits):
- AGINDUS 3420 Agricultural Finance 3 cr
- BUSADMIN 3530 Organizational Behavior 3 cr
- AGINDUS 4330 Agribusiness Marketing 3 cr
- AGINDUS 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):
- AGINDUS 2500 Producer and Consumer Cooperatives 3 cr
- AGINDUS 3520 Agricultural Law 3 cr
- AGINDUS 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
- AGINDUS 4330 Agribusiness Marketing 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):
- AGINDUS 3830 Engines and Tractor Systems 3 cr
- AGINDUS 3850 Electrical Applications in Agriculture 3 cr
- AGINDUS 3950 Soil and Water Conservation Engineering 3 cr
- AGINDUS 4690 Hydraulics and Machinery Engineering 3 cr
- AGINDUS 4790 Materials Handling and Energy Seminar 3 cr
AGINDUS 4890 Structures and Environmental Control 3 cr
Electives (12 credits):
Select electives in consultation with advisor.

International Emphasis

Required (12-21 credits):
- AGINDUS 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 (12 credits):

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>AGINDUS 1500</td>
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<td>AGINDUS 1750</td>
<td>Equipment, Structure and Power Systems</td>
<td>3 cr</td>
</tr>
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<td>AGSCI 1000</td>
<td>Introduction to Animal Science</td>
<td>3 cr</td>
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<tr>
<td>AGSCI 1240</td>
<td>The Plant-Soil Environment</td>
<td>3 cr</td>
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Required Agricultural Education Courses (5 credits):

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<td>AGINDUS 2920</td>
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<tr>
<td>AGINDUS 3900</td>
<td>Planning Cooperative Education in Agriculture</td>
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Required Crops/Soils/Ornamental Horticulture Courses (7 credits):

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<tr>
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<tr>
<td>Crops/Ornamental Horticulture elective</td>
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Required Ag Business Courses (9 credits):

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<tr>
<td>AGINDUS 2430</td>
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<tr>
<td>AGINDUS 2500</td>
<td>Producer and Consumer Cooperatives</td>
<td>3 cr</td>
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<td>AGINDUS 3460</td>
<td>Farm Management and Record Systems</td>
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OR

<table>
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<tbody>
<tr>
<td>AGINDUS 4500</td>
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Required Animal Science Courses (10 credits):

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<td>AGSCI 3000</td>
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Required Engineering Technology Courses (9 credits):

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<tbody>
<tr>
<td>INDUSTDY 1430</td>
<td>Basic Metals Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 4890</td>
<td>Structures and Environmental Control</td>
<td>3 cr</td>
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Agribusiness Engineering Technology elective | 3 cr |

Required Education Courses (40 credits):

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<tr>
<td>TEACHING 2010</td>
<td>Computer Applications in Education</td>
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<tr>
<td>TEACHING 2130</td>
<td>Human Growth and Development</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 3110</td>
<td>Key Concepts of Middle Level Education</td>
<td>2 cr</td>
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</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 1010 will satisfy the requirement), TEACHING 1230 Introduction to Education or PHYS 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):

- AGSCI 1000 Introduction to Animal Science 3 cr
- AGSCI 1240 The Plant-Soil Environment 3 cr
- AGSCI 2230 Soils 4 cr
- AGINDUS 1750 Equipment, Structure and Power Systems 3 cr
- AGINDUS 1500 Introduction to Agribusiness 3 cr
- INDUSTDY 1530 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 in Education 3 cr
- TEACHING 3110 Key Concepts of Middle Level Education 2 cr
- TEACHING 3120 Characteristics of Transcendent 2 cr
- TEACHING 3320 Psychology of Learning and the Exceptional Child in Education 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

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
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 (12 credits):
- AGINDUS  1500 Introduction to Agribusiness  3 cr
- AGINDUS  1750 Equipment, Structure and Power Systems  3 cr
- AGSCI  1000 Introduction to Animal Science  3 cr
- AGSCI  1240 The Plant-Soil Environment  3 cr

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

Required Crops/Soils/Ornamental Horticulture Courses (14 credits):
- AGSCI  2230 Soils  3 cr
- AGSCI  3260 Seed and Grain Crops  3 cr
- AGSCI  3350 Soil Fertility and Fertilizers  3 cr
- AGSCI  3330 Soil Morphology and Classification  3 cr
- Crops, soils or ornamental horticulture electives  5 cr

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

Required Agriculture Courses (9 credits):
- AGINDUS  2430 Agricultural Marketing  3 cr
- AGINDUS  2500 Producer and Consumer Cooperatives  3 cr
- AGINDUS  3460 Farm Management and Record Systems  3 cr
- AGINDUS  4500 Agribusiness Management  3 cr
- Agribusiness electives  5 cr

Required Agribusiness Engineering Technology Courses (9 credits):
- AGINDUS  3830 Engines and Tractor Systems  3 cr
- AGINDUS  3950 Soil and Water Conservation Engineering  3 cr
- AGINDUS  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 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

Animal science offers two options, a major with a university minor or a comprehensive major with emphases. AGSCI 1000 will count as an elective in the animal science minor.
Animal Science Comprehensive Major (60 credits)

**Required Core SOA Courses (12 credits):**
- AGINDUS 1500 Introduction to Agribusiness 3 cr
- AGINDUS 1750 Equipment, Structure and Power Systems 3 cr
- AGSCI 1000 Introduction to Animal Science 3 cr
- AGSCI 1240 The Plant-Soil Environment 3 cr

**Required Animal Science Courses (18 credits):**
- AGSCI 2010 Anatomy and Physiology of Domestic Livestock 4 cr
- AGSCI 3000 Animal Nutrition 4 cr
- AGSCI 3030 Genetics of Livestock Improvement 3 cr
- AGSCI 3110 Reproductive Physiology of Domestic Animals 4 cr
- AGSCI 4190 Seminar in Animal Science and Biotechnology 3 cr

**At least two courses from (8 credits):**
- AGSCI 4030 Beef Management 4 cr
- AGSCI 4040 Swine Management 4 cr
- AGSCI 4070 Dairy Cattle Management 4 cr
- AGSCI 4170 Small Ruminant Animal Management 4 cr

Meat and livestock emphasis must take AGSCI 4030 and AGSCI 4040. Dairy emphasis must take AGSCI 4070.

**At least one course from (3 credits):**
- AGSCI 2030 Introduction to Food Science 3 cr
- AGSCI 3010 Dairy Product Analysis and Processing 3 cr
- AGSCI 3040 Principles of Meat Science 3 cr

Meat and livestock emphasis must take AGSCI 3040. Dairy emphasis must take AGSCI 3010.

**Agribusiness Emphasis Required Courses (12 credits):**
- AGINDUS 2430 Agricultural Marketing 3 cr
- AGINDUS 3410 Agriculture Consulting/Sales 3 cr
- AGINDUS 3460 Farm Management and Record Systems 3 cr
- AGINDUS 3500 Agricultural Prices and Risk Management 3 cr

**Electives (19 credits):**
Other courses approved by advisor

**Dairy Emphasis Required Courses (12 credits):**
- AGSCI 2020 Introduction to Dairy Science 3 cr
- AGSCI 2050 Dairy Cattle Evaluation 3 cr
- AGSCI 4080 Ruminant Nutrition 3 cr
- AGSCI 4150 Biology of Lactation 3 cr

**Electives (19 credits):**
Other courses approved by advisor

**International Emphasis Required (12 credits):**
- AGINDUS 2330 World Population, Food and Resources 3 cr
- SPEECH 2300 Introduction to Intercultural Communication 3 cr
- ENGLISH 3260 Language and Culture 3 cr

**One course from:**
- BUSADMIN 1300 Global Business 3 cr
- BUSADMIN 3720 International Marketing 3 cr
- BUSADMIN 4140 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.

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

**Animal Science Electives (9 credits):**
Other courses approved by advisor

**Meat and Livestock Emphasis Required Courses (15-16 credits):**
- AGSCI 2000 Meat Animal Evaluation 3 cr
- AGSCI 4120 Animal Rights and Welfare Social Movements 3 cr
- AGSCI 4140 Meat Processing 3 cr

**One of the following:**
- AGSCI 4080 Ruminant Nutrition 3 cr
- AGSCI 4090 Monogastric Nutrition 3 cr

**One of the following:**
- BIOLOGY 3240 Microbiology 4 cr
- AGINDUS 4400 Livestock and Meat Marketing 3 cr

**Electives (15-16 credits):**
Other courses approved by advisor
Science Emphasis

Required Courses (26 credits):

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<td>General Chemistry</td>
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<td>CHEMSTRY 3540</td>
<td>Organic Chemistry</td>
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<td>CHEMSTRY 4630</td>
<td>Biochemistry</td>
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Electives (6 credits):

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<td>Animal Tissue Culture</td>
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<td>Principles of Genetics</td>
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</tr>
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</table>

Other courses approved by advisor

Ornamental Horticulture

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

Ornamental horticulture is the art and science of producing and using plants for their aesthetic value. It is a division of the broader field of horticulture involved in the production and sales of greenhouse, florist and nursery plants as well as the design and management of landscapes and interior spaces for public and private use.

Mission Statement

The ornamental horticulture program prepares graduates that value and use creative and critical thinking, are effective communicators and act as responsible, ethical and competent horticulturists. This is 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.

Goals and Learning Outcomes

Graduates of the ornamental horticulture program will:

1. Demonstrate effective oral and written communication skills

Outcomes:

- Students will enhance and value their written and oral communication skills with liberal arts and science-based knowledge
- Students will improve their self-confidence and comfort level during public speaking
- Students will be able to communicate with their peers in the ornamental horticulture and botanic fields using professional terminology

2. Exhibit working knowledge of ornamental plant species in Midwest landscapes, greenhouses, athletic fields, and public and interior spaces

Outcomes:

- Students will possess working knowledge of current plant nomenclature for important ornamental plant species
- Students will possess working knowledge of the care, use and placement of ornamental plant species in a variety of settings

3. Demonstrate an in-depth comprehension of the horticultural and biological sciences, and be able to apply their knowledge as it relates to ornamental horticulture in a variety of settings

Outcomes:

- Comprehend and apply knowledge of plant physiological processes on plant growth and development of natural and bioengineered plants in production and landscape settings
- Comprehend and apply knowledge of genotypic and environmental influences on plant growth and development
- Comprehend and apply knowledge of the influence of soils and soil-less growing media on plant growth and development in protected and unprotected ornamental horticulture
- Comprehend and apply the basic principles of integrated pest management to control weeds, pests, diseases and physiological disorders of ornamental plants
- Comprehend and apply the basic principles of landscape design and management

4. Possess the ability to think creatively and recognize, analyze, diagnose and critically evaluate problems and practices, as well as employ problem-solving techniques individually or using a team-oriented approach

Outcomes:

- Demonstrate an ability to observe, investigate and evaluate problem situations to achieve clear and concise deductions
- Possess the ability to apply a logical, stepwise approach to solving practical problems
- Demonstrate an ability to collect and analyze information and compose professional, technical reports

5. Possess a comprehension of the administrative and managerial skills necessary when managing and operating a horticultural business

Outcomes:

- Competent in the application of computerized technology
- Comprehend effective management of employees and colleagues of diverse backgrounds
- Comprehend effective management and attainment of nonhuman resources
- Recognize and compare efficient and optimal production practices for sustainability
6. Be professionals and leaders in society and ornamental horticulture that act in a courteous, ethical and responsible manner

Outcomes:
- Seek and participate in campus, community, professional and international opportunities
- Comprehend the need to act ethically and responsibly in professional and personal matters
- Appreciate the contribution of colleagues regardless of rank, race, gender or sexual orientation

Ornamental horticulture is a 36-credit major. Students must also choose a 24-credit emphasis offered through the ornamental horticulture major or 24-credit minor. Emphasis areas associated directly with the ornamental horticulture major include business and marketing, breeding and genetics, professional landscape management and international.

Experiential learning is an important part of the ornamental horticulture curricula. For this reason, students are required to complete a three-credit internship. Internships are available throughout the year across the United States, and provide excellent practical experience to earn college credits.

Students who 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 ornamental horticulture major by completing courses in math, science and ornamental horticulture. Two or more years of Spanish is highly recommended.

Summer jobs with a greenhouse, nursery or landscaping firm are beneficial.

**Ornamental Horticulture Major (36 credits)**

**Required Courses (30 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 1240</td>
<td>The Plant-Soil Environment</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 2230</td>
<td>Soils</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 2280</td>
<td>Woody Landscape Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3220</td>
<td>Plant Development</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 3310</td>
<td>Soils, Crops and Ornamental Horticulture Seminar</td>
<td>1 cr</td>
</tr>
<tr>
<td>AGSCI 3320</td>
<td>Landscape Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4260</td>
<td>Interior Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3360</td>
<td>Greenhouse Operation and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4340</td>
<td>Plant Physiology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4530</td>
<td>Plant Pathology</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 4580</td>
<td>Agricultural Business Internship</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 1350</td>
<td>General Botany</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1050/1140</td>
<td>Chemistry</td>
<td>4-5 cr</td>
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**Electives (6 credits):**

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<tr>
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<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AGSCI 3200</td>
<td>Pest Identification and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3230</td>
<td>Turfgrass Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3240</td>
<td>Herbaceous Plants</td>
<td>2 cr</td>
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</tbody>
</table>

**(AGSCI 3320 Landscape Management)**

**Ornamental Horticulture Electives (7-10 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>AGSCI 3200</td>
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<tr>
<td>AGSCI 3230</td>
<td>Turfgrass Management</td>
</tr>
<tr>
<td>AGSCI 3270</td>
<td>Landscape Design</td>
</tr>
<tr>
<td>AGSCI 3280</td>
<td>Landscape Construction</td>
</tr>
<tr>
<td>AGSCI 3300</td>
<td>Fruit and Vegetable Production</td>
</tr>
<tr>
<td>AGSCI 3320</td>
<td>Landscape Management **</td>
</tr>
<tr>
<td>AGSCI 3360</td>
<td>Greenhouse Operation and Management</td>
</tr>
<tr>
<td>AGSCI 3370</td>
<td>Undergraduate Research in Ornamental Horticulture</td>
</tr>
<tr>
<td>AGSCI 3400</td>
<td>Special Topics in Ornamental Horticulture</td>
</tr>
<tr>
<td>AGSCI 4250</td>
<td>Weed Science</td>
</tr>
<tr>
<td>AGSCI 4270</td>
<td>Advanced Landscape Design</td>
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<td>Genetics</td>
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<tr>
<td>BIOLOGY 3340</td>
<td>Entomology</td>
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<tr>
<td>BIOLOGY 3550</td>
<td>Morphology of Vascular Plants</td>
</tr>
<tr>
<td>RECLAM 3020</td>
<td>Reclamation Revegetation</td>
</tr>
</tbody>
</table>

**(AGSCI 3320 Landscape Management)**

**Counts as an elective if not used to fulfill requirement for ornamental horticulture major**

**Areas of Emphasis**

**Business and Marketing Emphasis Requirements for Ornamental Horticulture Major (30 credits)**

**Required Courses (8 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACCTING 2010</td>
<td>Financial Accounting</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 1500</td>
<td>Introduction to Agribusiness</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 1300</td>
<td>Global Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3240</td>
<td>Herbaceous Plants</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

**Ornamental Horticulture Electives (7-10 credits):**

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<td>Morphology of Vascular Plants</td>
</tr>
<tr>
<td>RECLAM 3020</td>
<td>Reclamation Revegetation</td>
</tr>
</tbody>
</table>

**Counts as an elective if not used to fulfill requirement for ornamental horticulture major**
Business and Marketing Electives (12-15 credits):
AGINDUS  2430  Agricultural Marketing  3 cr
AGINDUS  3410  Agricultural Consulting and Sales  3 cr
AGINDUS  3420  Agricultural Finance  3 cr
AGINDUS  4330  Agribusiness Marketing Management  3 cr
COMPUTER  1830  Microcomputer Applications  3 cr
COMPUTER  2830  Advanced Microcomputer Applications  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
MEDIA  3010  Business Communications  3 cr

Professional Landscape Management Emphasis Requirements for Ornamental Horticulture Major (30 credits)
Required Courses (14 credits):
AGSCI  3230  Turfgrass Management  3 cr
AGSCI  3240  Herbaceous Plants  2 cr
AGSCI  3270  Landscape Design  3 cr
AGSCI  4250  Weed Science  3 cr
AGSCI  4260  Interior Plants  3 cr

Professional Landscape Management Electives (16 credits):
AGINDUS  1500  Introduction to Agribusiness  3 cr
AGINDUS  1750  Equipment, Structure and Power Systems  3 cr
AGINDUS  3830  Engine and Tractor Systems  3 cr
AGINDUS  3850  Electrical Applications in Agriculture  3 cr
AGINDUS  3950  Soil and Water Conservation Engineering  3 cr
AGINDUS  4580  Agribusiness Internship  3 cr
AGSCI  3200  Pest Identification and Management  3 cr
AGSCI  3280  Landscape Construction  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3350  Soil Fertility and Fertilizers  3 cr
AGSCI  3400  Special Topics in Ornamental Horticulture  1-3 cr
AGSCI  3370  Undergraduate Research in Ornamental Horticulture  1-3 cr
AGSCI  4250  Weed Science  3 cr
AGINDUS  4580  Agribusiness Internship  3 cr
AGSCI  3270  Landscape Design  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3350  Soil Fertility and Fertilizers  3 cr
AGSCI  3400  Special Topics in Ornamental Horticulture  1-3 cr
AGSCI  3370  Undergraduate Research in Ornamental Horticulture  1-3 cr
AGSCI  4250  Weed Science  3 cr
AGINDUS  4580  Agribusiness Internship  3 cr
AGSCI  3270  Landscape Design  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3350  Soil Fertility and Fertilizers  3 cr
AGSCI  3400  Special Topics in Ornamental Horticulture  1-3 cr
AGSCI  3370  Undergraduate Research in Ornamental Horticulture  1-3 cr
AGSCI  4250  Weed Science  3 cr
AGINDUS  4580  Agribusiness Internship  3 cr
AGSCI  3270  Landscape Design  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3350  Soil Fertility and Fertilizers  3 cr
AGSCI  3400  Special Topics in Ornamental Horticulture  1-3 cr
AGSCI  3370  Undergraduate Research in Ornamental Horticulture  1-3 cr
AGSCI  4250  Weed Science  3 cr
AGINDUS  4580  Agribusiness Internship  3 cr
AGSCI  3270  Landscape Design  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3350  Soil Fertility and Fertilizers  3 cr
AGSCI  3400  Special Topics in Ornamental Horticulture  1-3 cr
AGSCI  3370  Undergraduate Research in Ornamental Horticulture  1-3 cr
AGSCI  4250  Weed Science  3 cr
AGINDUS  4580  Agribusiness Internship  3 cr
AGSCI  3270  Landscape Design  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3350  Soil Fertility and Fertilizers  3 cr
AGSCI  3400  Special Topics in Ornamental Horticulture  1-3 cr
AGSCI  3370  Undergraduate Research in Ornamental Horticulture  1-3 cr
AGSCI  4250  Weed Science  3 cr
AGINDUS  4580  Agribusiness Internship  3 cr
AGSCI  3270  Landscape Design  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3350  Soil Fertility and Fertilizers  3 cr
AGSCI  3400  Special Topics in Ornamental Horticulture  1-3 cr
AGSCI  3370  Undergraduate Research in Ornamental Horticulture  1-3 cr
AGSCI  4250  Weed Science  3 cr
AGINDUS  4580  Agribusiness Internship  3 cr
AGSCI  3270  Landscape Design  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3350  Soil Fertility and Fertilizers  3 cr
AGSCI  3400  Special Topics in Ornamental Horticulture  1-3 cr
AGSCI  3370  Undergraduate Research in Ornamental Horticulture  1-3 cr
AGSCI  4250  Weed Science  3 cr
International Emphasis Requirements for Ornamental Horticulture Major (30 credits)

Required Courses (14-23 credits):

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3420</td>
<td>Herbaceous Plants</td>
<td>2 cr</td>
</tr>
<tr>
<td>AGINDUS 2330</td>
<td>World Population, Food and Resources</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH 2300</td>
<td>Intercultural Communication</td>
<td>3 cr</td>
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</table>

One course from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 1300</td>
<td>Global Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3720</td>
<td>International Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 4940</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.

Ornamental Horticulture Electives (4 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3200</td>
<td>Pest Identification and Management</td>
<td>3 cr</td>
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<tr>
<td>AGSCI 3230</td>
<td>Turfgrass Management</td>
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<tr>
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<td>Landscape Management</td>
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</tr>
<tr>
<td>or</td>
<td>AGSCI 4260  Interior Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3370</td>
<td>Undergraduate Research in Ornamental Horticulture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>AGSCI 3400</td>
<td>Special Topics in Ornamental Horticulture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>AGSCI 4250</td>
<td>Weed Science</td>
<td>3 cr</td>
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<tr>
<td>BIOLOGY 3330</td>
<td>Genetics</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3340</td>
<td>Entomology</td>
<td>4 cr</td>
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<tr>
<td>BIOLOGY 3640</td>
<td>Plant Systematics</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3550</td>
<td>Morphology and Evolution of Vascular Plants</td>
<td>4 cr</td>
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<tr>
<td>RECLAM 3020</td>
<td>Reclamation Revegetation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 4580</td>
<td>Agribusiness Internship</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: Christopher Baxter
Program Office: 310 Pioneer Tower
Phone: 608.342.1388
E-mail: baxterch@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 site 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):**

**CHEMSTRY** 1240 Chemistry 4 cr
(unnecessary if 1450 is taken)

**CHEMSTRY** 3110 Environmental Chemistry Lab 1 cr

**CHEMSTRY** 3130 Environmental Chemistry 3 cr

**COMPUTER** 1830 Microcomputer Applications 3 cr

**AGSCI** 2230 Soils 4 cr

**BIOLOGY** 3450 Ecology and Evolution 3 cr

**BIOLGY** 2420 FBI: Fundamentals of Biological Investigations 2 cr

or

**ENGLISH** 3000 Technical Writing 3 cr

or

**CIVILENG** 2630 Elements of Surveying 3 cr

**RECLAM** 1010 Introduction to Reclamation 3 cr

**RECLAM** 3020 Reclamation Revegetation 3 cr

**RECLAM** 3900 Reclamation Demonstration Field Trip 3 cr

**RECLAM** 4940 Reclamation Project Management 3 cr

**GENENG** 1320 Engineering Graphics/Computer Graphics 2 cr

or

**INDUSTDY** 1230 Technical Drafting 3 cr

**GEOLOGY** 1140 Physical Geology 4 cr

or

**GEOLOGY** 3130 Engineering Geology 3 cr

**CIVILENG** 4300 Hydrology 3 cr

or

**GEOLOGY** 3430 Hydrogeology 3 cr

**CIVILENG** 4310 Groundwater Hydrology 3 cr

**RECLAM** 3940 GIS/GPS and Mapping 3 cr

or

**CIVILENG** 4630 Geographic Information Systems 3 cr

**GEOGRPHY** 2230 Geographic Information Systems 3 cr

**AGINDUS** 3950 Soil and Water Conservation Engineering 3 cr

or

**AGSCI** 4350 Soil and Water Conservation 3 cr

**CIVILENG** 3020 Construction Engineering 3 cr

or

**CIVILENG** 3340 Environmental Engineering 4 cr

**RECLAM** 3880 Environmental Law 3 cr

**RECLAM** 4920 Independent Study 1-3 cr

or

**RECLAM** 4660 Cooperative Field Experience 3-6 cr

**BIOLOGY** 1350 General Botany 5 cr

**CHEM** 1140/1450 Chemistry 4-5 cr

**MATH** 1830 Elementary Statistics 3 cr

**MATH** 2450 Pre-Calculus 5 cr

or

**MATH** 2530 Trig/Analytic Geometry 3 cr

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**Physical Emphasis**

*Required Courses (10-11 credits):*

**PHYSICS** 1140 Introduction to Physics I 4 cr

or

**PHYSICS** 2530 General Physics I and Lab 4 cr

**GEOGRPHY** 3230 GIS: Vector Fundamentals 4 cr

**GEOGRPHY** 1140 Global Landforms 4 cr

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**Chemistry Emphasis**

*Required Courses (10 credits):*

**CHEMSTRY** 2150 Quantitative Analysis 4 cr

**CHEMSTRY** 3540 Organic Chemistry I Lecture 4 cr

**CHEMSTRY** 3510 Organic Chemistry I Lab 1 cr

**CHEMSTRY** 3630 Organic Chemistry II Lecture 4 cr

**CHEMSTRY** 3610 Organic Chemistry II Lab 1 cr

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**Biology Emphasis**

*Required Courses (15 credits):*

**AGSCI** 1240 The Plant-Soil Environment 3 cr

**AGSCI** 3350 Soil Fertility and Fertilizers 3 cr

**BIOLOGY** 1750 Diversity of Life 5 cr

**BIOLOGY** 3460 Ecological Methods of Research 3 cr

**BIOLOGY** 3640 Plant Systematics 4 cr

**BIOLOGY** 3660 Animal Communities of Wisconsin 3 cr

**BIOLOGY** 3650 Plant Communities of Wisconsin 4 cr

**BIOLOGY** 4530 Plant Pathology 3 cr

**BIOLOGY** 3750 Freshwater Biology 3 cr

**BIOLOGY** 3240 Microbiology 4 cr

**BIOLOGY** 3340 Entomology 4 cr

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**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 (12 credits):
- AGINDUS 1500 Introduction to Agribusiness 3 cr
- AGINDUS 1750 Equipment, Structure and Power Systems 3 cr
- AGSCI 1000 Introduction to Animal Science 3 cr
- AGSCI 1240 The Plant-Soil Environment 3 cr

Required Courses (27 credits):
- AGSCI 2230 Soils 4 cr
- AGSCI 3200 Pest Identification and Management 3 cr
- AGSCI 3220 Plant Development and Biotechnology 4 cr
- AGSCI 3310 Soils, Crops and Ornamental Horticulture Seminar 1 cr
- AGSCI 3340 Nutrient Management 3 cr
- AGSCI 3350 Soil Fertility and Fertilizers 3 cr
- AGSCI 4340 Plant Physiology 3 cr
- AGSCI 4350 Soil and Water Conversion 3 cr
- AGINDUS 4580 Agribusiness Internship 3 cr
- BIOLOGY 1350 General Botany 5 cr
- CHEM 1050/1140 Chemistry 4-5 cr

Electives (9 credits):
- AGSCI 3230 Turfgrass Management 3 cr
- AGSCI 3260 Seed and Grain Crops 3 cr
- AGSCI 3300 Fruit and Vegetable Production 3 cr
- AGSCI 3330 Soil Morphology and Classification 3 cr
- AGSCI 3380 Special Problems in Soil Science 1-3 cr
- AGSCI 3390 Special Problems in Crop Science 1-3 cr
- AGSCI 4240 Plant Breeding 4 cr
- AGSCI 4250 Weed Science 3 cr
- AGSCI 4320 Forage Crops 3 cr
- AGSCI 4360 Crop Pesticides and Growth Regulators 3 cr
- AGSCI 4390 Soil Analysis 3 cr
- AGSCI 4390 Soil Analysis 3 cr

Plant Breeding and Genetics Emphasis

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

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

Comprehensive Soil and Crop Science Emphasis

Required Courses (12 credits):
- AGSCI 3260 Seed and Grain Crops 3 cr
- AGSCI 3330 Soil Morphology and Classification 3 cr
- AGSCI 4250 Weed Science 3 cr
- AGSCI 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 3640 Plant Systematics 4 cr
- BIOLOGY 4530 Plant Pathology 3 cr
- GEOLOGY 1140 Physical Geology 4 cr
- GEOGRAPHY 1240 Weather and Climate 4 cr
- PHYSICS 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.
International Emphasis

Required Courses (44-53 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 2330</td>
<td>World Population, Food and Resources</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 4580</td>
<td>Agribusiness Internship</td>
<td>3</td>
</tr>
<tr>
<td>SPEECH 2300</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

One course from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 1300</td>
<td>Global Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSADMIN 3720</td>
<td>International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUSADMIN 4940</td>
<td>International Management</td>
<td>3</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.

Soil and Crop Science Electives (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3230</td>
<td>Turfgrass Management</td>
<td>3</td>
</tr>
<tr>
<td>AGSCI 3300</td>
<td>Fruit and Vegetable Production</td>
<td>3</td>
</tr>
<tr>
<td>AGSCI 3330</td>
<td>Soil Morphology and Classification</td>
<td>3</td>
</tr>
<tr>
<td>AGSCI 3380</td>
<td>Special Problems in Soil Science</td>
<td>1-3</td>
</tr>
<tr>
<td>AGSCI 3390</td>
<td>Special Problems in Crop Science</td>
<td>1-3</td>
</tr>
<tr>
<td>AGSCI 4240</td>
<td>Plant Breeding</td>
<td>4</td>
</tr>
<tr>
<td>AGSCI 4250</td>
<td>Weed Science</td>
<td>3</td>
</tr>
<tr>
<td>AGSCI 4320</td>
<td>Forage Crops</td>
<td>3</td>
</tr>
<tr>
<td>AGSCI 4360</td>
<td>Crop Pesticides and Growth Regulators</td>
<td>3</td>
</tr>
<tr>
<td>AGSCI 4370</td>
<td>Soil Physics</td>
<td>3</td>
</tr>
<tr>
<td>AGSCI 4390</td>
<td>Soil Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 3950</td>
<td>Soil and Water Conservation</td>
<td>3</td>
</tr>
<tr>
<td>RECLAM 3020</td>
<td>Reclamation Rev egetation</td>
<td>3</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 second semester.

Minors

Agribusiness Minor (24 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTING 2010</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 2430</td>
<td>Agricultural Marketing</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 3410</td>
<td>Agricultural Consulting and Sales</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 3500</td>
<td>Agricultural Prices</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 3460</td>
<td>Farm Management and Record Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

or

AGINDUS 4500 Agribusiness Management 3 cr

The remaining credits are selected from agribusiness classes.

Agricultural and Industrial Engineering Technology Minor (30 credits)

Required if not taken as part of a major:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 1750</td>
<td>Equip. Structures and Power Systems</td>
<td>3</td>
</tr>
<tr>
<td>INDUSTDY 1530</td>
<td>Power Systems Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses (27 Credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY 1200</td>
<td>AC/DC Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 3850</td>
<td>Electrical Applications in Agriculture</td>
<td></td>
</tr>
<tr>
<td>INDUSTDY 1230</td>
<td>Technical Drafting</td>
<td>3</td>
</tr>
<tr>
<td>INDUSTDY 1260</td>
<td>Building Construction Drafting</td>
<td></td>
</tr>
<tr>
<td>INDUSTDY 3460</td>
<td>3D Industrial Production Drafting</td>
<td></td>
</tr>
<tr>
<td>INDUSTDY 1430</td>
<td>Introduction to Metals Processes</td>
<td>3</td>
</tr>
<tr>
<td>INDUSTDY 3550</td>
<td>Fluid Power and Servo Systems</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 3830</td>
<td>Engines and Tractor Systems</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 3950</td>
<td>Soil and Water Conservation</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 4690</td>
<td>Machineray Engineering and Management</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 4790</td>
<td>Materials Handling and Energy Seminar</td>
<td>3</td>
</tr>
<tr>
<td>AGINDUS 4890</td>
<td>Structures and Environmental Control</td>
<td>3</td>
</tr>
</tbody>
</table>

Animal Science Minor (24 credits)

Required Courses (8 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3000</td>
<td>Animal Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>AGSCI 3110</td>
<td>Reproductive Physiology of Domestic Animals</td>
<td></td>
</tr>
</tbody>
</table>

One course from (4 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 4030</td>
<td>Beef Management</td>
<td>4</td>
</tr>
<tr>
<td>AGSCI 4040</td>
<td>Swine Management</td>
<td>4</td>
</tr>
<tr>
<td>AGSCI 4070</td>
<td>Dairy Cattle Management</td>
<td>4</td>
</tr>
<tr>
<td>AGSCI 4170</td>
<td>Small Ruminant Animal Management</td>
<td>4</td>
</tr>
</tbody>
</table>

One course from (3 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 2030</td>
<td>Introduction to Food Science</td>
<td>3</td>
</tr>
<tr>
<td>AGSCI 3010</td>
<td>Dairy Product Analysis and Processing</td>
<td>3</td>
</tr>
<tr>
<td>AGSCI 3040</td>
<td>Principles of Meat Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives to complete the minor
Ornamental Horticulture Minor
(24 credits)

Required Horticulture Courses (16 credits):
AGSCI  1240  The Plant-Soil Environment  3 cr
AGSCI  2230  Soils  4 cr
AGSCI  3360  Greenhouse Operation 3 cr
and Management
or
AGSCI  3320  Landscape Management  3 cr
BIOLOGY  4530  Plant Pathology  3 cr
AGINDUS  4580  Agribusiness Internship  3 cr

One Plant Identification Course (3-4 credits):
AGSCI  2280  Woody Landscape Plants 3 cr

Electives (4-5 credits):
AGSCI  2280  Woody Landscape Plants* 3 cr
AGSCI  3200  Pest Identification and Management 3 cr
AGSCI  3220  Plant Development 4 cr
and Biotechnology
AGSCI  3230  Turfgrass Management  3 cr
AGSCI  3240  Herbaceous Plants  2 cr
AGSCI  3270  Landscape Design  3 cr
AGSCI  3280  Landscape Construction  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3320  Landscape Management  3 cr
AGSCI  3360  Greenhouse Operation 3 cr
and Management*
AGSCI  3370  Undergraduate Research in  1-3 cr
Ornamental Horticulture
AGSCI  3400  Special Topics in  1-3 cr
Ornamental Horticulture
AGSCI  4250  Weed Science  3 cr
AGSCI  4340  Plant Physiology  3 cr
BIOLOGY  3340  Entomology  4 cr
BIOLOGY  3640  Plant Systematics  4 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):
AGSCI  2230  Soils  4 cr
AGSCI  3200  Pest Identification and Management 3 cr
AGSCI  3310  Soils, Crops and Ornamental Horticulture Seminar
AGSCI  3340  Nutrient Management  3 cr
AGSCI  3350  Soil Fertility and Fertilizers 3 cr

Soil and Crop Science Electives (6-7 credits):
AGSCI  3220  Plant Development and  4 cr
Biotechnology
AGSCI  3260  Seed and Grain Crops  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3330  Soil Morphology and Classification 3 cr
AGSCI  3380  Special Problems in Soil Science 1-3 cr
AGSCI  3390  Special Problems in Crop Science 1-3 cr
AGSCI  4240  Plant Breeding  4 cr
AGSCI  4250  Weed Science  3 cr
AGSCI  4320  Forage Crops  3 cr
AGSCI  4340  Plant Physiology  3 cr
AGSCI  4350  Soil and Water Conservation 3 cr
AGSCI  4360  Crop Pesticides and  3 cr
Growth Regulators
AGSCI  4370  Soil Physics  3 cr
AGSCI  4390  Soil Analysis  3 cr
AGINDUS  3950  Soil and Water  3 cr
Conservation Engineering

Required Biology/Physical Sciences Course (3-5 credits):
BIOLOGY  1350  Botany  5 cr
BIOLOGY  3240  Microbiology  4 cr
BIOLOGY  3330  Principles of Genetics  3 cr
BIOLOGY  3340  Entomology  4 cr
BIOLOGY  3640  Plant Systematics  4 cr
BIOLOGY  4530  Plant Pathology  3 cr
GEOLOGY  1140  Physical Geology  4 cr
GEOGRPHY  1040  Survey of Physical Geography  4 cr
GEOGRPHY  1140  Geomorphology  4 cr
GEOGRPHY  1240  Weather and Climate  4 cr
GEOGRPHY  3840  Soil Geomorphology  4 cr

Biotechnology Minor (29 credits)

See requirements outlined by the UW-Platteville Biology Department
DEPARTMENT OF BIOLOGY

www.uwplatt.edu/biology

Department Chair: Jeff Huebschman
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Phone: 608.342.1793
E-mail: huebschj@uwplatt.edu

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Jeff Huebschman
Esther Ofulue
Amanda Trewin
Marilyn Tufte
Kristopher Wright

Lecturers:
Cathy Cornett
Ben Grady
Bruce Jarvis
Anna Schmidt
Ryan Schmitz
Wendy Stankovich

Associate Professor:
Sharon Klavins

Assistant Professors:
Rich Dhyanchand
Ryan Haasl
Rebecca Doyle-Morin
John Peterson

Academic Department Associate:
Ann Bauer-Leffler

Laboratory Manager:
Gloria J. Stuckey

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 organisms.

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, CHEMISTRY 1140, CHEMISTRY 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 (31 credits)**

ALL biology majors must complete core courses in the following three areas (31 credits):

### Required Biology Core Courses (19 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 1020</td>
<td>BioQuest: Foundations for College Success</td>
<td>1 cr</td>
</tr>
<tr>
<td>BIOLOGY 1650</td>
<td>Unity of Life</td>
<td>5 cr</td>
</tr>
<tr>
<td>BIOLOGY 1750</td>
<td>Diversity of Life</td>
<td>5 cr</td>
</tr>
<tr>
<td>BIOLOGY 2420</td>
<td>FBI: Fundamentals of Biological Investigations</td>
<td>2 cr</td>
</tr>
<tr>
<td>BIOLOGY 3330</td>
<td>Genetics</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3450</td>
<td>Ecology and Evolution</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

### Required Biology Capstone Experience – choose one of the following (1 credit):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 4970</td>
<td>Senior Thesis</td>
</tr>
<tr>
<td>or BIOLOGY 4990</td>
<td>From Atoms to Ecosystems-The Study of Life</td>
</tr>
</tbody>
</table>

### Required Supporting Courses (11 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMISTRY 1140</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEMISTRY 1240</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>MATH 1830</td>
<td>Elementary Statistics</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
</tr>
<tr>
<td>CHEMISTRY 3540/3510</td>
<td>Organic Chemistry I and Lab</td>
</tr>
<tr>
<td>CHEMISTRY 3630/3610</td>
<td>Organic Chemistry II and Lab</td>
</tr>
<tr>
<td>CHEMISTRY 4630/4610</td>
<td>General Biochemistry and Lab</td>
</tr>
<tr>
<td>PHYSICS 1050</td>
<td>Principles of Physics</td>
</tr>
<tr>
<td>PHYSICS 1350</td>
<td>Introductory Physics I</td>
</tr>
<tr>
<td>PHYSICS 1450</td>
<td>Introductory Physics II</td>
</tr>
<tr>
<td>PSYCHLG 1130</td>
<td>General Psychology</td>
</tr>
<tr>
<td>SOCIOLOGY 1130</td>
<td>Principles of Sociology</td>
</tr>
<tr>
<td>PSYCHLG (courses in philosophy)</td>
<td></td>
</tr>
</tbody>
</table>

**Biology Major (Non-emphasis) (45 credits)**

Biology majors must complete the biology requirements for 31 credits, plus two courses from (7-8 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 2040</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
</tr>
<tr>
<td>BIOLOGY 3460</td>
<td>Ecological Research and Methods</td>
</tr>
</tbody>
</table>

**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 (31 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):**

<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 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 2140</td>
<td>Anatomy and Physiology I</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 2240</td>
<td>Anatomy and Physiology II</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 2340</td>
<td>Essentials of Anatomy and Physiology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 3040</td>
<td>Comparative Anatomy of the Vertebrates</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3120</td>
<td>Animal Tissue Culture</td>
<td>2 cr</td>
</tr>
<tr>
<td>BIOLOGY 3140</td>
<td>Vertebrate Embryology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3530</td>
<td>Biotechnology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3620</td>
<td>Immunology</td>
<td>2 cr</td>
</tr>
<tr>
<td>BIOLOGY 4040</td>
<td>Molecular Biology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4130</td>
<td>Mammalian Endocrinology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4240</td>
<td>Advanced Physiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4340</td>
<td>Mammalian Histology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4440</td>
<td>Human Gross Anatomy</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4520</td>
<td>Biotechnology Seminar</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

**Additional Required Supporting Courses (9 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 3540/3510</td>
<td>Organic Chemistry I and Lab</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4630/4610</td>
<td>General Biochemistry and Lab</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**Electives to complete the emphasis (3-4 credits):**

Students may select any biology course above the 2000 level (except BIOLOGY 4010 Workshop in Biology).

**Recommended Minors:** Biotechnology, Chemistry, Mathematics, Psychology

**Botany Emphasis (29 credits)**

**Additional requirement: One of the following (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>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**At least four advanced plant-based courses (minimum of 14 credits) to be selected from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 2130</td>
<td>Plants and Society</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 3550</td>
<td>Morphology and Evolution of Vascular Plants</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3650</td>
<td>Plant Communities of Wisconsin</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4150</td>
<td>Forensic Botany</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4530</td>
<td>Plant Pathology</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Broad-Based Biology Course(s) (minimum of 3 credits) to be selected from:**

<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 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3340</td>
<td>Molecular Biology</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 3530</td>
<td>Biotechnology</td>
<td>2 cr</td>
</tr>
<tr>
<td>BIOLOGY 3750</td>
<td>Freshwater Biology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4410</td>
<td>Topics in Biology</td>
<td>cr vary</td>
</tr>
<tr>
<td>BIOLOGY 4520</td>
<td>Biotechnology Seminar</td>
<td>2 cr</td>
</tr>
<tr>
<td>BIOLOGY 4710</td>
<td>Selected Regional Habitats</td>
<td>cr vary</td>
</tr>
</tbody>
</table>

**Supporting Courses (minimum of 8 credits) to be selected from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 3540/3510</td>
<td>Organic Chemistry I and Lab</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4630/4610</td>
<td>General Biochemistry and Lab</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 2230</td>
<td>Soils</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 2280</td>
<td>Woody Landscape Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3240</td>
<td>Herbaceous Plants</td>
<td>2 cr</td>
</tr>
<tr>
<td>AGSCI 4250</td>
<td>Weed Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4350</td>
<td>Soil and Water Conservation</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENERGY 2130</td>
<td>Energy, Environment and Society</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOLOGY 1140</td>
<td>Physical Geology</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOLOGY 1240</td>
<td>Historical Geology</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOLOGY 2330</td>
<td>History of Life</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 1040</td>
<td>Planet Earth</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 1140</td>
<td>Global Landforms</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 1240</td>
<td>Physical Geography: Weather and Climate</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3340</td>
<td>Biogeography</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3230</td>
<td>Introduction GIS</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3330</td>
<td>Environmental Conservation</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 4150</td>
<td>Climate Change</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Recommended Minors:** Biotechnology, Chemistry, Environmental Science, Geology, Ornamental 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 (19 credits), 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):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 2140</td>
<td>Anatomy and Physiology I</td>
<td>4 cr</td>
</tr>
<tr>
<td>or</td>
<td>BIOLOGY 2340 Essentials of Anatomy and</td>
<td>4 cr</td>
</tr>
<tr>
<td></td>
<td>Physiology</td>
<td></td>
</tr>
<tr>
<td>BIOLOGY 4340</td>
<td>Mammalian Histology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Ecology Emphasis (59 credits)

Additional Biology Courses (4 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 2040</td>
<td>Cell Biology</td>
<td>4 cr</td>
</tr>
<tr>
<td>or</td>
<td>BIOLOGY 3240 Microbiology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Advanced Ecology Courses (6 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3750</td>
<td>Freshwater Biology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4710</td>
<td>Selected Regional Habitats</td>
<td>2-3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3340</td>
<td>Biogeography</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Advanced Organismal, Identification or Research Courses (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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 3040</td>
<td>Comparative Anatomy of Vertebrates</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3230</td>
<td>Mammalogy</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3340</td>
<td>Entomology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3550</td>
<td>Morphology and Evolution of Vascular Plants</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4150</td>
<td>Forensic Botany</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4530</td>
<td>Plant Pathology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4410</td>
<td>Topics in Biology</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

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 (e.g., Pigeon Lake) 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 3110</td>
<td>Environmental Chemistry Lab**</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3130</td>
<td>Environmental Chemistry**</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3510</td>
<td>Organic Chemistry Lab**</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3540</td>
<td>Organic Chemistry**</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3230</td>
<td>Introduction GIS</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 4330</td>
<td>Advanced GIS and GPS</td>
<td>4 cr</td>
</tr>
<tr>
<td>RECLAM 3010</td>
<td>Current Topics in Reclamation*</td>
<td>2 cr</td>
</tr>
<tr>
<td>CIVILENG 4630</td>
<td>Geographic Information Systems*</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

* This option requires instructor consent for both courses

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
GEOGRPHY 1140 Physical Geography: Geomorphology 4 cr
GEOGRPHY 1240 Physical Geography: Weather and Climate 4 cr
GEOGRPHY 3330 Environmental Conservation 3 cr
RECLAM 3020 Reclamation Revegetation 3 cr

**Students who expect to enter graduate or professional school should consider taking these courses.

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** Anatomy and Physiology I 4 cr
- **BIOLOGY 2240** Anatomy and Physiology II 4 cr
- **BIOLOGY 2340** Essentials in Anatomy and Physiology 4 cr
- **BIOLOGY 3040** Comparative Anatomy of the Vertebrates 4 cr
- **BIOLOGY 3120** Animal Tissue Culture 2 cr
- **BIOLOGY 3140** Vertebrate Embryology 4 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
- **AGSCI 3220** Plant Development and Biotechnology 3 cr
- **AGSCI 4240** Plant Breeding 3 cr
- **AGSCI 4340** Plant Physiology 4 cr
- **GENENG 4000** Nanotechnology 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)

Note: Biology-secondary education majors must earn a minimum G.P.A. of 2.75 in the major coursework.

Secondary Education Emphasis Core Courses (12-16 credits):

- **BIOLOGY 2040** Cell Biology 4 cr
- **BIOLOGY 3240** Microbiology 4 cr
- **BIOLOGY 2340** Essentials in Anatomy and Physiology (recommended) 4 cr
  or
- **BIOLOGY 2140/2240** Anatomy and Physiology I and II 8 cr

One advanced plant course (minimum of 3 credits) 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 3640** Plant Systematics 4 cr
- **BIOLOGY 3650** Plant Communities of Wisconsin 4 cr
- **AGSCI 2280** Woody Landscape Plants 3 cr
- **AGSCI 3240** Herbaceous Plants 2 cr
- **AGSCI 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 of the Vertebrates 4 cr
- **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 4 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 (approval required) 1-3 cr

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
  or
- **BIOLOGY 3040** Comparative Anatomy of the Vertebrates 4 cr
  or
- **BIOLOGY 2140** Anatomy and Physiology I 4 cr
  and
- **BIOLOGY 2240** Anatomy and Physiology II 4 cr

Zoology Electives (minimum of 9 credits):

- **BIOLOGY 2640** Invertebrate Zoology 4 cr
- **BIOLOGY 3030** Ornithology 3 cr
- **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
- **AGSCI 3220** Plant Development and Biotechnology 3 cr
- **AGSCI 4240** Plant Breeding 3 cr
- **AGSCI 4340** Plant Physiology 4 cr
- **GENENG 4000** Nanotechnology 3 cr

* Not currently offered on campus - may be taken from an accredited field station or other accredited program

Approved field station course(s) cr vary
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.)

**AGSCI 1000** Introduction to Animal Science 3 cr
**AGSCI 2600** Companion Animal Care and Management 3 cr
**AGSCI 3000** Animal Nutrition 4 cr
**AGSCI 3020** A and P of Domestic Animals 3 cr
**AGSCI 3070** Biotechnology in Animal Science 3 cr
**AGSCI 3120** Topics in Animal Health 3 cr
**AGSCI 4110** Reproductive Physiology of Domestic Animals 4 cr

**GEOGRPHY 1040** Planet Earth 4 cr
**GEOGRPHY 1140** Global Landforms 4 cr
**GEOGRPHY 3230** Intro 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, 4660 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, 4660 or 4920):

**BIOLOGY 2040** Cell Biology 4 cr
**BIOLOGY 2450** Fungi, Algae and Bryophytes 4 cr
**BIOLOGY 2640** Invertebrate Zoology 4 cr
**BIOLOGY 3030** Ornithology 3 cr
**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

**Biotechnology Minor (29 credits)**

**Required Courses (17 credits):**

**BIOLOGY 1650** Unity of Life 5 cr
**BIOLOGY 2040** Cell Biology 4 cr
**BIOLOGY 3330** Genetics 3 cr

or
**AGSCI 3030** Genetics of Livestock Improvement 3 cr
**BIOLOGY 4520** Biotechnology Seminar 2 cr

**Physiology Corequisite (3-4 credits):**

**AGSCI 3020** Anatomy and Physiology of Domestic Animals 4 cr
**AGSCI 4340** Plant Physiology 3 cr
**BIOLOGY 4240** Advanced Physiology 4 cr
**BIOLOGY 2240** Anatomy and Physiology II 4 cr
**BIOLOGY 2340** Essentials of Anatomy and Physiology 4 cr

*TCredits do not count toward completion of the minor.

**Tissue Culture Course(s) (2-5 credits):**

**AGSCI 3220** Plant Development and Biotechnology 4 cr
**BIOLOGY 3120** Animal Tissue Culture 2 cr

**Electives to Complete Minor (7-10 credits):**

**AGSCI 3070** Biotechnology in Animal Science 3 cr
**AGSCI 4110** Farm Animal Reproduction 4 cr
**AGSCI 4190** Seminar in Animal Science and Biotechnology 2 cr
**AGSCI 4240** Plant Breeding Principles 3 cr
**BIOLOGY 3240** Microbiology 4 cr
**BIOLOGY 3620** Immunology 2 cr
**BIOLOGY 4040** Molecular Biology 4 cr
**CHEMSTRY 4610** Biochemistry Lab 1 cr
**CHEMSTRY 4630** Biochemistry 3 cr
**CHEMSTRY 4830** Topics in Biochemistry 3 cr

**Up to 3 credits from:**

**AGSCI 3370** Special Problems in Plant Biotechnology 1-3 cr
**BIOLOGY 4410** Topics in Biology (applicable to biotechnology) 1-3 cr
**BIOLOGY 4920** Independent Research in Biology 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-Cytotechnology
Esther Ofulue
240 Gardner
608.342.1331

Pre-Dentistry
Rich Dhyanchand
340 Gardner
608.342.6155

Pre-Medical Technology
Esther Ofulue
240 Gardner
608.342.1331

Pre-Medicine
Rich Dhyanchand
340 Gardner
608.342.6155

Pre-Nursing
Amanda Trewin
241 Gardner
608.342.1527

Pre-Osteopathy
Amanda Trewin
241 Gardner
608.342.1527

Pre-Occupational Therapy
Marilyn Tufte
253 Gardner
608.342.1664

Pre-Optometry
Rich Dhyanchand
340 Gardner
608.342.6155

Pre-Podiatry
Amanda Trewin
241 Gardner
608.342.1527

Pre-Physician Assistant
Rich Dhyanchand
340 Gardner
608.342.6155

Pre-Physical Therapy
Marilyn Tufte
253 Gardner
608.342.1664

Pre-Podiatry
Amanda Trewin
241 Gardner
608.342.1527

Pre-Physical Therapy
Marilyn Tufte
253 Gardner
608.342.1664

Pre-Physician Assistant
Rich Dhyanchand
340 Gardner
608.342.6155

Pre-Podiatry
Amanda Trewin
241 Gardner
608.342.1527

Pre-Physical Therapy
Marilyn Tufte
253 Gardner
608.342.1664

Pre-Physician Assistant
Rich Dhyanchand
340 Gardner
608.342.6155

Pre-Podiatry
Amanda Trewin
241 Gardner
608.342.1527
**Mission Statement**

The UW-Platteville Department of Business and Accounting educates students for productive careers in a global business environment. We:

- provide excellent academic advising
- develop students’ critical thinking skills through experiential learning activities, including internships
- integrate the use of technology into our courses
- cultivate a learning environment that encourages teamwork and enhances students’ leadership skills
- enhance in our students a sense of ethics, a global perspective to business, an entrepreneurial spirit and a sensitivity to workplace and societal diversity
- offer a variety of opportunities for participation in student organizations
- extend our business administration degree to students worldwide via distance education
- pursue scholarly and professional activities that enhance our teaching and students’ learning
- provide service in our areas of expertise to businesses and nonprofit organizations in the local community, region and state and involve our students in such endeavors

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 department 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 Department offers four Master’s degree programs in Project Management, Organizational Change Leadership, Distance Education Leadership, and Integrated Supply Chain. More information about the Department’s distance programs can be found at: www.uwplatt.edu/disted/ or by calling toll-free 1-800-362-5460.

**General Requirements**

- **Total for graduation**: 120 credits
- **General education**: 49-58 credits
- **Major studies**: 65 credits (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
- Completing a Master of Business Administration degree after graduation as a part- or full-time student.

**Required Core Courses (53-57 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTING 2010</td>
<td>Financial Accounting</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING 2020</td>
<td>Management Accounting</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING 4990</td>
<td>Internship</td>
<td>3 cr</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUSADMIN 4990</td>
<td>Internship</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 1300</td>
<td>Global Business</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>(meets GE international requirement)</td>
<td></td>
</tr>
<tr>
<td>BUSADMIN 2100</td>
<td>Supply Chain Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2330</td>
<td>Leadership and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2340</td>
<td>Data Analysis &amp; Decision Making</td>
<td>3 cr</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 2410</td>
<td>Interpretation of Bus &amp; Econ. Data</td>
<td>3 cr</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1830</td>
<td>Elementary Statistics</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2630</td>
<td>Introduction to Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3030</td>
<td>Human Resource Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3130</td>
<td>Legal Environment of Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3140</td>
<td>Managerial Law</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3620</td>
<td>Corporate Finance</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 4840</td>
<td>Business Policy and Strategy</td>
<td>3 cr</td>
</tr>
<tr>
<td>Excel Competency</td>
<td></td>
<td>0 cr</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COSC 1830</td>
<td>Microcomputer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC 2130</td>
<td>Principles of Macroeconomics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

(These may be counted as a social science requirement)
ECONOMIC 2230 Principles of Microeconomics 3 cr
    (may be counted as a social science requirement)
MEDIA 3010 Business Communication 3 cr
    Or
ENGL 3000 Technical Writing 3 cr
MATH2630 Calculus with Applications or higher
SPEECH 1010 Public Speaking 2 cr

**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. At least 40 percent of a student’s total credits at UW-Platteville must be in areas outside of accounting and business.
2. Students must have a G.P.A. of 2.50 or better in courses required in the major.
3. Satisfactory completion of an approved accounting or business internship is required.
4. 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 Global Business 3 cr
    (meets international requirement in general education)
- BUSADMIN 2100 Supply Chain Management 3 cr
- BUSADMIN 2330 Leadership and Management 3 cr
- BUSADMIN 2340 Data Analysis & Decision Making 3 cr
- Or
- ECON 2410 Interpretation of Bus. & Economic Data 3 cr
- Or
- 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
- Or
- ACCT 4990 Internship 3 cr

**Finance Emphasis (15 credits)**

**Required Courses (3 credits):**

- BUSADMIN 4030 Financial Decision Making 3 cr

**Electives (12 credits):**

- BUSADMIN 3640 Financial Systems Analysis 3 cr
- BUSADMIN 3650 International Finance 3 cr
- BUSADMIN 3710 Commercial Bank Management 3 cr
- BUSADMIN 3930 Investments 3 cr
- BUSADMIN 4130 Security Analysis 3 cr

**Human Resource Management Emphasis (15 credits)**

**Required Courses (6 credits):**

- BUSADMIN 3100 Compensation Management 3 cr
- BUSADMIN 4200 Employee Recruitment and Selection 3 cr

**Electives (9 credits):**

- BUSADMIN 3340 Management, Gender and Race 3 cr
    (meets GE gender and race requirement)
- BUSADMIN 3450 Employment Law 3 cr
- BUSADMIN 3500 Employee Training and Development 3 cr
- BUSADMIN 3540 Quality Management 3 cr
- BUSADMIN 4330 Labor Management Relations 3 cr
- INDUSTDY 2710 Principles of Industrial Safety 3 cr
- INDUSTDY 3610 Safety and Worker Compensation Laws 3 cr

**Management Emphasis (variable credits)**

**Required Courses (9 credits):**

- BUSADMIN 3530 Organizational Behavior 3 cr
- BUSADMIN 3540 Quality Management 3 cr
    Or
- BUSADMIN 3600 Regulatory Compliance Management 3 cr
    BUSADMIN 4140 International Management 3 cr
    And
    Another Business Administration emphasis or any university major or minor

A maximum of 6 credits from another emphasis or minor may be applied to this emphasis.
Sales and Marketing Communications Emphasis (15 credits)

Required Courses (6 credits):
- BUSADMIN 3700 Marketing Research 3 cr
- BUSADMIN 4630 Marketing Management 3 cr

OPTIONS: Select one of the two options. Each area has a required course.

(A) Integrated Marketing (9 credits):
- BUSADMIN 3630 Advertising (required) 3 cr
- BUSADMIN 3110 Integrated Marketing 3 cr
- BUSADMIN 3120 Retailing 3 cr
- 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
- MEDIA 1360 Public Relations Principles 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
- SPEECH 3250 Interpersonal Communication 3 cr
- SPEECH 3500 Persuasion and Argumentation 3 cr

International Business Emphasis (variable credits)

Required Courses:
- BUSADMIN 3720 International Marketing 3 cr
- BUSADMIN 4140 International Management 3 cr
- BUSADMIN 3650 International Finance 3 cr
- POLISCI 1330 International Relations 3 cr

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):
- ACCT 3450 Strategic Cost Management 3 cr
- BUSADMIN 3540 Quality Management 3 cr
- INDUSTDY 4940 Quality Assurance 3 cr
- BUSADMIN 4140 International Management 3 cr
- BUSADMIN 4160 Purchasing Management 3 cr
- INDUSTDY 4900 Work Measurement and Human Factors 3 cr

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 3400 Personal Financial Planning
- BUSADMIN 3430 Risk Management
- BUSADMIN 3150 Principles of Real Estate
- BUSADMIN 3230 Small Business Management

Additional Requirements for Business Administration Degree:
1. At least 40 percent of a student’s total credits at UW-Platteville must be in areas outside of accounting and business.
2. Students must have G.P.A.s of 2.50 in all courses required for the business administration major.
3. 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
- AGINDUS 2430 Agricultural Marketing 3 cr
- AGSCI 2030 Introduction to Food Service 3 cr
- BUSADMIN 3740 Consumer Behavior 3 cr
- BUSADMIN 4990 Internship (in food-related area) 3 cr
- AGINDUS 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
- AGINDUS 3410 Agricultural Consulting and Sales 3 cr
- BUSADMIN 4630 Marketing Management 3 cr
- AGINDUS 4330 Agribusiness Marketing Managements 3 cr
- AGINDUS 2500 Producer and Consumer Cooperatives 3 cr
- AGSCI 3040 Principles of Meat Science 3 cr
- AGSCI 3010 Dairy Product Analysis and Processing 3 cr
- AGSCI 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
- BUSADMIN #### Electives 12 cr

(Electives must have the BUSADMIN prefix. BUSADMIN 4990 Internship cannot be used as an elective.)

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

And either
- BUSADMIN 3740 Consumer Behavior 3 cr
Or
- BUSADMIN 3120 Retailing 3 cr

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:
- B.J. Reed
- Rob Snyder

Associate Professor:
- Mary Rose Williams
- Steve Yunck

Assistant Professors:
- Hao Chen
- Steve Swope

Academic Department Associate:
- Becky Troy

Minors
- 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.

Majors
- Media Studies
  - Integrated Media Emphasis
  - Journalism Emphasis
  - Photography & Web Development Emphasis
  - Public Relations Emphasis
  - Video and Audio Production Emphasis
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: integrated media, journalism, photography and web development, public relations or video and audio production. Opportunities for student involvement include Pioneer TV, WSUP Radio, the Exponent, Christmas Telethon for Wisconsin Badger Camp, 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
- 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
- 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, integrated media, 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 five 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):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA</td>
<td>1030 Media Technologies I - 1 cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Image Manipulation</td>
<td></td>
</tr>
<tr>
<td>MEDIA</td>
<td>1110 Media Technologies II - Video 1 cr</td>
<td></td>
</tr>
<tr>
<td>MEDIA</td>
<td>1130 Media Technologies III - Web 1 cr</td>
<td></td>
</tr>
<tr>
<td>MEDIA</td>
<td>1230 Visual Communication 3 cr</td>
<td></td>
</tr>
<tr>
<td>MEDIA</td>
<td>1630 Introduction to Mass Media 3 cr</td>
<td></td>
</tr>
<tr>
<td>MEDIA</td>
<td>3930 Communication Law 3 cr</td>
<td></td>
</tr>
<tr>
<td>MEDIA</td>
<td>4990 Communication Internship 3 cr</td>
<td></td>
</tr>
</tbody>
</table>

**Integrated Media Emphasis**

This emphasis requires an individualized plan prepared by the student, advisor and department chair. The plan is initiated when the student selects the emphasis. The integrated media plan should designate the following: 21 credits in media studies courses selected from two or more of the existing emphases areas, under required courses and 24 credits from any other emphasis, under required or elective courses.
Journalism Emphasis

Required Courses (19 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</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>or</td>
<td>MEDIA 3830</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 4140</td>
<td>U.S. Investigative Journalism</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3000+</td>
<td>Any upper division POLISCI course</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

* 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):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA XXXX</td>
<td>Any additional software courses</td>
<td>2 cr</td>
</tr>
<tr>
<td>MEDIA 2050</td>
<td>Writing for Electronic Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2090</td>
<td>Web Development Basic</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3100</td>
<td>Topics in Communication</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>MEDIA 3120</td>
<td>Applied Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3560</td>
<td>Digital Journalism Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3580</td>
<td>Documentary</td>
<td>3 cr</td>
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<tr>
<td>MEDIA 3770</td>
<td>Theories of Media &amp; Culture</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 4030</td>
<td>Applied Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3360</td>
<td>Magazine Writing and Editing</td>
<td>3 cr</td>
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<tr>
<td>ENGLISH 3940</td>
<td>Grammar in Context</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

* These courses are repeatable, up to nine credits applied to the major; may not be double counted between emphasis requirements and electives.

Photography and Web Development Emphasis

Required Courses (21 credits)

Any three software courses

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>MEDIA 1050</td>
<td>Software: Illustrator Basic*</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1100</td>
<td>Software: Flash Basic*</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1140</td>
<td>Software: Integrated Design*</td>
<td>1 cr</td>
</tr>
<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 2090</td>
<td>Web Development Basic</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3030</td>
<td>Multimedia Projects</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3100</td>
<td>Topics in Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3500</td>
<td>Photography II</td>
<td>3 cr</td>
</tr>
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Student will choose one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<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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<tr>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>MEDIA 3100</td>
<td>Topics In Communication**</td>
<td>1-3 cr</td>
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<tr>
<td>MEDIA 3120</td>
<td>Applied Communication**</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3580</td>
<td>Documentary</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3770</td>
<td>Theories of Media &amp; Culture</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 4030</td>
<td>Applied Communication**</td>
<td>3 cr</td>
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<tr>
<td>MEDIA 4710</td>
<td>Independent Study</td>
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<td>ART 1010</td>
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<tr>
<td>ART 1420</td>
<td>Basic Design I: 2-D</td>
<td>2 cr</td>
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<tr>
<td>ART 2140</td>
<td>Art History I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2710</td>
<td>Graphic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2740</td>
<td>Graphic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 3220</td>
<td>Printmaking</td>
<td>3 cr</td>
</tr>
<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>
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** Repeatable if different topics
*** Repeatable up to nine credits

Public Relations Emphasis

Required Courses (21 credits):

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credit Hours</th>
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</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</td>
<td>MEDIA 2050</td>
<td>3 cr</td>
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Choose two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</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 Code</th>
<th>Course Title</th>
<th>Credit Hours</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>
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</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 Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ART 2710</td>
<td>Graphic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2740</td>
<td>Graphic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 3220</td>
<td>Printmaking</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 2250</td>
<td>Intro to Film</td>
<td>3 cr</td>
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<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>
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<td>MUS 1030</td>
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<td>3 cr</td>
</tr>
<tr>
<td>THEAT 1230</td>
<td>Stagecraft</td>
<td>3 cr</td>
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<td>ART 2710</td>
<td>Graphic Design I</td>
<td>3 cr</td>
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<tr>
<td>ART 2740</td>
<td>Graphic Design II</td>
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<td>MUS 1030</td>
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<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

ART 2710 | Graphic Design I | 3 cr
ART 2740 | Graphic Design II | 3 cr
ART 3220 | Printmaking | 3 cr
ENGL 2250 | Intro to Film | 3 cr
ENGL 3950 | Writing for Performance | 3 cr
COSC 1130 | Intro to Programming | 3 cr
COSC 2430 | Object-Oriented Programming | 3 cr
MUS 1030 | Intro to Music History | 3 cr
THEAT 1230 | Stagecraft | 3 cr

** Repeatable if different topics
*** Repeatable up to nine credits

Public Relations Emphasis

Required Courses (21 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>MEDIA 1360</td>
<td>Public Relations Principles</td>
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</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</td>
<td>MEDIA 2050</td>
<td>3 cr</td>
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</table>

Choose two of the following:

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<tr>
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</thead>
<tbody>
<tr>
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<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>
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Choose two of the following:

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>MEDIA 3800</td>
<td>Meetings and Events*</td>
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</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 Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>MEDIA XXXX</td>
<td>Any MEDIA course***</td>
<td>1-24 cr</td>
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<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):**

- MEDIA 2470  Production Foundations  3 cr
- MEDIA 2530  Digital Audio Production  3 cr
- MEDIA 3120  Applied Communication**  3 cr
- MEDIA 3240  Studio Production  3 cr
- MEDIA 4030  Applied Communication**  3 cr

**One set of courses from:**

- MEDIA 2030  Basic Newswriting and Reporting*  3 cr
- MEDIA 3560  Digital Journalism Production*  3 cr

or

- MEDIA 2050  Writing for Electronic Media*  3 cr
- MEDIA 3840  Production Capstone*  3 cr

* 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):**

- MEDIA  Any MEDIA course not in core or emphasis requirements.
- BUSADMIN 2630  Introduction to Marketing  3 cr
- BUSADMIN 3630  Advertising  3 cr

Minors

**Imaging Media Minor (24 credits)**

- MEDIA  XXXX  Software: Any six courses  6 cr
- MEDIA 1230  Visual Communication  3 cr
- MEDIA 1630  Introduction to Mass Media*  3 cr
- MEDIA 1930  Basic Photography  3 cr

**Concentration (Select one of the following sets):**

**New Media Concentration**

- MEDIA 2090  Web Development Basic  3 cr
- MEDIA 3030  Multimedia Projects  3 cr

**Photography Concentration**

- MEDIA 3500  Photography II  3 cr
- MEDIA 4500  Photography III  3 cr

* Communication technologies majors must select a substitute course from the list of electives for the imaging media emphasis.

**Journalism Minor (24 credits)**

**Required Courses (13 credits):**

- MEDIA 1160  Software: InDesign Basic  1 cr
- MEDIA 1930  Basic Photography  3 cr
- MEDIA 2030  Basic Newswriting and Reporting  3 cr
- MEDIA 3730  Project Writing and Reporting  3 cr
- MEDIA 3830  Editing for Print  3 cr

**Electives (Select at least 11 credits):**

- MEDIA 1230  Visual Communication  3 cr
- MEDIA 2030  Writing for Electronic Media  3 cr
- MEDIA 3770  Theories of Media and Culture  3 cr
- MEDIA 3930  Communication Law*  3 cr
- MEDIA 4140  U.S. Investigative Journalism  3 cr
- ENGLISH 3360  Magazine Writing and Editing  3 cr
- ENGLISH 3940  Grammar in Context  3 cr
- POLISCI  XXXX  Any POLISCI upper division course  3 cr

* Media Studies majors may not double count core requirements with minor requirements or electives; select any other minor elective as a substitute.

**Photography Minor (24 credits)**

**Required Courses (18 credits):**

- MEDIA 1030  Media Technologies I (Image Manipulation)  1 cr
- MEDIA 1110  Media Technologies II (Video)  1 cr
- MEDIA 1130  Media Technologies III (Web)  1 cr
- MEDIA 1230  Visual Communication  3 cr
- MEDIA 1930  Basic Photography  3 cr
- MEDIA 3500  Photography II  3 cr
- MEDIA 3590  Social Media & Society  3 cr
- MEDIA 4500  Photography III  3 cr

**ART Electives (6 credits - Select two of the following):**

- ART 1010  Drawing I: Basic Drawing  3 cr
- ART 1420  Basic Design I: 2-D  3 cr
- ART 1630  Lettering and Typographical Design  3 cr
- ART 2430  Art Survey  3 cr
- ART 4230  Theory of Art  3 cr

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):**

- MEDIA 1360  Public Relations Principles  3 cr

Choose one (3 credits) from the following:

- MEDIA 2030  Basic Newswriting and Reporting  3 cr
- MEDIA 2050  Writing for Electronic Media  3 cr

**Two courses (6 credits) from:**

- MEDIA 3800  Meetings and Events  3 cr
- MEDIA 3860  Media Advertising and Sales  3 cr
- MEDIA 4270  Volunteers, Fundraising and Grants  3 cr

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>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MEDIA 1030</td>
<td>Media Technologies I</td>
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<tr>
<td>MEDIA 1110</td>
<td>Media Technologies II (Video)</td>
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<td>MEDIA 1130</td>
<td>Media Technologies III (Web)</td>
<td>1 cr</td>
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<tr>
<td>MEDIA 1630</td>
<td>Intro to Mass Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 1360</td>
<td>PR Principles</td>
<td>3 cr</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUSINESS 2630</td>
<td>Intro to Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3120</td>
<td>Applied Communication **</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3590</td>
<td>Social Media and Society</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3930</td>
<td>Communication Law</td>
<td>3 cr</td>
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**Hands-On Elective (3 credits)**

<table>
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<tr>
<td>MEDIA 1930</td>
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<tr>
<td>MEDIA 2030</td>
<td>Basic Newswriting and Reporting*</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 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 3030</td>
<td>Multimedia Projects*</td>
<td>3 cr</td>
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</table>

**Theoretical Elective (3 credits)**

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<td>MEDIA 2090</td>
<td>Web Development Basic*</td>
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<tr>
<td>MEDIA 3100</td>
<td>Topics in Communication</td>
<td>3 cr</td>
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<tr>
<td>MEDIA 3150</td>
<td>Communication Research</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3200</td>
<td>Gender and Popular Culture</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3580</td>
<td>Documentary</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3770</td>
<td>Theories of Media and Culture</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3860</td>
<td>Media Advertising and Sales</td>
<td>3 cr</td>
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*Media Studies majors may not double count their emphasis requirements with Social Media minor electives.

**Video and Audio Production Minor (24 credits)**

**Required Courses (15 credits):**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MEDIA 1030</td>
<td>Media Technologies I</td>
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</tr>
<tr>
<td>MEDIA 1110</td>
<td>Media Technologies II (Video)*</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1130</td>
<td>Media Technologies III (Web)*</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1630</td>
<td>Intro to Mass Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2470</td>
<td>Production Foundations</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2530</td>
<td>Audio Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3120</td>
<td>Applied Communication</td>
<td>3 cr</td>
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**Electives (9 credits):**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MEDIA 2050</td>
<td>Writing for Electronic Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2090</td>
<td>Web Development Basic</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3030</td>
<td>Multimedia Projects</td>
<td>3 cr</td>
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<tr>
<td>MEDIA 3240</td>
<td>Studio Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3560</td>
<td>Digital Journalism Production</td>
<td>3 cr</td>
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<tr>
<td>MEDIA 3580</td>
<td>Documentary</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3660</td>
<td>Performance for Electronic Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3840</td>
<td>Production Capstone</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 3930</td>
<td>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>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MEDIA 1030</td>
<td>Media Technologies I</td>
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<tr>
<td>MEDIA 1110</td>
<td>Media Technologies II (Video)*</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1130</td>
<td>Media Technologies III (Web)*</td>
<td>1 cr</td>
</tr>
<tr>
<td>MEDIA 1230</td>
<td>Visual Communication*</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 2090</td>
<td>Web Development: Basic</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3030</td>
<td>Multimedia Projects</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3090</td>
<td>Web Development: Intermediate</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3100</td>
<td>Topics in Communication</td>
<td>3 cr</td>
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**Choose any two of the following courses (6 credits):**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 1010</td>
<td>Drawing I: Basic Drawing</td>
<td>3 cr</td>
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<tr>
<td>ART 1420</td>
<td>Basic Design I: 2-D</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1630</td>
<td>Lettering on Typographical Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 1130</td>
<td>Intro to Programming</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.*
DEPARTMENT OF INDUSTRIAL STUDIES

www.uwplatt.edu/IND_STUDIES

Department Chair: Colleen Kaiser
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Phone: 608.342.1246
E-mail: indschair@uwplatt.edu

Professors:
Colleen Kaiser
Kyle Metzloff
Warner Smidt
Francis X. Steck
Majid Tabrizi

Senior Lecturer:
David Heimerdinger

Lab Manager:
Rick Zach

Academic Department Associate:
Cindy Vondra

Associate Professor:
Mark Albers

Assistant Professors:
Ryan Novak
Eric Rimel
Billy Huang

Majors
Technology Education
Industrial Technology Management
• Building Construction Management Emphasis
• Building Construction Safety Management Emphasis
• Manufacturing Technology Management Emphasis
• Occupational Safety Management Emphasis

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

About the Department and Major
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 emphasis in Building Construction Management prepares graduates to enter middle management positions in the construction industry as project managers, estimators, schedulers and in supervision.

The emphasis in Building Construction Safety Management prepares students to enter the construction industry as safety directors, safety managers, safety trainers and consultants.

The emphasis in Manufacturing Technology Management prepares graduates to enter the 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 schools in the nation.

The emphasis in Occupational Safety Management prepares graduates to enter manufacturing and construction industries, 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:

Option A (8 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<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>
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<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>
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Option B (12 credits):

<table>
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<td>TEACHING 4990</td>
<td>Licensure Portfolio</td>
<td>3 cr</td>
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<tr>
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Option C (18 credits):

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<td>TEACHING 4990</td>
<td>Licensure Portfolio</td>
<td>3 cr</td>
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<tr>
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<td>Planning Cooperative Education in Agriculture</td>
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or

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<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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Option A (8 credits):

<table>
<thead>
<tr>
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<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 Transescents</td>
<td>2 cr</td>
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Option B (12 credits):

<table>
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<tbody>
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<td>Educational Media Technology</td>
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<tr>
<td>TEACHING 4210</td>
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<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 Transescents</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 4220</td>
<td>Advising Interaction and Communication</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 4620</td>
<td>Teaching Transescents</td>
<td>2 cr</td>
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Option C (18 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TEACHING 4050</td>
<td>Middle Level Professional Preparation Seminar</td>
<td>18 cr</td>
</tr>
</tbody>
</table>
Technology Education Major (36 credits) G.P.A. 2.75 or better

Required (27 credits):

- MEDIA 1230 Visual Communication 3 cr
- or
- MEDIA 1930 Basic Photography 3 cr
- or
- 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
Coursework in the major includes core courses and a choice of four emphases: building construction management, building construction safety management, manufacturing technology management or occupational safety management.

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
- CHEMSTRY 1050 General Chemistry 5 cr

(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 4 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
- 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

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 4990 Industrial Studies Internship 1-5 cr
Building Construction Safety Management Emphasis (64 credits)

**Construction concentration – 28 credits required**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>INDUSTDY 1130</td>
<td>Wood Technology</td>
<td>3 cr</td>
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<tr>
<td>INDUSTDY 1260</td>
<td>Building Construction Drafting</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 2430</td>
<td>Building Construction Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 3140</td>
<td>General Construction Estimating</td>
<td>4 cr</td>
</tr>
<tr>
<td>INDUSTDY 3210</td>
<td>Construction Laboratory</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 3220</td>
<td>Construction Procedures</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4630</td>
<td>Building Systems Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4840</td>
<td>Construction Administration</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4960</td>
<td>Commercial Building, Planning and Construction</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Safety concentration – 24 credits required**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BUSADMIN 3430</td>
<td>Risk Management</td>
<td>3 cr</td>
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<tr>
<td>INDUSTDY 3180</td>
<td>Construction Safety Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 3590</td>
<td>Industrial Hygiene Technology</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 3610</td>
<td>Safety and Worker Compensation Laws</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4040</td>
<td>Environmental Safety Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4770</td>
<td>Loss Control Safety Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4780</td>
<td>Ergonomics in the Workplace</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4790</td>
<td>Safety Management Components</td>
<td>3 cr</td>
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</tbody>
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**Technical electives – 12 credits required**

(Must take at least three credits of BUSADMIN)

<table>
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<tbody>
<tr>
<td>BUSADMIN 2330</td>
<td>Leadership and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3030</td>
<td>Human Resource Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3130</td>
<td>The Legal Environment of Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3000</td>
<td>Technical Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3010</td>
<td>Business Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 3810</td>
<td>Alcohol and Other Drugs as Related to Safety</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4020</td>
<td>Topics in Industrial Studies</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4750</td>
<td>Disaster Preparedness</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4810</td>
<td>Fire Protection</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4970</td>
<td>Independent Study</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4990</td>
<td>Industrial Studies Internship</td>
<td>1-5 cr</td>
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</table>

Select individual courses and/or a minor to complete the degree.

Required Technical Core Courses (21 credits):

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>INDUSTDY 1200</td>
<td>AC/DC Fundamentals</td>
<td>3 cr</td>
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<tr>
<td>INDUSTDY 1230</td>
<td>Technical Drafting</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 1130</td>
<td>Introduction to Programming</td>
<td>3 cr</td>
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<td>COMPUTER 1830</td>
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<tr>
<td>INDUSTDY 1830</td>
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Electives:

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<tbody>
<tr>
<td>INDUSTDY 4990</td>
<td>Industrial Studies Internship</td>
<td>1-5 cr</td>
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</tbody>
</table>

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

Required Professional Concentration Courses (18 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY 1030</td>
<td>Introduction to Manufacturing</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 1830</td>
<td>Microcomputer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2330</td>
<td>Leadership &amp; Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3000</td>
<td>Technical Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3010</td>
<td>Business Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3030</td>
<td>Human Resource Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 2630</td>
<td>Private Security Operations</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Required Safety Concentration Courses (18 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY 3590</td>
<td>Industrial Hygiene Technology</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 3610</td>
<td>Safety Worker Compensation Laws</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4040</td>
<td>Environmental Safety Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4770</td>
<td>Loss Control Safety Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4780</td>
<td>Ergonomics in the Workplace</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4790</td>
<td>Safety Management Components</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Technology Lab Classes (3 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY 1200</td>
<td>AC/DC Fundamentals</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 1230</td>
<td>Technical Drafting</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 1430</td>
<td>Introduction to Metals Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 1530</td>
<td>Power Systems Technology</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 1830</td>
<td>Synthetic and Composite Materials</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Technical Electives (15 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 3430</td>
<td>Risk Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 2930</td>
<td>Interviewing</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 3180</td>
<td>Construction Safety Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 3810</td>
<td>Alcohol and Other Drugs as Related to Safety</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4020</td>
<td>Topics in Industrial Studies</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4480</td>
<td>Industrial Robotics</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4750</td>
<td>Disaster Preparedness</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4810</td>
<td>Fire Protection</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4950</td>
<td>Production Planning and Control</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4990</td>
<td>Industrial Studies Internship</td>
<td>1-5 cr</td>
</tr>
</tbody>
</table>

Select individual courses and/or a university minor in consultation with an advisor to complete the degree.

Manufacturing Technology Management Emphasis (60 credits)

www.uwplatt.edu/ind_studies/itm.html

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):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY 1030</td>
<td>Introduction to Manufacturing</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 3460</td>
<td>3D Industrial Production Drafting</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4480</td>
<td>Industrial Robotics</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4900</td>
<td>Work Measurement and Human Factors</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4940</td>
<td>Quality Assurance</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 4950</td>
<td>Production Planning and Control</td>
<td>3 cr</td>
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</tbody>
</table>

Required Technical Core Courses (21 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY 1200</td>
<td>AC/DC Fundamentals</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 1230</td>
<td>Technical Drafting</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 1130</td>
<td>Introduction to Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 1830</td>
<td>Microcomputer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 1430</td>
<td>Introduction to Metals Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 1530</td>
<td>Power Systems Technology</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 1830</td>
<td>Synthetic and Composite Materials</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY 4990</td>
<td>Industrial Studies Internship</td>
<td>1-5 cr</td>
</tr>
</tbody>
</table>

Select individual courses and/or a university minor in consultation with an advisor to complete the degree.
# Technical Minors

## Building Construction Management Minor (24 credits)

### Required Courses

*if not completed as part of the major* (6 credits):
- INDUSTDY 1260 Building Construction Drafting 3 cr
- INDUSTDY 2710 Principles of Safety 3 cr

### Required Courses (10 credits):
- INDUSTDY 2430 Building Construction Materials 3 cr
- INDUSTDY 3140 General Construction Estimating 4 cr
- INDUSTDY 3220 Construction Procedures 3 cr

### Electives (8 credits):
- INDUSTDY 4020 Topics in Industrial Studies 1-3 cr
- INDUSTDY 4530 Residential Planning and Design 3 cr
- INDUSTDY 4630 Construction Administration 3 cr
- INDUSTDY 4960 Commercial Building Planning and Construction Techniques 3 cr

## Computer Integrated Manufacturing Minor (27 credits)

### Required Courses

*if not completed as part of the major* (9 credits):
- INDUSTDY 1030 Introduction to Manufacturing 3 cr
- INDUSTDY 1430 Introduction to Metals Processes 3 cr
- INDUSTDY 1530 Power Systems Technology 3 cr

### Required Courses (9 credits):
- INDUSTDY 3160 Machining and CNC Programming 3 cr
- INDUSTDY 3460 3D Industrial Production Drafting 3 cr
- INDUSTDY 3560 Industrial Control Systems 3 cr

### Electives (at least 9 credits):
- 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 4480 Industrial Robotics 3 cr

## Drafting and Product Development Technology Minor (30 credits)

### Required Courses

*if not completed as part of the major* (12 credits):
- INDUSTDY 1030 Introduction to Manufacturing 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 1830 Synthetic and Composite Materials 3 cr

### Required Courses (9 credits):
- INDUSTDY 3460 3D Industrial Production Drafting 3 cr
- INDUSTDY 3950 Industrial Design for Production 3 cr
- INDUSTDY 4360 Specialized Drafting Practices 3 cr

### Electives (9 credits):
- INDUSTDY 2910 Plastics Technology 3 cr
- BUSADMIN 3130 The Legal Environment of Business 3 cr
- INDUSTDY 3160 Machining and CNC Programming 3 cr
- INDUSTDY 3940 Materials Testing and Evaluation 3 cr
- INDUSTDY 4020 Topics in Industrial Studies 1-3 cr
- INDUSTDY 4780 Ergonomics in the Workplace 3 cr
- INDUSTDY 4850 Thermoforming Technology 3 cr
- INDUSTDY 4860 Injection Molding Technology 3 cr
- INDUSTDY 4870 Extrusion Technology 3 cr

## Industrial Control Systems Technology Minor (24 credits)

### Required Courses

*if not completed as part of the major* (6 credits):
- INDUSTDY 1200 AC/DC Fundamentals 3 cr
- INDUSTDY 1530 Power Systems Technology 3 cr

### Required Courses (12 credits):
- INDUSTDY 2260 Semiconductors 3 cr
- INDUSTDY 3230 Digital Electronics 3 cr
- INDUSTDY 3550 Fluid Power and Servo Systems 3 cr
- INDUSTDY 3560 Industrial Control Systems 3 cr

### Electives (at least 6 credits):
- COMPUTER 1430 Programming in C++ 3 cr
- INDUSTDY 3160 Machining and CNC Programming 3 cr
- INDUSTDY 4020 Topics in Industrial Studies 1-3 cr
- INDUSTDY 4030 Electrical Power 3 cr
- INDUSTDY 4130 Industrial Laser Applications 3 cr
- INDUSTDY 4480 Industrial Robotics 3 cr

## Metals Processing Technology Minor (27 credits)

### Required Courses

*if not completed as part of the major* (9 credits):
- INDUSTDY 1030 Introduction to Manufacturing 3 cr
- INDUSTDY 1430 Introduction to Metals Processes 3 cr
- INDUSTDY 1830 Synthetic and Composite Materials 3 cr

### Required Courses (9 credits):
- INDUSTDY 3150 Polymeric and Ceramic Materials 3 cr
- INDUSTDY 3310 Metallurgy and Joining Processes 3 cr
- INDUSTDY 3460 3D Industrial Production Drafting 3 cr

### 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
- 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
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 GE 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 reassigned 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 Women in Engineering, Mathematics and Science Program
www.uwplatt.edu/wep

Senior Director: Tammy J. Salmon-Stephens
Office: 171B Ottensman Hall
Phone: 608.342.1563
E-mail: salmont@uwplatt.edu

Special Programs Managers:
Jaclyn Esqueda
Office: 171A Ottensman Hall
Phone: 608.342.7158
E-mail: esquedaj@uwplatt.edu

Kimberly Sargent
Office: 172 Ottensman Hall
Phone: 608.342.7137
E-mail: sargentki@uwplatt.edu

Robert Stuewer
Office: 173 Ottensman Hall
Phone: 608.342.7155
E-mail: stuewerr@uwplatt.edu

Vision
The Women in EMS Program at UW-Platteville will educate and engage students, parents, and all educators on gender diversity in the science, technology, engineering and mathematics (STEM) fields in order to create a more diverse, competitive, and balanced workforce.

Mission
Create a supportive community where women prosper.

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.
- Collegiate Section of the Society of Women Engineers
- The Women in Engineering, Mathematics and Science (EMS) Mentor Program and Mentor Center
- Memorial and merit-based scholarships
- Two Living and Learning communities for Women in Science, Technology, Engineering and Mathematics (STEM)
- Women in Science and Engineering (WMSTD 2730) class
- 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, Laotion, 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.
- Manage federal and private grant funds(STEM Scholars, College of Menominee Nations, 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.

The Engineering, Mathematics and Science Advising Office

Senior Director: Tammy J. Salmon-Stephens
Office: 171B Ottensman Hall
Phone: 608.342.1563
E-mail: salmont@uwplatt.edu

Special Programs Managers:
Jaclyn Esqueda
Office: 171A Ottensman Hall
Phone: 608.342.7158
E-mail: esquedaj@uwplatt.edu

Kimberly Sargent
Office: 172 Ottensman Hall
Phone: 608.342.7137
E-mail: sargentki@uwplatt.edu

Robert Stuewer
Office: 173 Ottensman Hall
Phone: 608.342.7155
E-mail: stuewerr@uwplatt.edu

Vision
The College of Engineering, Mathematics and Science (EMS) Advising Office at UW-Platteville provides supplemental, student-focused advising that centers on building an inclusive community with enhanced understanding of and commitment to lifelong learning, communication, and collaboration.

Mission
Provide supplemental academic advice, skill-building and support to encourage degree progression and ensure student well being.

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
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

Assistant Professors:
Raja Annamalai
Soma Chattopadhyay
Joseph Wu

Lecturers:
Roger Gurira
Bruna Pelucchi
Kim Pulkrabek
Scott Sandholm
Holly Ziobro

Chemistry Laboratory Manager:
Kari Frederick

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 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 Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 1140</td>
<td>General Chemistry I</td>
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</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>
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</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 or 4660, or CRIMLJUS 4880</td>
<td>1-8 cr</td>
<td></td>
</tr>
</tbody>
</table>

* not required for the criminalistics emphasis-DNA track major

Required Supporting Courses from Math and Physics

<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>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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</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>

Plus one additional two-credit course selected from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 4000</td>
<td>Undergraduate Research</td>
<td>2 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4730</td>
<td>Advanced Inorganic Chemistry</td>
<td>2 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4810</td>
<td>Advanced Topics in Organic Chemistry</td>
<td>2 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4820</td>
<td>Advanced Topics in Physical Chemistry</td>
<td>2 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4830</td>
<td>Biochemistry Topics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Study of a foreign language is recommended for students who plan to pursue graduate studies. In addition, substitution of calculus-based PHYSICS 2240/2340 in place of algebra-based PHYSICS 1350/1450 is strongly encouraged for ACS chemistry majors.

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>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</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 Code</th>
<th>Course 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 Code</th>
<th>Course 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 Code</th>
<th>Course 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:

- CHEMSTRY 4830 Biochemistry Topics 3 cr
- CHEMSTRY 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:

- CHEMSTRY 1140 General Chemistry I 4 cr
- CHEMSTRY 1240 General Chemistry II 4 cr
  or
- CHEMSTRY 1450 Chemistry for Engineers 5 cr
  and 16-19 credits (to achieve 24 credits total) of chemistry courses higher than CHEMSTRY 2000, which must include four credits of chemistry laboratory experience.

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

www.uwplatt.edu/ce

Contact: Mark S. Meyers, P.E.
Office: 141 Ottensman Hall
Phone: 608.342.1543
E-mail: meyersm@uwplatt.edu

University of Wisconsin Platteville’s 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 through senior year to collect information, analyze data and develop plans for projects. Civil engineers plan, design and supervise construction of facilities that serve people. These facilities include 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

www.uwplatt.edu/cee

Contact: Mark S. Meyers, P.E.
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Phone: 608.342.1543
E-mail: meyersm@uwplatt.edu

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 engineering.
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. Our graduates are technically skilled in math and science. They skillfully apply math (calculus and differential equations) and science (calculus-based physics, chemistry and one additional area of science) to solve engineering problems.
2. Our graduates are technically skilled in civil and environmental engineering. They can solve civil and environmental engineering problems in four or more emphasis areas. 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 civil and 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 I: 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</td>
<td>2640</td>
<td>Calculus and Analytic Geometry I</td>
</tr>
<tr>
<td>MATH</td>
<td>2740</td>
<td>Calculus and Analytic Geometry II</td>
</tr>
<tr>
<td>MATH</td>
<td>2840</td>
<td>Calculus and Analytic Geometry III</td>
</tr>
<tr>
<td>MATH</td>
<td>3630</td>
<td>Differential Equations I</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>4030</td>
<td>Statistical Methods</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>1450</td>
<td>Chemistry for Engineers</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>2240</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>2340</td>
<td>General Physics II</td>
</tr>
<tr>
<td>GEOLOGY</td>
<td>3130</td>
<td>Engineering Geology</td>
</tr>
<tr>
<td>GENENG</td>
<td>1000</td>
<td>Engineering Success Skills</td>
</tr>
<tr>
<td>GENENG</td>
<td>1030</td>
<td>Introduction to Engineering Projects</td>
</tr>
<tr>
<td>GENENG</td>
<td>1320</td>
<td>Engineering Computer Graphics</td>
</tr>
<tr>
<td>GENENG</td>
<td>2820</td>
<td>Engineering Economy</td>
</tr>
<tr>
<td>CIVILENG</td>
<td>2630</td>
<td>Elements of Surveying</td>
</tr>
<tr>
<td>CIVILENG</td>
<td>2130</td>
<td>Engineering Mechanics - Statics</td>
</tr>
<tr>
<td>CIVILENG</td>
<td>2220</td>
<td>Engineering Mechanics - Dynamics</td>
</tr>
<tr>
<td>CIVILENG</td>
<td>2340</td>
<td>Mechanics of Materials</td>
</tr>
<tr>
<td>CIVILENG</td>
<td>2630</td>
<td>Basic Thermoscience for Engineers</td>
</tr>
<tr>
<td>GENENG</td>
<td>2930</td>
<td>Applications of Electrical Engineering</td>
</tr>
<tr>
<td>CIVILENG</td>
<td>2000</td>
<td>Introduction to Infrastructure</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 4020 Cost and Estimates 3 cr
- CIVILENG 4030 Construction Equipment 2 cr
- CIVILENG 4040 Construction Management 3 cr
- CIVILENG #### Any 4000-level CIVILENG class 6 cr

**Geotechnical Engineering**
- CIVILENG 4160 Foundation Design 3 cr
- CIVILENG 4730 Geotechnical Engineering II 3 cr
- CIVILENG #### Any 4000-level CIVILENG class 8 cr

**Environmental Engineering**
- CIVILENG 4410 Wastewater and Drinking Water Treatment (required) 3 cr
- 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 4440 Stormwater, Wetlands and Watershed Management 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
- 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
- CIVILENG 4550 Traffic Engineering 3 cr
- CIVILENG 4520 Pavement Design 3 cr
- CIVILENG 4560 Pavement Maintenance and Rehab 2 cr
- CIVILENG #### Any 4000-level CIVILENG class 2-3 cr

Environmental Engineering

Contact: Philip J. Parker, P.E.
Office: 131A Ottensman Hall
Phone: 608.342.1235
E-mail: parkerp@uwplatt.edu

University of Wisconsin Platteville’s Environmental Engineering program is accredited under the General Criteria by the Engineering Accreditation Commission of ABET, http://www.abet.org

The UW-Platteville Environmental Engineering Program provides a balance between basic science, engineering science and engineering design. The purpose of the curriculum is to develop in each student a thorough understanding of the underlying environmental principles in the basic sciences along with practical applications in engineering design. Although emphasis is placed upon learning the fundamentals, each student will be encouraged to develop excellent technical and communication skills, become broadly educated and become a productive member of society. The UW-Platteville Environmental Engineering Program is designed to give students a broad background in all areas of environmental engineering. These include water and wastewater treatment, environmental and occupational health, solid waste management, water resources, environmental modeling and environmental chemistry. Practical applications are emphasized with sufficient theory so that the individual can develop innovative solutions as new problems are encountered.

Environmental engineering is the application of scientific and engineering principles to improve and maintain the environment for the protection of human health, nature’s beneficial ecosystems and biodiversity, and for environment-related enhancement of the quality of human life. Through education and experience, environmental engineers develop an understanding of the earth’s biological, chemical, physical and geological systems. They use this information to develop engineering plans for solutions to environmental problems caused by pollution. They also develop pollution prevention plans to keep environmental problems from developing in the first place.

Environmental engineers analyze contaminated streams, lakes, air, soil and groundwater to determine the extent and severity of contamination. These environmental measurements provide the basis for engineers to design treatment and remediation processes to remove and/or degrade pollutants. Environmental scientists and engineers work together with city or county officials, regulatory officials, consultants and nearby residents to achieve a solution to pollution problems.
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 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)

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<tr>
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<td>Chemistry for Engineers</td>
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<td>CHEMSTRY 3130</td>
<td>Environmental Chemistry</td>
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<tr>
<td>CHEMSTRY 3110</td>
<td>Environmental Chemistry Lab</td>
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<td>BIOLOGY 3240</td>
<td>Microbiology</td>
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<td>PHYSICS 2240</td>
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</tr>
<tr>
<td>GEOLOGY 3130</td>
<td>Engineering Geology</td>
<td>3 cr</td>
</tr>
<tr>
<td>or GEOGRPHY 1140</td>
<td>Physical Geology: Geomorphology</td>
<td>3 cr</td>
</tr>
<tr>
<td>or GEOGRPHY 4550</td>
<td>Process Geomorphology</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
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</tr>
<tr>
<td>CIVILENG 2630</td>
<td>Elements of Surveying</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
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
Total for graduation ........................................... 120 credits
General education .......................................... 43-57 credits
Major ............................................................... 67-72 credits

Bachelor of Arts Degree
Total for graduation ........................................... 120 credits
General education .......................................... 43-57 credits
(includes an additional nine credits in upper division coursework in humanities, fine arts or social sciences)
Major ............................................................... 67-72 credits

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 38 credits in computer science (not including COMPUTER 1130, 1830 or 2830) 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
Required Courses (22 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3630</td>
<td>Database Design and Implementation</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3830</td>
<td>Data Communications and Computer Networks</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 4110</td>
<td>Seminar</td>
<td>1 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>ENGLISH 3000</td>
<td>Technical Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2330</td>
<td>Leadership and Management</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>COMPUTER 3000</td>
<td>level and up*</td>
<td></td>
</tr>
<tr>
<td>SOFTWARE 3330</td>
<td>Intermediate Software Engineering</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 4130</td>
<td>Real-Time Embedded Systems</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>
<tr>
<td>ELECTENG 3770</td>
<td>Logic and Digital Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>ELECTENG 3780</td>
<td>Introduction to Microprocessors</td>
<td>3 cr</td>
</tr>
<tr>
<td>*COMPUTER 4830, COMPUTER 4930 and COMPUTER 4990 can be counted only with the consent of the department.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 (33 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 2230</td>
<td>Programming in COBOL OR</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 2340</td>
<td>Programming in VB.NET</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3130</td>
<td>Systems Analysis and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3530</td>
<td>Systems Develop and Implementation</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 4230</td>
<td>Applications in Information Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING 2010</td>
<td>Financial Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING 2020</td>
<td>Management Accounting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 1300</td>
<td>Global Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2630</td>
<td>Introduction to Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3620</td>
<td>Financial Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 4100</td>
<td>Supply Chain Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 1630</td>
<td>Finite Mathematics with Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 2730</td>
<td>Discrete Mathematics</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC 2410</td>
<td>Interpretation of Business and Economic Data</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 1830</td>
<td>Elementary Statistics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 2630</td>
<td>Object Oriented Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3230</td>
<td>Computer Architecture/ Operating Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3340</td>
<td>Windows Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3640</td>
<td>Client/Server Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3870</td>
<td>Web Protocols, Technologies and Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3930</td>
<td>CICS Application Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 2990, COMPUTER 4830, COMPUTER 4930 and COMPUTER 4990</td>
<td>3 cr</td>
<td></td>
</tr>
</tbody>
</table>

Minor in Computer Science (24 credits)
The minor provides sufficient flexibility to complement any major field of study. Completion of the minor is sufficient for a certified teacher to be licensed to teach computer science in Wisconsin.

Required Courses (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</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 3230</td>
<td>Computer Arch Operating Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3630</td>
<td>Database Design and Implementation</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>ELECTENG 3780</td>
<td>Introduction to Microprocessors</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

All required courses must be passed with a C- or better.

Electives (15 credits):
Electives for the minor may be selected from any courses in computer science, software engineering or Electrical Engineering 3770. 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.
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
Yan Shi
Kun Tian

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 various classical and evolving software engineering methods, can select appropriate methods for projects and development teams, and can refine and apply them 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</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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)

SOFTWARE 2730 Introduction to Software Engineering 3 cr
SOFTWARE 3330 Intermediate Software Engineering 3 cr
SOFTWARE 3430 Object-Oriented Analysis and Design 3 cr
SOFTWARE 3730 Software Quality 3 cr
SOFTWARE 3860 Software Maintenance and Reengineering 3 cr
SOFTWARE 4110 Software Engineering Seminar 1 cr
SOFTWARE 4130 Real-time Embedded Systems Programming 3 cr
SOFTWARE 4330 Software Engineering Project I 3 cr
SOFTWARE 4730 Software Engineering Project II 3 cr

Computer Science Required Courses (21-22 credits)

COMPUTER 1430 Programming in C++ 3 cr
COMPUTER 2430 Object-Oriented Programming and Data Structures I 3 cr
COMPUTER 2630 Object-Oriented Programming and Data Structures II 3 cr
COMPUTER 3230 Computer Architecture and Operating Systems 3 cr
COMPUTER 3520 Programming Language Structures 3 cr
COMPUTER 3830 Data Communication and Computer Networks 3 cr
COMPUTER 3030 Artificial Intelligence 3 cr
COMPUTER 3630 Database Design and Implementation 3 cr
COMPUTER 3920 Computer Graphics 3 cr
ELECTENG 4720 Microprocessor Architecture and Interfacing 4 cr

Other Required Courses (11 credits)

GENENG 1000 Engineering Success Skills 1 cr
GENENG 1030 Introduction to Engineering Projects 1 cr
BUSADMIN 2330 Organization and Management 3 cr
ECONOMIC 2130 Principles of Macroeconomics 3 cr
ECONOMIC 2230 Principles of Microeconomics 3 cr
PHLSPHY 2540 Science, Technology and Ethics 3 cr

Application Domain Sequence (12-15 credits)
Select one application domain sequence from:

Digital (12 credits)

ELECTENG 1020 Electrical Engineering Projects and Tools 1 cr
ELECTENG 1210 Circuit Modeling I 3 cr
ELECTENG 3770 Logic and Digital Design 4 cr
ELECTENG 3780 Introduction to Microprocessors 4 cr

Controls Track 1 (15 credits)

ELECTENG 1210 Circuit Modeling I 3 cr
ELECTENG 2210 Circuit Modeling II 4 cr
ELECTENG 2220 Signals and Systems 4 cr
ELECTENG 3320 Automatic Controls 4 cr

Controls Track 2 (15 credits)*

GENENG 2130 Engineering Mechanics-Statics 3 cr
GENENG 2230 Engineering Mechanics-Dynamics 3 cr
GENENG 2930 Applications of Electrical Engineering 3 cr
MECHNCHL 3030 Dynamical Systems 3 cr
MECHNCHL 4330 Automatic Controls 3 cr
* Assumes MATH 3630 is taken as the math elective

Engineering Management (15 credits)**

INDSTENG 3430 Human Factors Engineering 3 cr
INDSTENG 3530 Operations Research I 3 cr
INDSTENG 4430 Total Quality Management Quality Engineering 3 cr
INDSTENG 4730 Engineering Management 3 cr
INDSTENG 4750 Principles and Applications of Project Management 3 cr
** Assumes BIOLOGY 2340 is taken as the natural science elective and MATH 4030 is scheduled early in the curriculum sequence.
Major

Electrical Engineering
- Communications and Electronics Emphasis
- Controls Emphasis
- Computer Engineering Emphasis
- Power and Energy Emphasis

The University of Wisconsin Platteville’s Electrical Engineering program is accredited under the General Criteria by the Engineering Accreditation Commission of ABET, http://www.abet.org.

About the Department and Major

The UW-Platteville Department of Electrical Engineering offers a Bachelor of Science degree in electrical engineering. The electrical engineering degree requirements include completion of at least one of the emphases: controls, computer engineering, power and energy, or communications and electronics. The program has outstanding laboratory and computer facilities where all students gain hands-on practical experience. Students are encouraged to participate in undergraduate research projects supervised by faculty and sponsored by outside agencies. Students graduate with a broad background in electrical engineering, and are ready to take their place in industry.

Electrical engineers design, plan and supervise the construction and maintenance of electrical and electronic equipment, computers or control systems. The variety of an electrical engineer’s work can range from the smallest integrated circuit to power systems that cover entire states. Virtually every device that is either plugged in or runs on batteries has had an electrical engineer involved in its design or construction somewhere in its development.

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 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.

The educational objectives of the EE program are to graduate engineers who:

1. have the ability to use modern analysis and design techniques and have the laboratory skills to use state-of-the-art equipment to solve practical engineering problems

The specific outcomes expected under this objective are to graduate engineers who have:

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 identify, formulate, and solve engineering problems
E) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
2. have the professional skills to function effectively in the work environment as well as in the community.

The specific outcomes expected under this objective are to graduate engineers who have:
A) an ability to function on multi-disciplinary teams
B) an understanding of professional and ethical responsibility
C) an ability to communicate effectively
D) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
E) a recognition of the need for, and an ability to engage in life-long learning
F) a knowledge of contemporary issues

3. have a solid understanding of professional and ethical responsibility.

The specific outcome expected under this objective is to graduate engineers who have:
A) an understanding of professional and ethical responsibility

4. have a broad education in order to understand contemporary issues and the impacts of technology on society and the environment.

The specific outcomes expected under this objective are to graduate engineers who have:
A) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
B) a recognition of the need for, and an ability to engage in life-long learning
C) a knowledge of contemporary issues

5. have the ability to engage in life-long learning and recognize its importance.

The specific outcomes expected under this objective are to graduate engineers who have:
A) a recognition of the need for, and an ability to engage in life-long learning

Academic Standards:
All required electrical engineering courses must be completed with a grade of “C-” or better: 1020, 1210, 2210, 2220, 3020, 3140, 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 a 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

Advanced Math Electives (3 credits):
MATH 2730 Discrete Mathematics 3 cr
(for computer emphasis only)
MATH 3230 Linear Algebra 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

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 Thermoscience for Engineers 3 cr
MECHNCHL 2630 Thermodynamics 3 cr
MSNT 3940 Microsystems and Nanotechnology 4 cr

Electrical Engineering Required Courses (28 credits):
ELECTENG 1020 Electrical Engineering Projects 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 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

ELECTENG 3130 Solid State Electronics Devices 4 cr
ELECTENG 3780 Introduction to Microprocessors 4 cr
ELECTENG 4010 UHF Amplifier Design 1 cr
ELECTENG 4020 UHF Oscillator Design 1 cr
ELECTENG 4040 Analog IC Design 4 cr
ELECTENG 4050 Advanced Analog Electronic Circuits 4 cr
ELECTENG 4430 Power Electronics and Electrical Machines 4 cr
ELECTENG 4610 Communication Systems 4 cr
ELECTENG 4620 Optical Systems 4 cr
ELECTENG 4630 Advanced Communication Systems 4 cr
ELECTENG 4980 Current Topics in Electrical Engineering 1-4 cr
ELECTENG 4990 Independent Study 1-3 cr

Computer Engineering Emphasis

ELECTENG 3130 Solid State Electronics Devices 4 cr
ELECTENG 3780 Introduction to Microprocessors 4 cr
ELECTENG 4720 Microcomputer Architecture and Interfacing 4 cr
ELECTENG 4750 Advanced Digital Design 4 cr
ELECTENG 4980 Current Topics in Electrical Engineering 1-4 cr
ELECTENG 4990 Independent Study 1-3 cr

Controls Emphasis

ELECTENG 3410 Electric Power Engineering 4 cr
ELECTENG 3780 Introduction to Microprocessors 4 cr
ELECTENG 4310 Modern Control Systems 4 cr
ELECTENG 4320 Digital Signal Processing 4 cr
ELECTENG 4350 Discrete Time Control Systems 4 cr
ELECTENG 4980 Current Topics in Electrical Engineering 1-4 cr
ELECTENG 4990 Independent Study 1-3 cr

Power and Energy Emphasis

ELECTENG 3410 Electric Power Engineering 4 cr
ELECTENG 3780 Introduction to Microprocessors 4 cr
ELECTENG 4430 Power Electronics and Electrical Machines 4 cr
ELECTENG 4440 Electric Motor Drives 4 cr
ELECTENG 4450 Power Systems Analysis 4 cr
ELECTENG 4980 Current Topics in Electrical Engineering 1-4 cr
ELECTENG 4990 Independent Study 1-3 cr

The Sustainable & Renewable Energy (SRES) Council includes the following faculty and staff:

- Chris Baxter (Agriculture)
- Ben Bocher (Environmental Engineering)
- Michael Dalecki (Sociology)
- David Kraemer (Mechanical Engineering)
- 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 (chair, Chemistry and SRES)

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

Sustainable and Renewable Energy Program

www.uwplatt.edu/ee/RenewableEnergy/index.html or www3.uwplatt.edu/sres

Contact: Tim Zauche
Office: 211 Otts
Phone: 608.342.1678
E-mail: zauchet@uwplatt.edu
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 the 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)

- ECONOMICS  2130 Principles of Macroeconomics
- ECONOMICS  2230 Principles of Microeconomics
- PHILSPHY  2540 Science, Technology, and Ethics
- BUSADMIN  3340 Management, Gender, and Race
- ACCTING  2010 Financial Acct
- ENGLISH  3000 Technical Writing
- AGINDUS  1500 Introduction to Agribusiness
- BUSADMIN  2330 Leadership & Management
- GEOGRAPHY  3330 Environmental Conservation
- ENERGY  2130 Energy, Environment & Society
- ENERGY  2340 Fundamentals of Energy Sources
- ENERGY  3130 Sustainability I: Ecology, Population and Econ
- ENERGY  3230 Biorenewable Resources
- ENERGY  3330 Energy Conversion, Transmission and Storage
- ENERGY  3430 Green Building Design I
- ENERGY  3530 Project Management for Renewable Energy
- ENERGY  3950 Renewable Energy Cooperative Education
- ENERGY  3970 Coop or Internship

For a specific emphasis a student will need to complete the following:

Development and Management Emphasis (40-48):

MATH  1830 Elementary Statistics
MATH  2630 Calculus with Applications
CHEM  1050 or CHEM 1140/1240
PHYSICS  1050 or PHYSICS 1350/1450
ACCTING  2020 Management Accounting
AGINDUS  2430 or BUSADMIN 2630, Marketing
AGINDUS  3500 or BUSADMIN 3430, Risk Management
BUSADMIN  3620 Financial Management

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):

MATH  2640 Calculus I
MATH  2740 Calc II
MATH  4030 Statistics
CHEM  1050 or CHEM 1140/1240
PHYSICS  1050 or PHYSICS 1350/1450
GENENG  1320 Engineering Computer Graphics
GENENG  2130 Engineering Mechanics - Statics
GENENG  2230 Engineering Mechanics - Dynamics
GENENG  2630 Basic Thermoscience for Engineers
GENENG  2820 Engineering Economy
GENENG  2930 Applications of Electrical Engineering
or
ELECTENG  2210 Applications of Electrical Engineering

Concentration:
12 credits of 2000 level or higher from any degree granting program within the College of EMS.

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:

ENERGY  2130 Energy, Environment and Society
ENERGY  2340 Fundamentals of Energy Sources
ENERGY  4920 Research & Project Design

For a current list of elective courses that count towards the minor, see the program’s web page.
DEPARTMENT OF ENGINEERING PHYSICS

Chair Contact: W. Doyle St.John  
Office: 228 Engineering Hall  
Phone: 608.342.1481  
E-mail: stjohn@uwplatt.edu

Professors:  
Harold T. (Hal) Evensen  
Wei Li  
W. Doyle St. John, P.E.  
Philip W. Young

Assistant Professors:  
Andy Pawl  
Tomm Scaif  
Yan Wu

Lecturers:  
Elizabeth Holden  
Paul Stryker

Physics Laboratory  
Manager: Duane Foust

www.uwplatt.edu/chemep/phys

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www.uwplatt.edu/chemep/phys

About the Department, Majors, and Minors
The UW-Platteville Department of Engineering Physics offers majors in Engineering Physics, Microsystems & Nanomaterials (B.S.), Microsystems & Nanotechnology (B.A.), Broad Field Science, and minors in Physics, Microsystems & Nanotechnology and Natural Science.

Majors
Engineering Physics  
Microsystems & Nanomaterials (B.S.)  
Microsystems & Nanotechnology (B.A.)  
Broadfield Science

Minors
Physics  
Microsystems & Nanotechnology  
Natural Science

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Microsystems & Nanomaterials (B.S.)  
Microsystems & Nanotechnology (B.A.)  
Broadfield Science

Minors
Physics  
Microsystems & Nanotechnology  
Natural Science

Education Goals and 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 apply fundamental physics and engineering principles, mathematics and modern engineering tools to solve nontraditional and/or multidisciplinary engineering problems in a team environment
2) to become responsible, accountable, current professionals who work well with those both within and outside their profession, and demonstrate leadership at some level

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

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 attend graduate school in either engineering or physics programs.

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 attend graduate school in either engineering or physics programs.

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   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 teamwork 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.

**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" in an ENGRPHYS course may be counted toward graduation.

**General Requirements**

**Bachelor of Science Degree**

Total for graduation.............................. 130 credits

General education.................................. 31 credits

**Engineering Physics Major**

(99 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 3630</td>
<td>Differential Equations I</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Math Electives (3 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3230</td>
<td>Linear Algebra</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3730</td>
<td>Numerical Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3830</td>
<td>Differential Equations II</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 4430</td>
<td>Advanced Calculus</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4530</td>
<td>Complex Variables</td>
<td>3 cr</td>
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**Basic Sciences Courses (17 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEMSTRY 1450</td>
<td>Chemistry for Engineers</td>
<td>5 cr</td>
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<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>
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</table>

**Other Courses (8 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>Engineering Projects</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 2030</td>
<td>Engineering Modeling and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 1430</td>
<td>Programming in C++</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Engineering Science Courses (17-18 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>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>ELECTENG 1210</td>
<td>Circuit Modeling I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ELECTENG 2210</td>
<td>Circuit Modeling II</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 2220</td>
<td>Signals and Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>MECHNCHL 2630</td>
<td>Thermodynamics</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2630</td>
<td>Thermoscience</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2340</td>
<td>Mechanics of Materials</td>
<td>4 cr</td>
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</table>

**Engineering Physics Courses (21 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGRPHYS 3240</td>
<td>Applied Mechanics</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENGRPHYS 3640</td>
<td>Electric and Magnetic Fields</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENGRPHYS 4010</td>
<td>Engineering Physics Lab</td>
<td>2 cr</td>
</tr>
<tr>
<td>ENGRPHYS 4140</td>
<td>Applied Optics</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENGRPHYS 4210</td>
<td>Sensor Lab</td>
<td>2 cr</td>
</tr>
<tr>
<td>ENGRPHYS 4220</td>
<td>Introduction to Quantum Electronics</td>
<td>2 cr</td>
</tr>
<tr>
<td>ENGRPHYS 4930</td>
<td>Engineering Physics Design</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
### 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 and engineering physics courses for the professional engineering electives. Three of these courses must include design and at least one 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

### Physics Minor (24 credits)

**Minor in Physics (Science Emphasis)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</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>PHYSICS 3140</td>
<td>Modern Physics</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**Plus at least 12 credits from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 3240</td>
<td>Applied Mechanics</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENGRPHYS 3640</td>
<td>Electric and Magnetic Fields</td>
<td>4 cr</td>
</tr>
<tr>
<td></td>
<td>(same as ELECTENG 3140)</td>
<td></td>
</tr>
<tr>
<td>ENGRPHYS 4140</td>
<td>Applied Optics</td>
<td>4 cr</td>
</tr>
<tr>
<td></td>
<td>(same as ELECTENG 4620)</td>
<td></td>
</tr>
<tr>
<td>ENGRPHYS 4220</td>
<td>Introduction to Quantum Electronics</td>
<td>2 cr</td>
</tr>
<tr>
<td>ENGRPHYS 4980</td>
<td>Special Topics in Engineering Physics</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>ENGRPHYS 4990</td>
<td>Independent Study in Engineering</td>
<td>1-3 cr</td>
</tr>
<tr>
<td></td>
<td>Physics</td>
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</table>

**Minor in Physics (Education Emphasis)**

<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>PHYSICS 3140</td>
<td>Modern Physics</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHSC 1310</td>
<td>Introductory Astronomy Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>PHSC 1340</td>
<td>Introductory Astronomy</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 3140</td>
<td>Modern Physics</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**Plus at least 7 credits from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY 2260</td>
<td>Electronic Circuits</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 2630</td>
<td>Thermoscience</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGRPHYS 3640</td>
<td>Electric and Magnetic Fields</td>
<td>4 cr</td>
</tr>
<tr>
<td></td>
<td>(same as ELECTENG 3140)</td>
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<tr>
<td>ENGRPHYS 4140</td>
<td>Applied Optics</td>
<td>4 cr</td>
</tr>
<tr>
<td></td>
<td>(same as ELECTENG 4620)</td>
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<tr>
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<td>Independent Study in Engineering</td>
<td>1-2 cr</td>
</tr>
<tr>
<td></td>
<td>Physics</td>
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</tr>
</tbody>
</table>

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**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 offers three possible degree paths for students wishing to pursue studies in Microsystems, Nanotechnology and Nanomaterials. The degrees are intended to meet the significantly different needs and interest areas of students and industry.

A student who wishes to become a Licensed Professional Engineer and work as a design engineer in the area of Microsystems and Nanotechnology is encouraged to follow the ABET accredited Bachelor of Science in Engineering Physics with Microsystems and Nanomaterials emphasis. This degree is accredited and will allow the student to take the Fundamentals in Engineering (FE) exam. As with other ABET degrees, additional requirements beyond their education are needed to take the Professional Engineering (PE) licensure examination. Students in this degree program are encouraged to work closely with their advisor to select electives that will best support them in their desired career path.

A student who is interested in graduate studies in Microsystems and Nanomaterials is encouraged to follow the Bachelor of Science in Microsystems and Nanomaterials degree program. This program is not intended to prepare a student to become a Professional Engineer. The program is intended to prepare a student for postgraduate studies in areas related to Microsystems and Nanomaterials. Because of the widely varying graduate school requirements, students are encouraged to work closely with their advisor to create a customized program, within the constraints of the degree requirements, that is most appropriate to support their continued education.

A student who is interested in technical management or who would like to pursue entrepreneurial ventures in the area of Microsystems and Nanotechnology is encouraged to complete the Bachelor of Arts in Microsystems and Nanotechnology degree program. This degree is not intended to prepare a student to become a Professional Engineer. Foundational courses in science, mathematics, and engineering are supplemented with business and management coursework to prepare the student for their desired career. Because of the significantly differing interest areas and intents of this degree offering, students are strongly encouraged to work with advisors both in the Microsystems and Nanotechnology program and with those supporting the Entrepreneurial program.

For more information about these programs, please contact the Department of Engineering Physics.
Microsystems and Nanotechnology Minor (24 credits)

Required courses (9 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSNT 1010</td>
<td>Introduction to Microsystems and Nanotechnology</td>
<td>1</td>
</tr>
<tr>
<td>MSNT 3940</td>
<td>Principles and Applications of Nanotechnology</td>
<td>4</td>
</tr>
<tr>
<td>MSNT 4000</td>
<td>Research in Microsystems and Nanotechnology</td>
<td>1-3</td>
</tr>
<tr>
<td>MSNT 4230</td>
<td>Design and Simulation of MEMS</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>GENENG 2930 Applications of Electrical Engineering (Chem. majors)</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>CHEMSTRY 4130 and 4110 Physical Chemistry and Lab (Biology majors)</td>
<td>3+1</td>
</tr>
</tbody>
</table>

Electives (15 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</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOLOGY 3330</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 3530</td>
<td>Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 4040</td>
<td>Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 3620</td>
<td>Immunology</td>
<td>2</td>
</tr>
<tr>
<td>CHEMSTRY 2150</td>
<td>Quantitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEMSTRY 3540</td>
<td>Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEMSTRY 4630</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEMSTRY 4130</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>ELECTENG 3020</td>
<td>Analog Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELECTENG 3130</td>
<td>Solid State Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ELECTENG 3310</td>
<td>Automatic Controls</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td>MECHENG 4330 Automatic Controls</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>ENGRPHYS 3640 Electric &amp; Magnetic Fields</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td>ELECTENG 3140 Electric &amp; Magnetic Fields</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td>ENGRPHYS 3240 Applied Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td>ENGRPHYS 4140 Applied Optics</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td>ENGRPHYS 4210 Sensors Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>OR</td>
<td>ENGRPHYS 4220 Intro. Quantum Electronics</td>
<td>2</td>
</tr>
<tr>
<td>OR</td>
<td>MECHENG 3040 Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>MECHENG 3230 Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>MECHENG 3330 Design of Machine Elements</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>MECHENG 4430 Advanced Materials</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>MECHENG 4500 Biomedical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>MECHENG 4830 Mechatronics</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>PHILSPHY 2540 Science, Technology and Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

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 (31-4139-40 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 1150</td>
<td>General Biology</td>
<td>5</td>
</tr>
<tr>
<td>OR</td>
<td>BIOLOGY 1650 The Unity of Life</td>
<td>5</td>
</tr>
<tr>
<td>OR</td>
<td>BIOLOGY 1750 The Diversity of Life</td>
<td>5</td>
</tr>
</tbody>
</table>

**Chemistry**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 1050/1450 General Chemistry</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>CHEMSTRY 1140 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td>CHEMSTRY 1240 General Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Earth and Space Science**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSC 1340</td>
<td>Astronomy</td>
<td>4</td>
</tr>
<tr>
<td>PHSC 1310</td>
<td>Astronomy Lab I</td>
<td>1</td>
</tr>
</tbody>
</table>

**Earth Science**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRPHY 1040</td>
<td>Planet Earth</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td>GEOGRPHY 1240 Weather and Climate</td>
<td>4</td>
</tr>
</tbody>
</table>

And One course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOLOGY 1140</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td>GEOGRPHY 1140 Global Landforms</td>
<td>4</td>
</tr>
</tbody>
</table>

**Physics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 1050 Principles of Physics</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>PHYSICS 1350 Introductory Physics I</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 1450 Introductory Physics II</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

(Or the sequence PHYSICS 2240 and 2340 for eight credits)

The College of Engineering, Mathematics and Science administers an interdepartmental broad field science major and a natural science minor.

Contact: Philip Young
Office: 223 Engineering Hall
Phone: 608.342.1406
E-mail: youngp@uwplatt.edu
Approved concentrations from two of the science areas or a minor in one area Biology, Chemistry, Physics, or Physics, or a major in Biology or Chemistry (14-24 credits):

**Biology Concentration**
BIOLOGY 1650 and 1750
BIOLOGY 3450 Ecology and Evaluation 3 cr
BIOLOGY 2340 Essentials of Anatomy and Physiology 4 cr
BIOLOGY Elective in biology
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
GEOGRAPHY 1240
GEOLOGY 1140 Physical Geology 4 cr
One course from
GEOLOGY 1240 Historical Geology 4 cr
GEOGRAPHY 1140 Global Landforms

One course from
GEOLOGY 3040 Mineralogy and Lithology 4 cr
GEOLOGY 3430 Hydrogeology 4 cr
GEOLOGY 3550 Process Geomorphology 4 cr
GEOLOGY 4840 Soil Geomorphology 4 cr

**Physics Concentration**
PHYSICS 2240 and 2340
MATH 2640 Calculus and Analytic Geometry I
MATH 2740 Calculus and Analytic Geometry II 4 cr
and
MATH 2840 Calculus and Analytic Geometry III 4 cr
PHYSICS 3140 Modern Physics I 4 cr
One course from
INDUSTDY 2260 Electronic Circuits 3 cr
GENENG 2930 Applications of Electrical Engineering 3 cr

**Electives:**
Students must complete science electives for a total of 60 science credits. All required course in the concentrations and electives accepted toward a science minor or major count as science credits.

**Mathematics Sequence (6-9 credits):**
MATH 2530 Trigonometry and Analytic Geometry 3 cr or
MATH 2450 Precalculus 5 cr
And
MATH 1830 Statistics 3 cr or
MATH 2640 Calculus and Analytic Geometry I 4 cr
Demonstrate proficiency with microcomputer applications

**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**
PHYSICS 1650 The Unity of Life 5 cr
PHYSICS 1750 The Diversity of Life 5 cr

**Chemistry**
CHEMISTRY 1150 General Chemistry 4 cr
CHEMISTRY 1140 General Chemistry* 4 cr
CHEMISTRY 1140 General Chemistry 4 cr

**Geosciences**
GEOGRAPHY 1040 Planet Earth 4 cr
GEOGRAPHY 1140 Global Landforms 4 cr
GEOGRAPHY 1240 Physical Geography: Weather and Climate* 4 cr
GEOLOGY 1140 Physical Geology 4 cr
GEOLOGY 1240 Historical Geology 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**
PHYSICS 1650 The Unity of Life 5 cr
PHYSICS 1750 The Diversity of Life 5 cr

**Chemistry**
CHEMISTRY 1140 General Chemistry 4 cr
CHEMISTRY 1240 General Chemistry 4 cr

**Geosciences**
GEOGRAPHY 1240 Physical Geography 4 cr

**And one course from:**
GEOGRAPHY 1040 Planet Earth 4 cr
GEOGRAPHY 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>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>ENGLISH</td>
<td>1130</td>
<td>Freshman Composition I</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>GENENG</td>
<td>1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>1000</td>
<td>Fitness Assessment</td>
<td>1 cr</td>
</tr>
<tr>
<td>Humanities or social science elective</td>
<td></td>
<td></td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Total credits: 14-17
General Engineering Program Requirements

1. Each student must complete the following core courses:

<table>
<thead>
<tr>
<th>Engineering Major</th>
<th>CHEMSTRY 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 2770</th>
<th>PHYSICS 2240</th>
<th>COMPUTER 1430</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Electrical</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Eng. Physics</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Environmental</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Industrial</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Mechanical</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Software</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</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 EMS

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.

New GE 60-credit dismissal policy:

Two groups of 60-credit dismissals exist based on an evaluation by the GE 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 GE 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.
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 Calcaterra
Mu-Ling Chang
Benjamin Collins
Timothy Deis
Michael Ira
Clement Jeske
Julie McDonald
Jason Thrun
Sheryl Wills

Associate Professors:
Mu-Ling Chang
Kevin Haertzen
Michael Ira
Ahyoung Kim
Miyeon Kwon
James Swenson
Irfan Ul-Haq

Assistant Professors:
Rachel Becvarik
Christopher Frayer
Ahyoung Kim
Leonida Ljumanovic
Fernando Miranda-Mendoza

Lecturers:
Lauren Bingham
Terry DesJarlais
Amy Dye
Jodean Grunow
Gerald Moore
Zehra Muslu
Florence Obielodan
Amy Schollmeier
Susan Weiner

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 degree in statistics would include upper level probability and statistics courses. Those who plan to teach would choose courses 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:
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/math 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, INDESTENG 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, INDESTENG 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: CHEMISTRY 1140 General Chemistry, CHEMISTRY 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.

ACCTING  2010  Financial Accounting I   3 cr
ACCTING  2020  Management Accounting II 3 cr
BUSADMIN 1200  Introduction to American Business Enterprise 3 cr

or
BUSADMIN 1300  Global Business 3 cr
BUSADMIN 3430  Risk Management 3 cr
BUSADMIN 3620  Financial Management 3 cr
BUSADMIN 3930  Investments 3 cr
ECONOMIC  2130  Macroeconomics 3 cr
ECONOMIC  2230  Microeconomics 3 cr

In addition to these required courses, students majoring in this emphasis should also consider taking
BUSADMIN  4030  Financial Decision Making 3 cr

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:

Core Requirements for Business/Accounting Courses:
ACCTING 2010  Financial Accounting I 3 cr
ACCTING 2020  Management Accounting II 3 cr
BUSADMIN 3620  Financial Management 3 cr
BUSADMIN 3710  Bank Management 3 cr
BUSADMIN 3930  Investments 3 cr
BUSADMIN 4030  Financial Decision Making 3 cr

Electives Requirement
All mathematical majors with an emphasis in finance must successfully complete at least two of the following courses:
BUSADMIN 3400  Personal Finance Planning 3 cr
BUSADMIN 3430  Risk Management 3 cr
BUSADMIN 3640  Financial Systems Analysis 3 cr
BUSADMIN 3650  International Finance 3 cr

In addition to these required courses, students majoring in this emphasis should also consider taking the following courses:
ECONOMIC 2130  Macroeconomics 3 cr
ECONOMIC 2230  Microeconomics 3 cr
MATH 1730  Mathematics of Finance 3 cr

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:

Required Courses:
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

At least one course from:
MATH 3230  Linear Algebra 3 cr
MATH 3630  Differential Equations I 3 cr
MATH 3730  Numerical Analysis 3 cr
MATH 4030  Statistical Methods with Applications 3 cr

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.
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:

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

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:

MATH 1030 Mathematics for Educators I 3 cr
MATH 2030 Mathematics for Educators II 3 cr
MATH 3030 Mathematics for Educators III 3 cr
MATH 1830 Elementary Statistics 3 cr
MATH 2450 Precalculus 5 cr
MATH 2630 Calculus with Applications 3 cr
MATH 3040 Mathematics Seminar for Middle Level Teachers 4 cr

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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E-mail: kunzd@uwplatt.edu

Professors:
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Jill M. Clough
Patricia Jinkins

Lecturer:
Vettrivel Gnaneswaran

Academic Department Associate:
Jane Kuhl

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 ...................... 129-131 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>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 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 one of the following areas with a minimum of 15 credits.

At least nine technical elective credits must be numbered IE XXXX.
At least 12 technical elective credits must be numbered 3000 or higher.

Production Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHNCHL 3230</td>
<td>Manufacturing Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4630</td>
<td>Manufacturing Systems Design</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

At least 9 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDSTENG 3780</td>
<td>System Safety Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4130</td>
<td>Simulation</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4330</td>
<td>Material Handling and Warehousing</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4830</td>
<td>Engineering Continuous Improvement</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Engineering Management Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDSTENG 4750</td>
<td>Principles and Application of Project Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4830</td>
<td>Engineering Continuous Improvement</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

At least 9 credits from:

<table>
<thead>
<tr>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>INDSTENG 3780</td>
<td>System Safety Engineering</td>
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<tr>
<td>INDSTENG 4130</td>
<td>Simulation</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4330</td>
<td>Material Handling and Warehousing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3600</td>
<td>Regulatory Compliance Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 4100</td>
<td>Supply Chain Management</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Human Systems Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHNCHL 4500</td>
<td>Biomedical Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4540</td>
<td>Human Performance and Systems Design</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

At least 9 credits from:

<table>
<thead>
<tr>
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<tbody>
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<td>INDSTENG 3780</td>
<td>System Safety Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDSTENG 4750</td>
<td>Principles and Application of Project Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3000</td>
<td>Cognitive Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3430</td>
<td>Physiological Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3960</td>
<td>Behavioral Research I</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Information Systems Emphasis
INDSTENG 4130 Simulation  3 cr
INDSTENG 4540 Human Performance and Systems Design  3 cr
INDSTENG 4750 Principles and Application of Project Management  3 cr
SOFTWARE 2430 Object-Oriented Programming and Data Structures I  3 cr
COMPUTER 3630 Database Design and Implementation  3 cr

Mechanical Engineering
www.uwplatt.edu/meie

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John A. Mirth
Michael E. Momot
Prathivadi B. Ravikumar
Kurt C. Rolle
Lynn M. Schlager

Assistant Professors:
Anne-Marie Lerner
Jessica P. Meulbroek
John Obielodan

Lecturer:
Guy Campbell

Academic Department Associate:
Jane Kuhl

Associate Professors:
Tuba Bayraktar
Jeff Hoerning
John Iselin
David Kraemer
Michael Zampanoli

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 Objective and Outcomes

1. Mechanical engineers that have a strong background in the technical areas
   a. Ability to apply mathematics and basic sciences to solve practical problems
   b. Solid background in engineering sciences and design
   c. Solid background in computer tools and methods
   d. Solid background in experimental methods
   e. Sufficient flexibility in curriculum so that students may pursue individual interests

2. Mechanical engineers that have strong professional skills
   a. Communication skills including oral, written and graphical
   b. Team working skills
   c. Awareness of and ability to effectively deal with a wide range of societal issues, such as aesthetic, economic, environmental, legal and social, that shape engineering decision making
   d. Familiarity with the design process in a broad sense, including project planning, project management and implementation

3. Mechanical engineers that understand the need for and have the capability and motivation to pursue continual professional development
   a. Ability to keep up to date with current engineering practices, procedures and tools
   b. Ability to successfully pursue graduate or professional study

4. Mechanical engineers that are familiar with ethics and professionalism
   a. Understanding of ethical principles and typical dilemmas faced by practicing engineers
   b. Familiarity with the laws pertaining to the professional practice of engineering and the responsibilities of engineers
5. Mechanical engineers with a well-rounded education to become quality citizens
   a. Solid liberal arts and social science background to develop connections between engineering and social and humanistic issues
   b. Support a variety of activities to enhance and broaden the students’ opportunities technically and socially

**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</td>
</tr>
<tr>
<td>MATH</td>
<td>2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH</td>
<td>2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>MATH</td>
<td>3630</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH</td>
<td>4030</td>
<td>Statistical Methods with Applications</td>
<td>3</td>
</tr>
<tr>
<td>CHEMISTRY</td>
<td>1450</td>
<td>Chemistry for Engineers</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>2240</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>2340</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>GENENG</td>
<td>1000</td>
<td>Engineering Success Skills</td>
<td>1</td>
</tr>
<tr>
<td>GENENG</td>
<td>1030</td>
<td>Introduction to Engineering Projects</td>
<td>1</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GENENG</td>
<td>2030</td>
<td>Engineering Modeling and Design</td>
<td>3</td>
</tr>
<tr>
<td>GENENG</td>
<td>2820</td>
<td>Engineering Economy</td>
<td>2</td>
</tr>
<tr>
<td>GENENG</td>
<td>2130</td>
<td>Engineering Mechanics - Statics</td>
<td>3</td>
</tr>
<tr>
<td>GENENG</td>
<td>2230</td>
<td>Engineering Mechanics - Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>GENENG</td>
<td>2340</td>
<td>Mechanics of Materials</td>
<td>4</td>
</tr>
<tr>
<td>GENENG</td>
<td>2930</td>
<td>Applications of Electrical Engineering</td>
<td>3</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>
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</thead>
<tbody>
<tr>
<td>MECHNCHL</td>
<td>2630</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3030</td>
<td>Dynamical Systems</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3040</td>
<td>Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3230</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3300</td>
<td>Fluid Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3330</td>
<td>Design of Machine Elements</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>3430</td>
<td>Introduction to Computational Methods</td>
<td>3</td>
</tr>
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**Technical Electives (9 credits)**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ELECTENG</td>
<td>4310</td>
<td>Modern Control Systems</td>
<td>4</td>
</tr>
<tr>
<td>INDSTENG</td>
<td>4430</td>
<td>Total Quality Management</td>
<td>3</td>
</tr>
<tr>
<td>INDSTENG</td>
<td>4730</td>
<td>Engineering Management</td>
<td>3</td>
</tr>
<tr>
<td>INDSTENG</td>
<td>4830</td>
<td>Engineering Continuous Improvement</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4430</td>
<td>Advanced Materials</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4440</td>
<td>Failure of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4500</td>
<td>Biomedical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4520</td>
<td>Power Plant Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4550</td>
<td>Heat Transfer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4560</td>
<td>Computational Fluid Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4600</td>
<td>Energy Systems Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4630</td>
<td>Internal Combustion Engine Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4640</td>
<td>Mechanical Design of Internal Combustion Engines</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Total for graduation........................................ 132 credits
Major studies................................................ 101 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHNCHL</td>
<td>4800</td>
<td>Finite Element Method</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4830</td>
<td>Mechatronics</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4840</td>
<td>Vibration System Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4850</td>
<td>Computer-Aided Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MECHNCHL</td>
<td>4980</td>
<td>Current Topics in Engineering</td>
<td>1-3</td>
</tr>
</tbody>
</table>
In addition, students may take major coursework in education through one-to-one student exchange programs in Stavanger, Norway, or in Windesheim, the Netherlands. These one-to-one exchange programs allow UW-Platteville students to pay tuition and fees locally while attending classes abroad. Therefore, the only additional costs incurred are for travel and incidental expenses.

Applied Learning
The College of LAE offers modern 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, 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
Many programs within the college afford students the opportunity to pursue work experiences. Students can use their classroom knowledge to solve real-world problems under the careful guidance of mentors and the supervision of university faculty members.

Partnerships with Local Schools and Educational Agencies
Regional and area preschool, elementary, middle, and high schools serve as laboratories for field experiences related to professional teaching. The college utilizes the Children’s Center located on campus as an observation and clinical facility to prepare students for early childhood methods classes.

The Education Office of Special Programs provides administrative support to many teacher education programs and, in particular the cross-categorical special education and English language learner programs that lead to licensure by the Wisconsin Department of Public Instruction. The office also makes available for purchase or check-out educational resources for middle level educators. These resources were compiled during the many years that UW-Platteville housed the Center of Education for the Young Adolescent and hosted the summer seminar, Teaching the Transcendent. Seminars offered by the university today revolve around topics of interest identified by teachers of all levels in their professional development plans. EOSP is located in 134 Doudna Hall. More information can be obtained by calling 608.342.1276 or 1.800.208.7041.

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.

---

**DEPARTMENT OF CRIMINAL JUSTICE**

www.uwplatt.edu/cj

<table>
<thead>
<tr>
<th>Department Chair:</th>
<th>Thomas E. Caywood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office:</td>
<td>1174 Ullsvik Hall</td>
</tr>
<tr>
<td>Phone:</td>
<td>608.342.1653</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:caywood@uwplatt.edu">caywood@uwplatt.edu</a></td>
</tr>
</tbody>
</table>

**Professors:**
- Cheryl Banachowski-Fuller
- Thomas E. Caywood

**Associate Professors:**
- Sabina Burton
- Aric Dutelle

**Assistant Professors:**
- Lorne Gibson
- Diana Johnson
- Rex Reed

**Lecturers:**
- Danelle Bemis
- 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 mature, ethically 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.

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**

<table>
<thead>
<tr>
<th>Total for graduation</th>
<th>120 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General education</td>
<td>44-58 credits</td>
</tr>
<tr>
<td>Major studies</td>
<td>36 credits</td>
</tr>
</tbody>
</table>

**Bachelor of Arts Degree**

<table>
<thead>
<tr>
<th>Total for graduation</th>
<th>120 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General education</td>
<td>44-58 credits</td>
</tr>
<tr>
<td>Major studies</td>
<td>36 credits</td>
</tr>
</tbody>
</table>

**Bachelor of Arts Supplement**

Students must choose one of two options.

**Option One (6 credits)**

<table>
<thead>
<tr>
<th><strong>Required Courses (6 credits, 3 credits per discipline):</strong></th>
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</thead>
<tbody>
<tr>
<td>PHLSPHY 2330 Origins of Western Philosophy 3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2430 Philosophy in the Modern World 3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2530 Ethics 3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3430 Social Philosophy 3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3630 Philosophy of Law 3 cr</td>
</tr>
<tr>
<td>ENGLISH 2430 American Literature through the Civil War 3 cr</td>
</tr>
<tr>
<td>ENGLISH 2530 American Literature since the Civil War 3 cr</td>
</tr>
<tr>
<td>ENGLISH #### Any English course from 3140 through 3760 3 cr</td>
</tr>
<tr>
<td>HISTORY #### Any history course from 3120 through 3430 3 cr</td>
</tr>
</tbody>
</table>

**Option Two (4 credits)**

<table>
<thead>
<tr>
<th><strong>Required Courses (4 credits):</strong></th>
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<tbody>
<tr>
<td>FRENCH 2040 Intermediate French 4 cr</td>
</tr>
<tr>
<td>GERMAN 2240 Intermediate German 4 cr</td>
</tr>
<tr>
<td>SPANISH 2840 Intermediate Spanish 4 cr</td>
</tr>
</tbody>
</table>

**Criminal Justice Major (36 credits)**

Students can NOT double major in criminal justice and forensic investigation.

<table>
<thead>
<tr>
<th><strong>Required Courses:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 1130 Introduction to Criminal Justice 3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 2130 The Police Function 3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 2230 Correctional Philosophy 3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4030 Criminal Law 3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4930 Criminal Justice Seminar 3 cr</td>
</tr>
</tbody>
</table>

Electives in criminal justice 21 cr

In addition, all criminal justice majors:

1. must complete three credits of coursework on the nature and causes of criminal and delinquent behavior, which can be fulfilled by successful completion of CRIMLJUS 3430 Patterns of Criminal and Delinquent Behavior, CRIMLJUS 3630 Juvenile Justice, PSYCH 4830 Psychology and the Law, or SOCIOLGY 3330 Crime and Delinquency

2. must complete three credits of coursework in research methods, which can be fulfilled by successful completion of either CRIMLJUS 3900 Research Methods in Criminal Justice or SOCIOLGY 3430 Social Research

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 three 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><strong>Required Courses:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 2930 Interviewing 3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 3130 Criminal Investigations 3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4130 Police Community Relations 3 cr</td>
</tr>
</tbody>
</table>

**Electives (4-6 credits):**

| CRIMLJUS 3330 Police Administration 3 cr |
| CRIMLJUS 4330 Procedure and Evidence 3 cr |
| CRIMLJUS 4630 Current Topics 1-3 cr |
Corrections Emphasis (15 credits)

Required Courses:
- CRIMLJUS 3530 Correctional Institutions 3 cr
- CRIMLJUS 3630 Juvenile Justice 3 cr
- CRIMLJUS 4230 Community-Based Corrections 3 cr

Electives (4-6 credits):
- CRIMLJUS 2930 Interviewing 3 cr
- CRIMLJUS 3930 Law of Corrections 3 cr
- CRIMLJUS 4630 Current Topics 1-3 cr

Forensic Investigation Major
Bachelor of Science

Students can NOT double major in forensic investigation and criminal justice.

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
ENGLISH 3000 Technical Writing 3 cr
BIOLOGY+ 4-5 cr
CHEMSTRY+ 4-5 cr

(Required Courses for Graduation)

Criminal Justice Departmental Core Requirements
(Grade of “C” or higher required)
- CRIMLJUS 1130 Introduction to Criminal Justice 3 cr
- CRIMLJUS 3900 Research Methods in Criminal Justice 3 cr
- CRIMLJUS 4030 Criminal Law 3 cr

Forensic Investigation Requirements
(Grade of “C” or higher required)
- FORENSIC 1320 Introduction to Crime Scene Investigation 3 cr
- FORENSIC 2320 Fingerprint Classification and Development 3 cr
- FORENSIC 2420 Evidence Collection and Preservation 2 cr
- FORENSIC 2620 Investigative Photography 3 cr
- FORENSIC 3040 Crime Scene Processing Techniques (w/Lab) 4 cr
- CRIMLJUS 3130 Criminal Investigations 3 cr
- FORENSIC 3140 Criminalistics (w/Lab) 5 cr
- FORENSIC 4020 Courtroom Testimony and Evidence 3 cr
- FORENSIC 4920 Forensic Investigation Seminar 3 cr

Forensic Investigation Electives (6 credits minimum)
- CRIMLJUS 2130 The Police Function 3 cr
- CRIMLJUS 2930 Interviewing 3 cr
- FORENSIC 4500 Directed Individual Studies 1-3 cr
- FORENSIC 4620 Current Topics in Forensic Investigation 1-3 cr
- FORENSIC 4720 Honors Research in Forensic Investigation 3 cr
- FORENSIC 4880 Internship in Forensic Investigation 8 cr

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.

Criminal Justice Minor (24 credits)

Required Courses:
- CRIMLJUS 1130 Introduction to Criminal Justice 3 cr
- CRIMLJUS 2130 The Police Function 3 cr
- CRIMLJUS 2230 Correctional Philosophy 3 cr
- CRIMLJUS 4030 Criminal Law 3 cr
- Electives in criminal justice 12 cr

Forensic Investigation Minor
(26 credits)

The minor in forensic investigation provides a basic understanding of the role and procedures used by crime scene technicians at a crime scene. Emphasis is placed on the collection, analysis, documentation, and preservation of crime scene evidence.

Required Courses:
- CRIMLJUS 1130 Introduction to Criminal Justice 3 cr
- FORENSIC 1320 Introduction to Crime Scene Investigation 3 cr
- FORENSIC 2320 Fingerprint Classification and Development 3 cr
- FORENSIC 2420 Evidence Collection and Preservation 2 cr
- FORENSIC 2620 Investigative Photography 3 cr
- FORENSIC 3040 Crime Scene Processing Techniques (w/Lab) 4 cr
- CRIMLJUS 3130 Criminal Investigations 3 cr
- FORENSIC 3140 Criminalistics 5 cr
About the Ethnic Studies Program and Minor

The Ethnic Studies Program Council includes Rosalyn Broussard, social sciences; Teresa Burns, humanities; Rea Kirk, education; Laura Wendorff, humanities; and Melissa Gormley, social sciences.

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, 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.

Certificate in Ethnic Studies (15 credits)

**Required Courses:**

- ETHNSTDY 1030 Race, Gender, and Class in the U.S. 3 cr
- or ETHNSTDY 2200 Introduction to Ethnic Studies 3 cr

**Electives (12 credits):**

- ETHNSTDY 2130 The Native American Experience 3 cr
- ETHNSTDY 2230 Black Experience in the U.S. 3 cr
- ETHNSTDY 2730 Ethnic Art in the United States 3 cr
- ETHNSTDY 2830 Ethnicity, Race, and Crime 3 cr
- ETHNSTDY 2930 Minority Women Writers of the U.S. 3 cr
- ETHNSTDY 2940 The Political Economy of Race, Gender, and Ethnicity 3 cr
- ETHNSTDY 3010 Race, Gender, and U.S. Labor History 3 cr
- ETHNSTDY 3230 Human Relations 3 cr
- ETHNSTDY 3240 African-American History: 1619 to Present 3 cr
- BUSADMIN 3340 Management, Gender and Race 3 cr
- ETHNSTDY 3400 History of Chicano Peoples in the U.S. 3 cr
- ETHNSTDY 3410 Chicano Literature 3 cr
- ETHNSTDY 3630 Ethnic and Gender Equity in Education 3 cr
- ETHNSTDY 3720 Ethnic Rights and Politics 3 cr
- ETHNSTDY 3730 Black Literature in America 3 cr
- ETHNSTDY 3740 Asian-American Literature 3 cr

Minor in Ethnic Studies (24 credits)

**Required Courses:**

- ETHNSTDY 1030 Race, Gender, and Class in the U.S. 3 cr
- or ETHNSTDY 2200 Introduction to Ethnic Studies 3 cr

**Electives (21 credits):**

- ETHNSTDY 2130 The Native American Experience 3 cr
- ETHNSTDY 2230 Black Experience in the U.S. 3 cr
- ETHNSTDY 2730 Ethnic Art in the United States 3 cr
- ETHNSTDY 2830 Ethnicity, Race, and Crime 3 cr
- ETHNSTDY 2930 Minority Women Writers of the U.S. 3 cr
- ETHNSTDY 3230 Human Relations 3 cr
- ETHNSTDY 3240 African-American History: 1619 to Present 3 cr
- BUSADMIN 3340 Management, Gender and Race 3 cr
- ETHNSTDY 3630 Ethnic and Gender Equity in Education 3 cr
- ETHNSTDY 3720 Ethnic Rights and Politics 3 cr
- ETHNSTDY 3730 Black Literature in America 3 cr
- ETHNSTDY 3740 Asian-American Literature 3 cr
- ETHNSTDY 3750 American Literature of Ethnicity and Immigration 3 cr
- ETHNSTDY 3760 Wisconsin Indian Literature 3 cr
- ETHNSTDY 3770 American Literature of Ethnicity and Immigration 3 cr
- ETHNSTDY 3780 African-American Literature 3 cr
- ETHNSTDY 3790 Asian-American Literature 3 cr
- ETHNSTDY 3750 American Literature of Ethnicity and Immigration 3 cr
- ETHNSTDY 3760 Wisconsin Indian Literature 3 cr
- ETHNSTDY 3770 American Literature of Ethnicity and Immigration 3 cr
- ETHNSTDY 3780 African-American Literature 3 cr
- ETHNSTDY 3790 Asian-American Literature 3 cr
DEPARTMENT OF HUMANITIES

www.uwplatt.edu/humanities

Department Chair: Teresa Burns
Office: 320 Warner Hall
Phone: 608.342.1880
E-mail: burnst@uwplatt.edu

English Majors
Literature
English Education
Professional Writing

English Minors
English Non-Teaching
English Education
Creative Writing
Teaching English to Speakers of Other Languages (TESOL)
Interdisciplinary Film and Media Studies

Certificate in Writing
Certificate in Teaching English to Speakers of Other Languages

Philosophy Major

Philosophy Minor

Foreign Languages Majors
German
German Education
Spanish
Spanish Education

Foreign Languages Minors
French
French Education
German
German Education
Spanish
Spanish Education

Certificate in Foreign Languages
French
German
Spanish

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
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.
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: Russell Brickey
Office: 303 Brigham Hall
Phone: 608.342.1615
Email: brickeyr@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.
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.

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</td>
<td>3 cr</td>
</tr>
<tr>
<td>Literary Theory and Criticism</td>
<td></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</td>
<td></td>
</tr>
<tr>
<td>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>
</tbody>
</table>

Students must earn a "C" or better in these courses.

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>
<tr>
<td>ENGLISH 3930 Literature for Young Adults</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Pre or corequisite for English 4730)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 3940 Grammar in Context</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4330 Shakespeare</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4620 History of the English Language</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Students must earn a "C" average or better in these courses.

Required Courses for the School of Education (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 4730 Teaching English in Middle and Secondary Schools</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Pre or corequisites: ENGLISH 3030 and ENGLISH 3930)</td>
<td></td>
</tr>
</tbody>
</table>

Counts for total graduation credits, but does not count towards an English major.

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:

<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>Electives in literature at the 3000 level or above</td>
<td>6 cr</td>
</tr>
<tr>
<td>Elective courses from the lists below</td>
<td>21 credits</td>
</tr>
<tr>
<td>ENGLISH 4680 Writing Internship</td>
<td>3 cr minimum</td>
</tr>
</tbody>
</table>

(Students may do more than one internship for 1-8 credits)

Electives (21 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 2830 Advanced Microcomputer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 2120 Creative Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3000 Technical Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3140 Poetry Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3150 Fiction Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3160 Creative Nonfiction Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3240 Advanced Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3360 Magazine Writing and Editing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4120 Advanced Manuscript Workshop</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
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 3 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 a 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 2210</td>
<td>Introduction to Linguistics</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3250</td>
<td>Sociolinguistics</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 3940</td>
<td>Grammar in Context</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 4670</td>
<td>Methods of Teaching English as a Second Language</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 4750</td>
<td>Practicum in Teaching English as a Second Language</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Cross-Cultural Immersion Experience (3 credits or advisor approval)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 3750</td>
<td>International Short Study</td>
<td>3 cr</td>
</tr>
<tr>
<td>FRENCH 3000</td>
<td>Foreign Languages Travel Abroad Seminar</td>
<td>3 cr</td>
</tr>
<tr>
<td>GERMAN 3000</td>
<td>Foreign Languages Travel Abroad Seminar</td>
<td>3 cr</td>
</tr>
<tr>
<td>LAE 3000</td>
<td>LAE Short-term International Experience</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPANISH 3000</td>
<td>Foreign Languages Travel Abroad Seminar</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 4350</td>
<td>Field Experience in Cultural Diversity</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Additional Licensure Requirements**

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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 2210</td>
<td>Introduction to Linguistics</td>
<td>3 cr</td>
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<tr>
<td>ENGLISH 3250</td>
<td>Sociolinguistics</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 3940</td>
<td>Grammar in Context</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</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 4620</td>
<td>History of the English Language</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Ethnic Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNSTDY 3410</td>
<td>Chicano Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3730</td>
<td>Black Literature in America</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3740</td>
<td>Asian American Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3750</td>
<td>American Literature of Ethnicity and Immigration</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3760</td>
<td>Wisconsin Indian Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3010</td>
<td>Race, Gender, and U.S. Labor</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3630</td>
<td>Ethnic and Gender Equity in Education</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**International Education**

<table>
<thead>
<tr>
<th>Course</th>
<th>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>

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.

**Required Courses (15 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</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>
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**Elective Course (3 credits)**
Select one course from one area below:

**Humanities**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>ENGLISH 3250</td>
<td>Sociolinguistics</td>
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<tr>
<td>ENGLISH 3940</td>
<td>Grammar in Context</td>
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</tr>
<tr>
<td>ENGLISH 4620</td>
<td>History of the English Language</td>
<td>3 cr</td>
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</tbody>
</table>

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 (Cross offering: ENGLISH 3750)
ETHNSTDY 3760 Wisconsin Indian Literature 3 cr
(Cross offering: ENGLISH 3760)
ETHNSTDY 3010 Race, Gender, and US Labor History 3 cr
(Cross offering: HISTORY 3010)
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 3730) 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

Interdisciplinary Film and Media Studies Minor (24 credits)
Required Courses (15 credits):
ENGLISH 2250 Introduction to Film 3 cr
ENGLISH 2770 International Cinema 3 cr
OR
ENGLISH 2780 Race and Gender in American Film 3 cr
ENGLISH 4780 Advanced Topics in Film Studies 3 cr
MEDIA 1630 Introduction to Mass Media 3 cr
MEDIA 2470 Production Foundations 3 cr

Elective courses (9 credits from the following list; no more than 6 from any one discipline):
ENGLISH 3050 Introduction to Literary Theory and Criticism 3 cr
ENGLISH 3330 English Drama 3 cr
ENGLISH 3530 American Drama 3 cr
ENGLISH 3890 Film and Literature 3 cr
MEDIA 3100 Topics in Communication (by permission) 3 cr
MEDIA 3580 Documentary 3 cr
MEDIA 3770 Theories in Media and Culture 3 cr
MEDIA 3930 Communication Law 3 cr
THEATRE 2130 Play Reading and Analysis 3 cr
WOMSTD 3200 Gender and Popular Culture 3 cr

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):
COMPUTER 3030 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 3940 Grammar in Context 3 cr
ENGLISH 4020 History and Theory of Rhetoric 3 cr
ENGLISH 4120 Advanced Manuscript Workshop 3 cr
ENGLISH 4620 History of the English Language 3 cr
ENGLISH 4680 Writing Internship 3 cr
MEDIA 2030 Basic Newswriting and Reporting 3 cr
MEDIA 2110 Applied Communication (repeatable) 1 cr
MEDIA 3120 Applied Communication (repeatable) 2 cr
MEDIA 3830 Editing for Print 3 cr
Prereqs/coreqs: P: ENGLISH 1130 and ENGLISH 1230

Foreign Languages
www.uwplatt.edu/foreignlanguages

Contact: Laura Anderson
Office: 228 Warner Hall
Phone: 608.342.1171
E-mail: andersla@uwplatt.edu

Professors: Laura Anderson (French/Spanish)
Assistant Professor: Madelon Köhler-Busch (German)
Raymond Spoto (Spanish)
Associate Professors: Mark Evenson (Spanish)
Lecturers: Edina Haslauer (German)
Chris Schulenburg (Spanish)
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

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:
FRENCH 1040 Elementary French (or equivalent) 4 cr
FRENCH 1140 Elementary French (or equivalent) 4 cr
FRENCH 2040 Intermediate French (or equivalent) 4 cr
FRENCH 2140 Intermediate French (or equivalent) 4 cr
FRENCH 3000 Foreign Language Travel 1-4 cr

Abroad Seminar

(Teaching minors may take at least two credits for purpose of immersion)
FRENCH 3220 Advanced French Grammar and 2 cr
Composition
FRENCH 3240 Advanced French Conversation 2 cr
FRENCH 3530 Topics in French Literature 1-3 cr
and Culture
FRENCH 4050 Supervised Independent Study 1-4 cr
FRENCH 4060 Survey of French Literature 3 cr
and Culture I
FRENCH 4160 Survey of French Literature 3 cr
and Culture II

Required School of Education Course:
TEACHING 4060 Teaching World Languages: 3 cr
Theory and Practice
(credit does not count toward minor)

German 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 PHLSPHY 1130 Introduction to Philosophy or PHLSPHY 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 Abroad Seminar 1-4 cr
(Required School of Education Course: TEACHING 4060 Teaching World Languages: Theory and Practice (credit does not count toward major or minor))
GERMAN 3220 German Conversation and Composition I 2 cr
GERMAN 3320 German Conversation and Composition II 2 cr
GERMAN 3330 German Literature of the 20th Century 3 cr
GERMAN 3430 German Literature 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

Spanish Minor (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 Civilization. Students who major in Spanish must have a grade 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).

Required School of Education Course:
TEACHING 4060 Teaching World Languages: Theory and Practice (credit does not count toward major or minor)

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 major). 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 Abroad Seminar 1-4 cr
(Required School of Education Course: TEACHING 4060 Teaching World Languages: Theory and Practice (credit does not count toward major or minor))
SPANISH 3220 Spanish Conversation and Composition I 2 cr
SPANISH 3320 Spanish Conversation and Composition II 2 cr
SPANISH 3330 Spanish Literature of the 20th Century 3 cr
SPANISH 3430 Spanish Literature of the 19th Century 3 cr
SPANISH 3530 Spanish Civilization 3 cr
SPANISH 3820 Spanish Conversation 2 cr
SPANISH 3830 Spanish Conversation 3 cr
SPANISH 3840 Topics in Hispanic Literature and Culture 1-3 cr
SPANISH 3850 Spanish American Literature and Culture I 3 cr
SPANISH 3860 Spanish American Literature and Culture II 3 cr
SPANISH 3920 Spanish Conversation and Composition I 2 cr
SPANISH 4620 Cervantes 2 cr
SPANISH 4720 Spanish Literature of the 20th Century 2 cr
SPANISH 4820 Phonetics 2 cr
SPANISH 4830 Introduction to Spanish Literature 3 cr
SPANISH 4850 Supervised Independent Study 1-4 cr
SPANISH 4930 Introduction to Spanish Literature 3 cr

Required School of Education Course:
TEACHING 4060 Teaching World Languages: Theory and Practice (credit does not count toward major or minor)
Philosophy

www.uwplatt.edu/philosophy

Contact: Shane Drefcinski
Office: 419 Warner Hall
Phone: 608.342.1828
E-mail: drefcins@uwplatt.edu

Professor:
Shane Drefcinski
Associate Professor:
Michael Sharkey
Assistant Professor:
Mary Lenzi

Lecturers:
Michael Bausch
Jeffrey Kupperman
T.A. Sandberg

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 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:

1. 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."

2. 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:
- PHILSPHY 1130 Introduction to Philosophy (3 cr)
- PHILSPHY 2130 Peace Studies: Issues, Ideas and Morality of Nuclear War (3 cr)
- PHILSPHY 2230 Contemporary Worldviews (3 cr)
- PHILSPHY 2330 Origins of Western Philosophy (3 cr)
- PHILSPHY 2430 Philosophy in the Modern World (3 cr)
- PHILSPHY 2530 Ethics (3 cr)
- PHILSPHY 2630 Logic (3 cr)
- PHILSPHY 3130 Philosophy of History (3 cr)
- PHILSPHY 3230 Philosophy of Religion (3 cr)
- PHILSPHY 3330 Ontology and Ethics (3 cr)
- PHILSPHY 3430 Social Philosophy (3 cr)
- PHILSPHY 3530 Philosophy’s Feminist Future: From Powerism to Personalism (3 cr)
- PHILSPHY 3630 Philosophy of Law (3 cr)
- PHILSPHY 4430 Seminar in Philosophy (3 cr)
- PHILSPHY 4660 Cooperative Field Experience (1-8 cr)
- PHILSPHY 4720 Individual Research in Philosophy (1-3 cr)

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.

Courses:
- PHILSPHY 1130 Introduction to Philosophy (3 cr)
- PHILSPHY 2230 Contemporary Worldviews (3 cr)
- PHILSPHY 2330 Origins of Western Philosophy (3 cr)
- PHILSPHY 2430 Philosophy in the Modern World (3 cr)
- PHILSPHY 2630 Logic (3 cr)

Two 3000-level seminars and one 4000-level seminar
DEPARTMENT OF PERFORMING AND VISUAL ARTS

www.uwplatt.edu/finearts

Department Chair: David Cooper
Office: 180 Doudna Hall
Phone: 608.342.1021
E-mail: cooperd@uwplatt.edu

Academic Department Associate: Amy Udelhofen

Majors

Art
• Art Emphasis
• Graphic Design Emphasis
• Art Education (B-21) Emphasis

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 art forms 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.

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................................. 48-60 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)

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Electives: 6 ART credits

Graphic Design Emphasis (49 credits)

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<td>Drawing I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2310</td>
<td>Drawing II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1410</td>
<td>Painting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2410</td>
<td>Painting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1420</td>
<td>Basic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1520</td>
<td>Basic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2140</td>
<td>Art History I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2210</td>
<td>Art History II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 4230</td>
<td>Theory of Art</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2240</td>
<td>Illustration I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2330</td>
<td>Illustration II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2710</td>
<td>Graphic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2740</td>
<td>Graphic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 3910</td>
<td>Graphic Design III</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 4030</td>
<td>Graphic Design IV</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 3740</td>
<td>Graphic Design V</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 4950</td>
<td>Senior Show</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

Bachelor of Science in Fine Arts
Art Education

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

Graphic design emphasis majors are required to have a minor in imaging media from the UW-Platteville Department of Communication Technologies. The course requirements include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 2090</td>
<td>Principles of Interactivity</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3030</td>
<td>Multimedia Projects</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Photography Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 3500</td>
<td>Photography II</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 4500</td>
<td>Photography III</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Graphic design emphasis majors are required to have a minor in imaging media from the UW-Platteville Department of Communication Technologies. The course requirements include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 2090</td>
<td>Principles of Interactivity</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3030</td>
<td>Multimedia Projects</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Concentrations (choose one):

New Media Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 2090</td>
<td>Principles of Interactivity</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 3030</td>
<td>Multimedia Projects</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Photography Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIA 3500</td>
<td>Photography II</td>
<td>3 cr</td>
</tr>
<tr>
<td>MEDIA 4500</td>
<td>Photography III</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Art Education Emphasis (59 credits)

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1010</td>
<td>Drawing I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2310</td>
<td>Drawing II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 3310</td>
<td>Drawing III</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1410</td>
<td>Painting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2410</td>
<td>Painting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1420</td>
<td>Basic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1520</td>
<td>Basic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2510</td>
<td>Sculpture I: Basic</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2140</td>
<td>Art History I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2210</td>
<td>Art History II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2730</td>
<td>Art History IV</td>
<td>3 cr</td>
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</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 3340</td>
<td>Art History III</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>ART 3530</td>
<td>Art History V</td>
<td>3 cr</td>
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<tr>
<td>ART 3220</td>
<td>Print Making I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 4230</td>
<td>Theory of Art</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1740</td>
<td>Introduction to Digital Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2920</td>
<td>Crafts I: Fiber and Fabrics</td>
<td>2 cr</td>
</tr>
<tr>
<td>ART 2520</td>
<td>Ceramics I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 4530</td>
<td>Art Education I: Elementary/</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>Middle School Methods</td>
<td></td>
</tr>
<tr>
<td>ART 4630</td>
<td>Art Education II: Middle/</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>High School Methods</td>
<td></td>
</tr>
<tr>
<td>ART 4930</td>
<td>Presentation and Marketing</td>
<td>2 cr</td>
</tr>
<tr>
<td>ART 4950</td>
<td>Senior Show</td>
<td>1 cr</td>
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**Electives:**

Select 3 ART credits

Art Minor (24 credits)

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1010</td>
<td>Drawing I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2310</td>
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</tr>
<tr>
<td>ART 1420</td>
<td>Basic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1520</td>
<td>Basic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2140</td>
<td>Art History I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2210</td>
<td>Art History II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 4230</td>
<td>Theory of Art</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Drawing I</td>
<td>3 cr</td>
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<tr>
<td>Painting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>Basic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>General requirements</td>
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</table>

**Year 1 - Second Semester:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Drawing II</td>
<td>3 cr</td>
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<tr>
<td>Painting II</td>
<td>3 cr</td>
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<tr>
<td>Basic Design II</td>
<td>3 cr</td>
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<tr>
<td>General requirements</td>
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</table>

Suggested second year core for fine art emphasis:

**Year 2 - First Semester:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Painting III</td>
<td>3 cr</td>
</tr>
<tr>
<td>Introduction to Digital Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>Art History I</td>
<td>3 cr</td>
</tr>
<tr>
<td>General requirements</td>
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</table>

**Year 2 - Second Semester:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawing III</td>
<td>3 cr</td>
</tr>
<tr>
<td>Art History II</td>
<td>3 cr</td>
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<tr>
<td>Sophomore portfolio review</td>
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<tr>
<td>General requirements</td>
<td></td>
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</tbody>
</table>

Suggested second year core for graphic design emphasis:

**Year 2 - First Semester:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>Art History I</td>
<td>3 cr</td>
</tr>
<tr>
<td>Minor courses</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>General requirements</td>
<td></td>
</tr>
</tbody>
</table>

**Year 2 - Second Semester:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>Art History II</td>
<td>3 cr</td>
</tr>
<tr>
<td>Minor courses</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>Sophomore portfolio review</td>
<td></td>
</tr>
<tr>
<td>General requirements</td>
<td></td>
</tr>
</tbody>
</table>

Suggested second year core for art education emphasis:

**Year 2 - First Semester:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Digital Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>Ceramics I</td>
<td>3 cr</td>
</tr>
<tr>
<td>Art History I</td>
<td>3 cr</td>
</tr>
<tr>
<td>General requirements</td>
<td></td>
</tr>
</tbody>
</table>

**Year 2 - Second Semester:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawing III</td>
<td>3 cr</td>
</tr>
<tr>
<td>Art History II</td>
<td>3 cr</td>
</tr>
<tr>
<td>Sculpture I</td>
<td>3 cr</td>
</tr>
<tr>
<td>Sophomore portfolio review</td>
<td></td>
</tr>
<tr>
<td>General requirements</td>
<td></td>
</tr>
</tbody>
</table>

Music

www.uwplatt.edu/music

**Department Chair:** David Cooper

**Office:** 180 Doudna Hall

**Phone:** 608.342.1021

**E-mail:** cooperd@uwplatt.edu

**Professors:**

- Robert K. Demaree
- Barry L. Ellis
- G. Daniel Fairchild

**Associate Professors:**

- Eugene Alcalay
- David Cooper

**Assistant Professor:**

- Susan Savage Day

**Lecturers:**

- Allen Cordingley
- Nicolas (Trey) Davis
- Rebekah Demaree
- Thomas Taylor Dickey
- Nancy Fairchild
- Stephanie Frye
- Vincent Fuh
- Matthew Gregg
- Dawn Lawler
- Keith Lienert
- John Marco
- Laura Medisky
- Mary Parkinson
- Robert Shepherd
- Christopher Van Hof
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 advisor 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

<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>44-58</td>
</tr>
<tr>
<td>Music courses</td>
<td>56-72</td>
</tr>
<tr>
<td>Professional education courses</td>
<td></td>
</tr>
<tr>
<td>(music majors only)</td>
<td>28</td>
</tr>
</tbody>
</table>

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>Code</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 1090</td>
<td>Bodywork for Musicians</td>
<td>1 cr</td>
</tr>
<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 Education</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 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 2450</td>
<td>World Music Survey</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 2530</td>
<td>Aural Skills III</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 2920</td>
<td>Beginning Conducting</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>
</tbody>
</table>
MUSIC  3350  History and Literature of Western Music IV  2 cr
MUSIC  3530  Orchestration and Arranging  2 cr
MUSIC  3630  Aural Skills IV  1 cr
MUSIC  3730  Music Theory IV - Form and Analysis  3 cr
MUSIC  3830  Music Theory V - 20th Century  2 cr
MUSIC  3920  Intermediate Conducting  2 cr
MUSIC  Performing Organizations (Major Ensemble) 7 cr
MUSIC  4290  Media, MIDI and Recording Technology  2 cr
MUSIC  Piano Proficiency 4th Semester*  4 cr
MUSIC  Master Class/Convocation (7 semesters)  0 cr
MUAP  Applied Instrument or Voice  6 cr
MUAP  4910  Recital Semester  2 cr

*Pianists must add four credits of voice or secondary instrument determined by the certification desired.

Choral Music Education Emphasis–B-21 (70 credits)

Includes Music Education Core Courses (59 credits):

MUSIC  2770  Diction I  1 cr
MUSIC  2870  Diction II  1 cr
MUSIC  3160  Elementary Music Methods for Non-Music Majors  3 cr
MUSIC  3460  Choral Music Methods I  2 cr
MUSIC  3560  Choral Music Methods II  2 cr
MUSIC  4320  Advanced Conducting - Choral  2 cr

General Music Education Emphasis–B-21 (66 credits)

Includes Music Education Core Courses (59 credits):

MUSIC  3860  Elementary Music Methods (for majors)  3 cr
MUSIC  3760  Secondary General Music Methods  2 cr
MUAP  Applied Voice  2 cr

Instrumental Music Education Emphasis–B-21 (73 credits)

Includes Music Education Core Courses (59 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  3260  Instrumental Music Methods I  2 cr
MUSIC  3360  Instrumental Music Methods II  2 cr
MUSIC  3660  Jazz Techniques  2 cr
MUSIC  4230  Advanced Conducting - Instrumental  2 cr

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)

MUSIC  1090  Bodywork for Musicians  1 cr
MUSIC  1190  World Rhythm Rudiments  1 cr
MUSIC  1290  Computer Applications in Music  1 cr
MUSIC  1730  Music Theory I - Music Theory Fundamentals w/MIDI  3 cr
MUSIC  1830  Music Theory II - Tonal Music Theory w/MIDI  3 cr
MUSIC  1530  Aural Skills I  1 cr
MUSIC  1630  Aural Skills II  1 cr
MUSIC  2730  Music Theory III - Advanced Tonal Theory, Counterpoint, and Composition  3 cr
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  3830  Music Theory V - 20th Century Music Theory  2 cr
MUSIC  2450  World Music Survey  3 cr
MUSIC  2250  History and Literature of Western Music I  2 cr
MUSIC  2350  History and Literature of Western Music II  2 cr
MUSIC  3250  History and Literature of Western Music III  2 cr
MUSIC  3350  History and Literature of Western Music IV  2 cr
MUSIC  2920  Beginning Conducting  2 cr
MUSIC  4290  Music Media, MIDI and Recording Technology  2 cr
MUAP  Performing Organizations (Major Ensemble)  8 cr
MUAP  Master Class/Convocation (7 semesters)  0 cr
MUAP  Applied Instrument or Voice  7 cr
MUAP  4910  Recitals Semester  2 cr
Instrumental Music Emphasis (62 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>
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<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>
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<td>1 cr</td>
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<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>
</tr>
<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>
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</tr>
<tr>
<td>MUSIC 3280</td>
<td>Wind Literature</td>
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</tr>
<tr>
<td>MUSIC</td>
<td>Performing Organization</td>
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</tr>
<tr>
<td>MUAP</td>
<td>Applied Lessons (1 extra semester)</td>
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Electives (5 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 2170</td>
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<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>
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<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 1XX0</td>
<td>Performing Organizations (Major Ensemble)</td>
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<tr>
<td>MUAP</td>
<td>Applied Voice (1 extra semester)</td>
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Music Electives 5 cr

Electives (6 credits):

<table>
<thead>
<tr>
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<th>Title</th>
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<tr>
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<td>3 cr</td>
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<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 Organizations</td>
<td>1 cr</td>
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<tr>
<td>(1 extra organization)</td>
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Music and Business Emphasis (1 extra semester) 1 cr

Music and Business Emphasis (80 credits)

Required Music Courses (56 credits):

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MUSIC 1290</td>
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<td>MUSIC 1730</td>
<td>Music Theory I - Music Theory Fundamentals w/MIDI</td>
<td>3 cr</td>
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<tr>
<td>MUSIC 1830</td>
<td>Music Theory II - Tonal Music Theory w/MIDI</td>
<td>3 cr</td>
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<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>
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<td>MUSIC 2530</td>
<td>Aural Skills III</td>
<td>1 cr</td>
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<td>MUSIC 3630</td>
<td>Aural Skills IV</td>
<td>1 cr</td>
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<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>
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<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>
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<tr>
<td>MUSIC 3830</td>
<td>Music Theory V: 20th Century Music Theory Recording Technology</td>
<td>2 cr</td>
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<td>MUSIC 4290</td>
<td>Music Media, MIDI and Recording Technology</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4510</td>
<td>Seminar in Music Business I</td>
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<tr>
<td>MUSIC 4520</td>
<td>Seminar in Music Business II</td>
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<td>Applied Instrument or Voice</td>
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<td>Recitals (one-half minimum)</td>
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<td>MUSIC</td>
<td>Performing Organizations</td>
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Electives (5 credits):

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<tbody>
<tr>
<td>MUSIC 3430</td>
<td>Jazz Improvisation and Theory</td>
<td>3 cr</td>
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<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 3280</td>
<td>Wind Literature</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3380</td>
<td>Choral Literature</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4290</td>
<td>Music Media, MIDI, and Recording Technology</td>
<td>2 cr</td>
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Electives (6 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<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 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 3280</td>
<td>Wind Literature</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3380</td>
<td>Choral Literature</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>ACCTING</td>
<td>Financial Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>Management Accounting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>Introduction to American Business Enterprise</td>
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<tr>
<td>BUSADMIN</td>
<td>Internship* (in a music related field)</td>
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<tr>
<td>BUSADMIN</td>
<td>Electives</td>
<td>4-11 cr</td>
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*Consult advisor to determine hours credited for internship.
Music Minor (26 credits)

<table>
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<tr>
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<th>Course Title</th>
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<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>
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<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 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 1340</td>
<td>Piano Techniques 1st Semester</td>
<td>1 cr</td>
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<tr>
<td>MUSIC 1440</td>
<td>Piano Techniques 2nd Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Master Class/Convocation (4 semesters)</td>
<td>0 cr</td>
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<tr>
<td>MUAP</td>
<td>Performing Organizations (major ensemble)</td>
<td>4 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Instrument or Voice</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

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).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Semester</th>
<th>Credits</th>
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<tr>
<td>MUAP</td>
<td>1010</td>
<td>1 cr</td>
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<tr>
<td>MUAP</td>
<td>1110</td>
<td>1 cr</td>
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<tr>
<td>MUAP</td>
<td>2010</td>
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<td>1 cr</td>
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<tr>
<td>MUAP</td>
<td>4910</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

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 |

Professor:  
Daniel Dahlquist
Lecturers:  
Martin Chisolm
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.
six productions are student-driven projects. The theatre program at UW-Platteville offers numerous hands-on learning opportunities. The 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.

Theatre

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.
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>
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<tr>
<th>Course</th>
<th>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>
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<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>
<td>3 cr</td>
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**Students must complete six credits of the following (at least two in Practicum II):**

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<tbody>
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<td>THEATRE 2220</td>
<td>Practicum I</td>
<td>1 cr</td>
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<tr>
<td>THEATRE 3450</td>
<td>Practicum II</td>
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**One of the following:**

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<tbody>
<tr>
<td>THEATRE 3210</td>
<td>Lighting Design</td>
<td>3 cr</td>
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<tr>
<td>THEATRE 3240</td>
<td>Costume Design</td>
<td>3 cr</td>
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<td>THEATRE 3250</td>
<td>Scenic Design</td>
<td>3 cr</td>
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**One of the following:**

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<tbody>
<tr>
<td>THEATRE 4210</td>
<td>Dramatic Literature I</td>
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<td>THEATRE 4220</td>
<td>Dramatic Literature II</td>
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**Electives:**

Students must complete six hours of electives

<table>
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<th>Course</th>
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<tr>
<td>THEATRE 1930</td>
<td>Voice and Diction</td>
<td>3 cr</td>
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<td>THEATRE 2500</td>
<td>Topics in Theatre</td>
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<td>THEATRE 2900</td>
<td>Dance for Musical Theatre</td>
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<td>THEATRE 2930</td>
<td>Actor in Musical Theatre</td>
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<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>
<tr>
<td>THEATRE 3900</td>
<td>Intermediate Dance</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3920</td>
<td>Classical Acting</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4830</td>
<td>Seminar in Theatre</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Minors seeking DPI certification for teaching are also required to take the following course:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 3220</td>
<td>Teaching Methods</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Students needing certification are encouraged to complete:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<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>
</tbody>
</table>

**Musical Theatre Minor (30 credits)**

**Required:**

<table>
<thead>
<tr>
<th>Course</th>
<th>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 2750</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</th>
<th>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

Professors:
Corinne Enright
Elizabeth Gates
Chetna Narayan
Theron Parsons
Joan E. Riedle
Marc Wruble

Assistant Professor:
Sean Shiverick

Lecturers:
Amy Baus
Becky Fernette
Valerie Gill-Mast
Craig Miller
Rita Udelhoven

Academic Department Associate:
Sue Vavricka

Majors
Psychology
Human Services Emphasis
Substance Abuse Counseling Emphasis
Social Sciences Comprehensive

Minor
Psychology

Mission
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
Total for graduation..............................120 credits
General education ............................44-58 credits
Major studies .........................................36 credits

Psychology Major (36 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 Code</th>
<th>Course 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>2 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 36 credits for the major.

Elective Category 1: Applied Courses (6 credits)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY/WS 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 2: Experimental-Content Courses (6 credits)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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>
<tr>
<td>PSYCHLGY  3430</td>
<td>Physiological Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY  3530</td>
<td>Social Psychology</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Elective Category 3: Clinical Courses (6 credits)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY  4430</td>
<td>Abnormal Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY/CJ 4840</td>
<td>Substance Abuse I: Theory and Assessment</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY/CJ 4850</td>
<td>Substance Abuse II: Intervention and Special Populations</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY  4930</td>
<td>Techniques of Counseling</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (4 credits):
(select additional courses from the above elective categories or from the following courses)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY  2010</td>
<td>Careers in Counseling</td>
<td>1 cr</td>
</tr>
<tr>
<td>PSYCHLGY/CJ 4840</td>
<td>Substance Abuse I: Theory and Assessment</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY  2030</td>
<td>Psychology of Personal Adjustment</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY  3630</td>
<td>Psychology of Human Sexuality</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY  3830</td>
<td>Psychology and Religion</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY  4020</td>
<td>Contemporary Issues in Psychology</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>PSYCHLGY  4660</td>
<td>Cooperative Field Experience*</td>
<td>1-8 cr</td>
</tr>
<tr>
<td>PSYCHLGY  4730</td>
<td>Independent Study in Psychology</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>PSYCHLGY  4940</td>
<td>Advanced Techniques of Counseling</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY  4950</td>
<td>Social Work Practice with Groups and Families</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

* Four credits of cooperative field experience may count toward the 36 credits required for the major; up to eight credits may count toward the 120 credits required for graduation.

Departmental Writing Requirements
In addition to the completion of 36 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. 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
3. Satisfactory completion of the junior writing exam. During the first semester of a student’s junior year, each major will write an essay that will be evaluated for writing competence and psychological content

Course Grade and Prerequisite Requirements
1. A grade of “C” or better must be earned in all psychology courses that contribute to the 36 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).
Upon declaring the psychology major, students must apply for admission to the Psychology Department. The admission requirements include:

1. A grade of "C" or better in Freshman Composition (ENGLISH 1130 and 1230)
2. A grade of "C" or better in General Psychology (PSYCHLGY 1130)
3. The completion of all remedial mathematics courses (if necessary)
4. The completion of nine credits of psychology courses with a grade of "C" or better. (This includes PSYCHLGY 1130.)
5. The completion of 42 semester credits at UW-Platteville
6. A cumulative G.P.A. of 2.50 or higher

Please contact the department chair for admission requirements for transfer students.

Note: If students intend to add the psychology major as a second major during their junior or senior year, they must obtain special permission from the department chair. Students wishing to add psychology as a second major their junior or senior year will not be allowed to add Behavioral Research I or History and Systems of Psychology until current psychology majors who need the courses to graduate have added the classes.

Psychology Emphases

Emphases within the major: Completion of an emphasis, a career-related minor or a second major is strongly recommended.

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 36 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY 4430</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY/CJ 4840</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4930</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4940</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4950</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4660</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY 3430</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4430</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4660</td>
<td>3 cr</td>
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<tr>
<td>PSYCHLGY/CJ 4840</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY/CJ 4850</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4930</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4940</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (6 credits)

Please see your advisor for details.

Psychology Minor (24 credits)

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY 1130</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 2230</td>
<td>3 cr</td>
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</table>

Elective Category 1: Applied Courses – select ONE from this section:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY 2530</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 2930</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3130</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3230</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3990</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4030</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4830</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Elective Category 2: Experimental-Content Courses – select ONE from this section:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYCHLGY 3000</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3030</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3430</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3530</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Elective Category 3: Clinical Courses – select ONE from this section:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY 4430</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4840</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4850</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4930</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

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, economics, geography, history, political science or sociology. Please refer to the catalog section Social Sciences Comprehensive for details.
SOCIAL AND ENVIRONMENTAL JUSTICE PROGRAM

Director: Adam Stanley  
Office: 150 Gardner Hall  
Phone: 608.342.6012  
E-mail: stanleya@uwplatt.edu

About the Social and Environmental Justice Program and Minor
The UW-Platteville Social and Environmental Justice Program Council includes the following faculty and staff, plus one to two student members:

Adam Stanley, associate professor of history, SEJ program director; Natalie Adams, UW-Platteville Foundation development officer; Donna Anderson, director of International Programs; Barbara Parsons, professor emerita of philosophy; Michael Sharkey, associate professor of philosophy; and Richard Waugh, professor of geography.

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 it, “is not merely the absence of tension – it is the presence of justice.”

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)
Requirements include SEJ 2230 Introduction to Social and Environmental Justice 3 cr, SEJ 4660 Cooperative Field Experience 3 or 6 cr, and SEJ 4940 Capstone Seminar 3 cr. The remaining credit requirements must include at least one course from each of the following groups.

**Group One: International Social-Political-Economic-Environmental Issues**
Contextual or overview courses (C), topical course (T)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 2330</td>
<td>World Population, Food, and Resources (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3750</td>
<td>American Literature of Ethnicity and Immigration (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2130</td>
<td>Peace Studies: Issues, Ideas, and Morality of Nuclear War (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3630</td>
<td>Philosophy of Law (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 4430</td>
<td>Seminar in Philosophy: Theories of Justice (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 4430</td>
<td>Seminar in Philosophy: Utopianism and Human Nature (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>WOMSTD 3330</td>
<td>Women and Globalization (T)</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Group Two: Historical Perspectives on Social and Environmental Justice**
Contextual or overview courses (C), topical course (T)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRPHY 1230</td>
<td>Survey of Cultural Geography (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3330</td>
<td>Environmental Conservation (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3430</td>
<td>Geography of Africa (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3630</td>
<td>Geography of Latin America (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3930</td>
<td>Geography of Asia (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 4230</td>
<td>Political Geography (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY XX30</td>
<td>Geography of the Middle East (C)</td>
<td>3 cr</td>
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<tr>
<td>HISTORY 3070</td>
<td>Latin American History (C)</td>
<td>3 cr</td>
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<tr>
<td>HISTORY 3450</td>
<td>History of U.S. Foreign Relations (C)</td>
<td>3 cr</td>
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<tr>
<td>HISTORY 3640</td>
<td>Imperialism in Africa and Asia (C)</td>
<td>3 cr</td>
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<td>HISTORY 3920</td>
<td>Modern Middle East (C)</td>
<td>3 cr</td>
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<tr>
<td>HISTORY 3930</td>
<td>East Asia (C)</td>
<td>3 cr</td>
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<tr>
<td>HISTORY 3970</td>
<td>Modern China (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 2940</td>
<td>Economics of Race, Gender, and Ethnicity (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3720</td>
<td>Politics of the Global Economy (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI XXXX</td>
<td>International Human Rights (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 2130</td>
<td>Cultural Anthropology (C)</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Group Three: Contemporary Worldviews

Contextual or overview courses (C), topical course (T)

ART  2730  Art History IV: Ethnic Art in the U.S. (C)  3 cr
ART  2750  Native American Art (C)  3 cr
ENGLISH  2650  World Literature II (C)  3 cr
ENGLISH  3740  Asian American Literature (C)  3 cr
PHLSPHY  2230  Contemporary World Views (C)  3 cr
PHLSPHY  2930  Major Traditions in Eastern Religions (C)  3 cr
SPANISH  4720  Spanish Literature of the 20th Century (C)  2 cr
SPEECH 2300  Introduction to Intercultural Communication (C)  3 cr

Group Four: Ethics

Topical course (T)

PHLSPHY  2530  Ethics (T)  3 cr
PHLSPHY  2540  Science, Technology, and Ethics (T)  3 cr
PHLSPHY  3530  Feminist Philosophy (T)  3 cr

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 3 cr, and one course in each of groups one through four. 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.

Students interested in the certificate program should consult their academic advisor or the director of the Social and Environmental Justice Program.

www.uwplatt.edu/socialsci

Department Chair: Nancy Turner
Office: 152 Gardner Hall
Phone: 608.342.1789
E-mail: turnern@uwplatt.edu

Academic Department Associate: Mary Kurth

Majors

Geography
History
International Studies
Political Science
Social Sciences Comprehensive
  Geography Emphasis
  History Emphasis
  Psychology Emphasis

Minors

Geography
Geology
Environmental Science
History
International Studies
Political Science
Social Sciences Comprehensive
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.
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.

Geography
www.uwplatt.edu/geography

Contact:  J. Elmo Rawling III  
Office:  256 Gardner Hall  
Phone:  608.342.1680  
E-mail:  rawlingj@uwplatt.edu

Professor:  Richard A. Waugh
Associate Professors:  J. Elmo Rawling III  
                     H. Todd Stradford  
                     Mari A. Vice
Assistant Professors:  Evan Larson  
                      Rex J. (RJ) Rowley
Lecturer:  James Valiga

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 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.

The geography and geology programs at UW-Platteville are housed within the Department of Social Sciences. We offer a major and minor in geography as well as a minor in geology. Geography students explore the human and natural world through classroom, laboratory, and field experiences, as well as through individual research, internships, and attendance at professional meetings. They learn to use modern computer equipment and the latest software and databases. The geography student is creative, enjoys challenges, can learn through observation and research, and enjoys the satisfaction of improving global conditions.

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 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
- GEOGRPHY 3530 Topics in Regional Geography 2-3 cr
- GEOGRPHY 3630 Geography of Latin America 3 cr
- GEOGRPHY 3730 Geography of Europe 3 cr
- GEOGRPHY 3930 Geography of Asia 3 cr

**Field Experiences Focus**

- GEOGRPHY 2250 Tropical Marine Ecosystems 3 cr
- GEOGRPHY 3120 Geography of Wisconsin 3 cr
- GEOGRPHY 3750 Field Geography of the Western United States 1-4 cr
- GEOGRPHY 3960 Geography of Japan 6 cr
- GEOGRPHY 4760 Geography Field Study 1-8 cr

**Electives (only six credits count toward major):**

- AGSCI 2230 Soils 4 cr
- AGSCI 3330 Soil Morphology and Classification 3 cr
- BIOLOGY 2420 Fundamentals of Biological Investigations 2 cr
- ENGLISH 3000 Technical Writing 3 cr

Geography Minor (24 credits)
The geography minor is designed to offer broad training in physical and human geography content and techniques giving students diverse knowledge applicable to a wide range of careers. Students will explore the human and natural world through classroom, laboratory, and field experiences. This minor offers important skills for careers in planning, travel-tourism, teaching, criminal justice, agriculture, natural resource management, and international affairs.

**Student Learning Outcomes**

Graduates will:
1. Recognize the unique subject and methods of geography
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. Be able to use geographical concepts in contributing to the solution of societal and environmental problems

**Required Core Courses:**

- One course from physical geography focus 4 cr
- One course from human geography focus 3 cr
- Additional geography courses 17 cr

**Geology**

www.uwplatt.edu/geography

Contact:  Mari A. Vice
Office:  252 Gardner Hall
Phone:  608.342.1055
E-mail:  vice@uwplatt.edu

**About the Geology Program and Minor**

A minor in geology demonstrates the relationship between the earth sciences and other fields. It provides students in reclamation, biology, engineering, and other allied areas with a sound basis in geology essential for professional work. Practical field experience emphasizes biological evolution, geological history, and environmental problems.
Geology Minor (24 credits)

Introductory Course in Geology (3-4 credits):

GEOLOGY 1040 General Geology 4 cr
GEOLOGY 1140 Physical Geology 4 cr
GEOLOGY 3130 Engineering Geology 3 cr

Required Courses (13 credits):

GEOLOGY 3040 Mineralogy and Lithology 4 cr
GEOLOGY 3230 Sedimentary Geology 3 cr
GEOLOGY 3830 Field Methods and Mapping 3 cr
GEOLOGY 4030 Economic Geology 3 cr

Electives (8-9 credits):

AGSCI 2230 Soils 3 cr
GEOGRPHY 2230 Cartography and Graphics 3 cr
GEOGRPHY 3230 Geographic Information Systems 3 cr
GEOLOGY 3430 Hydrology 3 cr
CHEMSTRY 3130 Environmental Chemistry 3 cr
BIOLOGY 2450 Fungi, Algae, and Bryophytes 4 cr
BIOLOGY 2640 Invertebrate Zoology 4 cr
BIOLOGY 3030 Ornithology 3 cr
BIOLOGY 3110 Fresh Water Biology 3 cr
BIOLOGY 3230 Mammalogy 3 cr
BIOLOGY 3340 Entomology 4 cr
BIOLOGY 3460 Ecological Methods and Research** 3 cr
BIOLOGY 3650 Plant Communities of Wisconsin 4 cr
BIOLOGY 3660 Animal Communities of Wisconsin 3 cr
CIVILENG 4710 Selected Regional Habitats 1-3 cr
CIVILENG 4300 Hydrology 3 cr
CIVILENG 4310 Groundwater Hydrology 3 cr

Environmental Science

www.uwplatt.edu/geography/envmnscl/envmnscl.html

About the Environmental Science Minor

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.

Environmental Science Minor (24 credits)

Requirements (18 credits)

Core Courses (9 credits):

GEOGRPHY 3330 Environmental Conservation 3 cr
BIOLOGY 3450 Ecology and Evolution* 3 cr
CRIMLJUS 4030 Environmental Law 3 cr

One Physical Processes Course from (4 credits):

GEOGRPHY 1140 Global Landforms 4 cr
GEOLOGY 1140 Physical Geology 4 cr

Five credits of Chemistry chosen from:

CHEMSTRY 1050 General Chemistry 5 cr
CHEMSTRY 1140/1240 General Chemistry Sequence 8 cr
CHEMSTRY 1450 Chemistry for Engineers 5 cr

Electives (minimum 6 credits):

GEOGRPHY 1240 Weather and Climate 4 cr
GEOGRPHY 1370 Global Vegetation 4 cr
GEOGRPHY 3230 Introduction to Geographic Information Systems 4 cr
GEOGRPHY 3340 Biogeography 4 cr
GEOGRPHY 3750 Field Geography of the Western U.S. 1-4 cr
GEOGRPHY 3840 Soil Geomorphology 4 cr
PHLSPHY 2540 Science, Technology, and Ethics 3 cr
AGSCI 2230 Soils 3 cr
GEOLOGY 3430 Hydrology 3 cr
CHEMSTRY 3130 Environmental Chemistry 3 cr
BIOLOGY 2450 Fungi, Algae, and Bryophytes 4 cr
BIOLOGY 2640 Invertebrate Zoology 4 cr
BIOLOGY 3030 Ornithology 3 cr
BIOLOGY 3110 Fresh Water Biology 3 cr
BIOLOGY 3230 Mammalogy 3 cr
BIOLOGY 3340 Entomology 4 cr
BIOLOGY 3460 Ecological Methods and Research** 3 cr
BIOLOGY 3650 Plant Communities of Wisconsin 4 cr
BIOLOGY 3660 Animal Communities of Wisconsin 3 cr
CIVILENG 4710 Selected Regional Habitats 1-3 cr
CIVILENG 4300 Hydrology 3 cr
CIVILENG 4310 Groundwater Hydrology 3 cr

* 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 (24 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 that 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.

Required Core Courses:

COMPUTER 1130 Introduction to Programming 3 cr
GEOGRPHY 2230 GIS: Thematic Mapping 3 cr
GEOGRPHY 3230 Introduction to Geographic Information Systems 4 cr
GEOGRPHY 3720 GIS: Digital Image Analysis 3 cr
GEOGRPHY 4330 Advanced GIS & GPS 4 cr
Electives (6 credits):

- MATH 1830 Elementary Statistics 3 cr
- GEOGRPHY 3520 Remote Sensing and Photogrammetry 3 cr
- GEOGRPHY 3560 Oceanography 4 cr
- GEOGRPHY 3670 Coastal Ecosystems 3 cr
- GEOGRPHY 3840 Soil Geomorphology 4 cr
- GEOGRPHY 4120 Topical Seminar 2-3 cr
- GEOGRPHY 4660 Cooperative Field Experience 1-8 cr

History

www.uwplatt.edu/socialsci/history/history.html

Contact:
Nancy Turner
Office: 152 Gardner Hall
Phone: 608.342.1789
E-mail: turnern@uwplatt.edu

Professors:
David Krugler
Paula M. Nelson
David Rowley
Nancy Turner

Associate Professors:
Joong-Jae Lee
Adam Stanley

Associate Professor:
Melissa Gormley

Senior Lecturers:
Ruth Alcalay
Delbert Carey
Tracey Roberts

Lecturer:
Scott Gurman

About the History Program and Major

The UW-Platteville Department of Social Sciences offers a major and minor in history. History is the systematic study of the past. History is 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.

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

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:

- 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 4900 Historiography and Research Methods 3 cr

Choose two of the following U.S. History courses:

- HISTORY 3010 Race, Gender, and U.S. Labor History 3 cr
- HISTORY 3080 American Military History 3 cr
- HISTORY 3120 American Colonial History 3 cr
- HISTORY 3130 The New Nation 3 cr
- HISTORY 3140 The Civil War and Reconstruction 3 cr
- HISTORY 3150 Gilded Age and Progressive Era 3 cr
- HISTORY 3230 The West in American History 3 cr
- HISTORY 3240 African-American History 1619 to Present 3 cr
- HISTORY 3320 The History of Wisconsin 3 cr
- HISTORY 3400 The Vietnam War 3 cr
- HISTORY 3410 The United States, 1898-1945 3 cr
- HISTORY 3430 Twentieth Century America 3 cr
- HISTORY 3450 History of U.S. Foreign Relations 3 cr
- HISTORY 3480 The United States Since 1945 3 cr
- HISTORY 3520 American Women 3 cr
- HISTORY 4230 Issues in History (U.S. topics) 3 cr
Choose two of the following European History courses:

- HISTORY 3610 British Isles to 1714 3 cr
- HISTORY 3620 British Isles since 1714 3 cr
- HISTORY 3700 Women in European Civilization 3 cr
- HISTORY 3710 Ancient Civilizations 3 cr
- HISTORY 3730 Medieval Europe 3 cr
- HISTORY 3740 Renaissance and Reformation Europe 3 cr
- HISTORY 3810 Early Modern Europe 3 cr
- HISTORY 3830 French Revolution and Napoleon 3 cr
- HISTORY 3850 Twentieth Century Europe 3 cr
- HISTORY 3860 History of Western Science 3 cr
- HISTORY 3870 Nazi Germany and the Holocaust 3 cr
- HISTORY 3880 Modern European Thought 3 cr
- and Culture

Choose one of the following Non-Western courses:

- HISTORY 3460 Modern Africa 3 cr
- HISTORY 3640 Imperialism in Africa and Asia 3 cr
- HISTORY 3650 Women and Gender in Latin American History 3 cr
- HISTORY 3660 Colonial Latin America 3 cr
- HISTORY 3670 Modern Latin America 3 cr
- HISTORY 3920 Modern Middle East 3 cr
- HISTORY 3950 Modern Japan 3 cr
- HISTORY 3970 Modern China 3 cr
- HISTORY 4230 Issues in History (European topics) 3 cr

Choose three elective courses from the above lists.

Students may also enroll in:

- HISTORY 4660 Cooperative Field Experience 1-8 cr
- HISTORY 4720 Independent Research in History 1-3 cr

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:

- 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

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

Political Science

www.uwplatt.edu/socialsci/polysci/polysci.html

Professors:
- Rosalyn Broussard
- John R. Rink

Assistant Professor:
- Shan Sappleton

Associate Professor:
- Travis Nelson

Senior Lecturer:
- Scott Nikolai

Lecturer:
- Nancy Hammermeister

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

Contact: John Rink
Office: 140 Gardner Hall
Phone: 608.342.1795
E-mail: rink@uwplatt.edu
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
- SOCIOLGY 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
- POLISCI 3230 Introduction to Public Administration 3 cr
- POLISCI 3320 Congressional Politics 3 cr
- POLISCI 3330 American Political Parties 3 cr
- POLISCI 3340 Modern Japan 3 cr
- POLISCI 3350 Modern China 3 cr
- POLISCI 3520 Judicial Process 3 cr
- POLISCI 3530 State and Local Government 3 cr
- POLISCI 3720 Politics of the Global Economy 3 cr
- POLISCI 3730 Ethnic Rights and Politics 3 cr
- POLISCI 3750 International Human Rights 3 cr
- POLISCI 3760 International Security 3 cr
- POLISCI 3830 Civil Liberties 3 cr
- POLISCI 4120 Modern Russia 3 cr
- POLISCI 4420 Constitutional Law 3 cr
- POLISCI 4660 Cooperative Field Experience 1-8 cr
- POLISCI 4720 Study and Research 1-3 cr
  in Political Science
- POLISCI 4730 Trial Advocacy
- POLISCI 4760 Seminar in Selected Topics 1-3 cr
  in Political Science

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:
- POLISCI 1130 Introduction to Politics 3 cr
- POLISCI 1230 Introduction to American Government 3 cr
- POLISCI 1330 International Relations 3 cr

Choose 15 credits from the list above

International Studies Program
www.uwplatt.edu/socialsci/international/international.html
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
- GEOGRPHY 1230 Survey of Cultural Geography 3 cr
- GEOGRPHY 2250 Tropical Marine Ecosystems 3 cr
- GEOGRPHY 3030 Economic Geography 3 cr
- GEOGRPHY 3330 Environmental Conservation 3 cr
- GEOGRPHY 3350 Geography and Development of Middle East Geography 3 cr
- GEOGRPHY 3430 Geography of Africa 3 cr
- GEOGRPHY 3530 Topics in Regional Geography 2-3 cr
- GEOGRPHY 3630 Geography of Latin America 3 cr
- GEOGRPHY 3730 Geography of Europe 3 cr
- GEOGRPHY 3930 Geography of Asia 3 cr
- GEOGRPHY 3960 Geography of Japan 3 cr
- GEOGRPHY 4230 Political Geography 3 cr
- HISTORY 3460 History of Modern Africa 3 cr
- HISTORY 3640 Imperialism in Africa and Asia 3 cr
- HISTORY 3650 Women and Gender in Latin American History 3 cr
- HISTORY 3660 Colonial Latin American History 3 cr
- HISTORY 3670 Modern Latin American History 3 cr
- HISTORY 3920 Modern Middle East 3 cr
- HISTORY 3930 East Asia 3 cr
- HISTORY 3950 Modern Japan 3 cr
- HISTORY 3970 Modern China 3 cr
- HISTORY 4110 Russia to 1856 3 cr
- HISTORY 4120 Modern Russia 3 cr
- MUSIC 2450 World Music Survey 3 cr
- PHILSPHY 2230 Contemporary Worldviews 3 cr
- PHILSPHY 2930 Major Traditions in Eastern Religions 3 cr
- POLISCI 2430 Comparative Politics 3 cr
- POLISCI 3340 Modern Japan 3 cr
- POLISCI 3350 Modern China 3 cr
- POLISCI 3720 Politics of the Global Economy 3 cr
- POLISCI 3750 International Human Rights 3 cr
- POLISCI 3760 International Security 3 cr
- POLISCI 4120 Modern Russia 3 cr
- SEJ 2230 Introduction to Social and Environmental Justice 3 cr
- SOCIOLGY 1130 Introduction to Anthropology 3 cr
- SPEECH 2300 Introduction to Intercultural Communication 3 cr

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):
- GEOGRPHY 1330 World Regional Geography 3 cr
- HISTORY 1020 World Civilization II 3 cr
- POLISCI 1330 International Relations 3 cr

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.
Social Sciences Comprehensive
www.uwplatt.edu/socialsci/comp/comp.html

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
History Office: 152 Gardner Hall
Phone: 608.342.1789
E-mail: turnern@uwplatt.edu

Geography Emphasis
Contact: J. Elmo Rawling III
Geography Office: 256 Gardner Hall
Phone: 608.342.1680
E-mail: rawlingj@uwplatt.edu

Psychology Emphasis
Contact: Elizabeth Gates
Psychology 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 geography, history, or psychology is required; this is considered the area of emphasis. Students who wish 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.

Geography Emphasis (63 credits)
Geography Required Courses:
GEOGRPHY 1040 Planet Earth 4 cr
GEOGRPHY 1140 Global Landforms 4 cr
or GEOGRPHY 1240 Physical Geography: Weather and Climate 4 cr
GEOGRPHY 1330 World Regional Geography 3 cr
GEOGRPHY 2230 GIS: Thematic Mapping 4 cr
GEOGRPHY 3030 Economic Geography 3 cr
GEOGRPHY 4030 Seminar in Geographic Development and Methodology 3 cr
GEOGRPHY XXXX Five more credits in geography

Students planning to teach must take GEOGRPHY 3330 Environmental Conservation and are strongly urged to take GEOGRPHY 3120 Geography of Wisconsin.

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 Three 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 1230 Introduction to American Government 3 cr
POLISCI 1330 International Relations 3 cr

Psychology Required Courses:
PSYCHLGY 1130 General Psychology 3 cr
PSYCHLGY 3530 Social Psychology 3 cr

Sociology Required Courses:
SOCIOLGY 1030 Principles of Sociology 3 cr
SOCIOLGY 2330 Contemporary Social Problems 3 cr
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 1230 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
ECONOMIC 3530 Economic History of the U.S. 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:
PSYCHLGY 1130 General Psychology 3 cr
PSYCHLGY 3530 Social Psychology 3 cr

The following may be used as an elective:
PSYCHLGY 2530 Psychology of Women 3 cr
PSYCHLGY 3630 Psychology of Human Sexuality 3 cr
PSYCHLGY 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 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:
PSYCHLGY 1130 General Psychology 3 cr
PSYCHLGY 2230 Intro to Experimental Psychology 3 cr
PSYCHLGY 3130 Child Psychology 3 cr
or
PSYCHLGY 3230 Adolescent Psychology 3 cr
PSYCHLGY 4030 Theories of Personality 3 cr
or
PSYCHLGY 4430 Abnormal Psychology 3 cr
PSYCHLGY XXXX 12 more credits of psychology

Geography Required Courses:
GEOGRPHY 1330 World Regional Geography 3 cr
GEOGRPHY 3030 Economic Geography 3 cr
GEOGRPHY 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 in geography

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

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 Minor (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:**
- GEOGRAPHY 1330 World Regional Geography 3 cr
- Note: GEOGRAPHY 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 1230 Marriage and Family 3 cr
- or
- 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
- SOCIOLGY 3430 Social Research 3 cr
- SOCIOLGY 3530 Rural Sociology 3 cr
- SOCIOLGY 3630 Sociology of the Family 3 cr
- SOCIOLGY 3930 Topics in Sociology 1-3 cr
- SOCIOLGY 4030 Social Organizations 3 cr
- SOCIOLGY 4730 Individual Study 1-3 cr

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. Students who complete sequences of courses in the specific disciplines listed below may be licensed to teach those specific disciplines in middle and high school.

**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.

- SOCIOLGY 1030 Principles of Sociology 3 cr
- SOCIOLGY 1130 Introduction to Anthropology 3 cr
- SOCIOLGY 1230 Marriage and Family 3 cr
- 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
- SOCIOLGY 3430 Social Research 3 cr
- SOCIOLGY 3530 Rural Sociology 3 cr
- SOCIOLGY 3630 Sociology of the Family 3 cr
- SOCIOLGY 3930 Topics in Sociology 1-3 cr
- SOCIOLGY 4030 Social Organizations 3 cr
- SOCIOLGY 4730 Individual Study 1-3 cr

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.

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**

[www.uwplatt.edu/socialsci/socio/socio.html](http://www.uwplatt.edu/socialsci/socio/socio.html)

**Contact:**
- Michael G. Dalecki
- Office: 136 Gardner Hall
- Phone: 608.342.1807
- E-mail: dalecki@uwplatt.edu

**Professor:**
- Michael G. Dalecki

**Assistant Professor:**
- Claudine Pied

**Lecturer:**
- Bridget Conlon

**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.
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.

- Linda Bernhardt, Psychology
- Jackie Bodden, Women's and Gender Studies
- Rosalyn Broussard, Political Science
- Teresa Burns, English
- Pat Foster, Women's Center
- Valerie Gill-Mast, Psychology
- Melissa Gormley, History
- J. Keith Hale, English
- Rea Kirk, Education
- Mary Lenzi, Philosophy
- Richard Moninski, Fine Art
- Scott Nikolai, Political Science
- Florence Omachonu, Education
- Regina Pauly, Karrmann Library
- Adam Stanley, History
- Tammy Salmon-Stephens, Engineering
- Kathleen Tigerman, English
- Amanda Tucker, English
- Nancy Turner, History
- Laura Wendorff, English
- Mary Rose Williams, Media Studies

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 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)**
- WOMSTD 2230 Women, Sex Roles and Society 3 cr
- WOMSTD 2530 Psychology and Women 3 cr
- WOMSTD 2730 Women in Science and Engineering 3 cr
- WOMSTD 3340 Management, Gender, and Race 3 cr
- WOMSTD 3630 Ethnic and Gender Equity in Education 3 cr

**Group Two: Humanities, Fine Arts, Historical Perspective (3 credits)**
- WOMSTD 2830 Survey of Women Writers 3 cr
- WOMSTD 2930 Minority Women Writers of the U.S. 3 cr
- WOMSTD 3430 Women and the Arts 3 cr
- WOMSTD 3520 American Women's History 3 cr
- WOMSTD 3530 Philosophy's Feminist Future: From Powerism to Personalism 3 cr
- WOMSTD 3700 Women in European Civilization 3 cr
- WOMSTD 4500 Women and Mythology: Goddess, Witch, Sibyl 3 cr

**Group Three: Advanced Women's Studies (3 credits)**
- WOMSTD 4660 Cooperative Field Experience 3 cr
- WOMSTD 4730 Individual Research in Women's Studies 3 cr

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.

Women's and Gender Studies Certificate (15 credits)
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 Title</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.

SCHOOL OF EDUCATION

www.uwplatt.edu/education

Mission of the School of Education
The mission of the School of Education is to serve the pre and in-service needs of professionals in southwestern Wisconsin and beyond.

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, including the provision of programs in teacher education and a specialized program in middle school education. Multitudes of formal and informal partnerships exist within the university community, local school districts, and other agencies and industries wherein reciprocal services are provided.

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

Teacher Licensure
Licensure Requirements
Approved Licensure Programs
Statutory and Administrative Code Requirements

Teacher Education
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)
Special Education/Inclusion minor

Counseling Psychology
School Counseling (graduate program only)

Physical Education and Health
Physical Education and Health

Director: Karen Stinson, Ed.D.
Office: 139 Doudna
Phone: 608.342.1245 or 608.342.1131
E-mail: stinsonk@uwplatt.edu

University Services Program Associates:
Liz Runde
Jessica Leibfried

Academic Department Associate:
Judy Belken

University Services Associates:
Mary Fischer
Mary Jo Durni
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
Undergraduate program areas within the School of Education include physical education/health and teacher education. 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

Physical Education and Health
Contact: Colleen McCabe, Ed.D.
E-mail: mccabec@uwplatt.edu
Phone: 608.342.1573

Teacher Education
Contact: Karen Stinson, Ed.D.
E-mail: stinsonk@uwplatt.edu
Phone: 608.342.1131

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, and for National Council for Accreditation of Teacher Education/Council for the Accreditation of Educator Preparation approval.

Education Office of Special Programs
The Education Office of Special Programs provides administrative support to many teacher education programs and, in particular, the cross-categorical special education, educational administration, 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 Office of 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 Pre-Professional Skills Test in their freshman year. 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 PPST. Passing scores for 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 (2010 is strongly recommended though 1010 will satisfy the speech requirement), TEACHING 1230 Introduction to Education or PHYSED 2320 Introduction to Physical Education and Health Promotion and 2010 Computer Applications in Education
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 either a low grade point average or unsatisfactory scores on any subsection of the PPST. 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
6. Have been admitted to the School of Education for one full semester prior to 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. Obtain a license application from the certification officer of the School of Education
5. Pay the required fee and submit the completed application to the certification officer of the School of Education

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)
- Physical Education: School of Education (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: School of Education (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): Physical Education and Health (LAE)

Economics: UW-Platteville Department of Social Sciences (LAE)

Geography: UW-Platteville Department of Social Sciences (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 fulfills 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.” AGINDUS 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.

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.

Professors:
Rea Kirk
William McBeth
John F. Nkemnji
Karen Stinson

Associate Professors:
Leigh Monhardt
Wonim Son

Assistant Professors:
Lindsay Hollingsworth
Daniel Leitch
Florence Omachonu

Lecturers:
Dave Chellevold
Linda Doser
Ted Evans
Linda Gard
Jodean Grunow
Nancy Hammermeister
Edina Haslauer
Tim Hazen
Dale Henze
Kerry Hogan
Gail Otte
Nichole Schweitzer
Nan Welch
**General Requirements**

**Communication Skills:**
- ENGLISH 1130 (must attain “C” or better) ...............3 cr
- ENGLISH 1230 (must attain “C” or better) ...............3 cr
- SPEECH 2010 (strongly recommended) .....................3 cr (must attain “C” or better)
  or
- SPEECH 1010 (accepted) ...........................................2 cr (must attain “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.

**Mathematics:**
Students must complete mathematics courses as required by various programs.

**Physical Education:**
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 course from one of the three areas listed above.

**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 course in one of two disciplines selected for this area.

**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 a 9 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..................49-55 credits
- Elementary Education Major ........25 credits
- Early Childhood Minor ...............24 credits
- Professional Education ............31 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)**

**(49-55 credits)**

**Communication (8-9 credits):**
- ENGLISH 1130 Freshman Composition I 3 cr
- ENGLISH 1230 Freshman Composition II 3 cr
- SPEECH 2010 Speech Communication for Teachers (recommended)
  or
- SPEECH 1010 Public Speaking (acceptable) 2 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.

**Physical Education (2 credits):**
- PHYSED 1000 Fitness Assessment and Management 1 cr
- PHYSED #### Physical Activity (see class schedule) 1 cr
**Humanities, Fine Arts, and Historical Perspective (12 credits):**

Fine arts course (recommend)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 1230</td>
<td>Art and Children’s Literature for Teachers</td>
<td>3 cr</td>
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</table>

or

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 1240</td>
<td>Art and Social Studies for Teachers</td>
<td>3 cr</td>
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Humanities literature course (required)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HISTORY 1020</td>
<td>World Civilization II (required)</td>
<td>3 cr</td>
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</table>

In-depth humanities, fine arts or historical perspective course 3 cr

**Social Sciences (9 credits):**

Government (required)

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>POLISCI 1230</td>
<td>Introduction to American Government</td>
<td>3 cr</td>
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</table>

Environmental Conservation (required)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GEOGRPHY 3330</td>
<td>Environmental Conservation</td>
<td>3 cr</td>
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In-depth social science course in political science or geography

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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYCHLGY 1130</td>
<td>General Psychology</td>
<td>3 cr</td>
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or

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSYCHLGY 3130</td>
<td>Child Psychology</td>
<td>3 cr</td>
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or

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TEACHING 1230</td>
<td>Human Growth and Development</td>
<td>3 cr</td>
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**Natural Sciences (9 credits):**

Biological science lab course (required) 4-5 cr

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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TEACHING 3040</td>
<td>Reading, Literature, and Literacy I</td>
<td>4 cr</td>
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or

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TEACHING 4090</td>
<td>Integrated Methods: Language Arts and Social Studies</td>
<td>4 cr</td>
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or

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4140</td>
<td>Teaching Mathematics/Science in Early Childhood/Elementary Settings</td>
<td>4 cr</td>
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</table>

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):**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HISTORY 1020</td>
<td>World Civilization II (double counts as historical perspective and international education)</td>
<td>3 cr</td>
</tr>
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</table>

Ethnic/Gender Equity in Education (counts for both ethnic and gender studies plus professional education)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TEACHING 3630</td>
<td>Ethnic/Gender Equity in Education</td>
<td>3 cr</td>
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</table>

**Elementary Education Major–Birth-Age 11 (25 credits):**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHYSED 2040</td>
<td>Health, Nutrition, and Physical Education</td>
<td>4 cr</td>
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Reading, Literature, and Literacy I

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 3040</td>
<td>Reading, Literature, and Literacy I</td>
<td>4 cr</td>
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or

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TEACHING 4040</td>
<td>Reading, Literature, and Literacy II</td>
<td>4 cr</td>
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Integrated Methods: Language Arts and Social Studies

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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TEACHING 4090</td>
<td>Integrated Methods: Language Arts and Social Studies</td>
<td>4 cr</td>
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or

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4140</td>
<td>Teaching Mathematics/Science in Early Childhood/Elementary Settings</td>
<td>4 cr</td>
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Elementary Music Methods

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 3160</td>
<td>Elementary Music Methods</td>
<td>3 cr</td>
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Senior Seminar

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4250</td>
<td>Senior Seminar</td>
<td>2 cr</td>
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G.P.A. 3.00 or better and grade of “C” or better

**Early Childhood Minor–Birth-Age 11 (25 credits):**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 2210</td>
<td>Foundations of Early Childhood Education</td>
<td>3 cr</td>
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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 3130</td>
<td>K-4 Methods for Cognitive Development</td>
<td>3 cr</td>
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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 3240</td>
<td>Pre-K Methods for Cognitive Development</td>
<td>3 cr</td>
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In-depth early childhood course 3 cr

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<tbody>
<tr>
<td>TEACHING 3640</td>
<td>Creative Development in Early Childhood</td>
<td>3 cr</td>
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Guidance, Assessment and Instruction in Early Childhood

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<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 3730</td>
<td>Guidance, Assessment and Instruction in Early Childhood</td>
<td>3 cr</td>
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Working with Families of Children with Disabilities

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<th>Course</th>
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<tbody>
<tr>
<td>TEACHING 4420</td>
<td>Oral Language and Emergent Literacy</td>
<td>3 cr</td>
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<tbody>
<tr>
<td>TEACHING 4730</td>
<td>Working with Families of Children with Disabilities</td>
<td>2 cr</td>
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Student Teaching (Early Childhood)

<table>
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<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4240</td>
<td>Student Teaching (Early Childhood)</td>
<td>2 cr</td>
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G.P.A. of 3.00 or better

**Professional Education–Birth-Age 11 (31 credits):**

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<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 1230</td>
<td>Introduction to Education</td>
<td>2 cr</td>
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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 2010</td>
<td>Computer Applications in Education (or test out)</td>
<td>1 cr</td>
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Human Growth and Development

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 2130</td>
<td>Human Growth and Development</td>
<td>3 cr</td>
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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>PSYCHLGY 3130</td>
<td>Child Psychology</td>
<td>3 cr</td>
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Introduction to Inclusion in Education

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<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 3320</td>
<td>Introduction to Inclusion</td>
<td>3 cr</td>
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Ethnic and Gender Equity in Education

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<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 3630</td>
<td>Ethnic and Gender Equity in Education</td>
<td>3 cr</td>
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Student Teaching (kindergarten/primary)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4260/4360</td>
<td>Student Teaching (kindergarten/primary)</td>
<td>12 cr</td>
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Internship

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<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4760</td>
<td>Internship</td>
<td>12 cr</td>
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Licensure Portfolio

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4990</td>
<td>Licensure Portfolio</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

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.

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4030</td>
<td>Management for Children with Disabilities (CWD)</td>
<td>3 cr</td>
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or

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<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4120</td>
<td>Pre-Student Teaching in CWD Environment or approved substitution</td>
<td>2 cr</td>
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Assessing Children with Disabilities (CWD)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TEACHING 4150</td>
<td>Assessing Children with Disabilities (CWD)</td>
<td>3 cr</td>
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</table>

Measurement for Counseling

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>COUNSLED 4600</td>
<td>Measurement for Counseling</td>
<td>3 cr</td>
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or

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4200</td>
<td>Transitions for Children with Disabilities (CWD)</td>
<td>3 cr</td>
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Oral Language and Emergent Literacy

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TEACHING 4420</td>
<td>Oral Language and Emergent Literacy</td>
<td>3 cr</td>
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Learning and Language Disorders

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4630</td>
<td>Learning and Language Disorders</td>
<td>3 cr</td>
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</table>

Working with Families of Children with Disabilities (CWD)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 4730</td>
<td>Working with Families of Children with Disabilities (CWD)</td>
<td>2 cr</td>
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Strategies for Effective Inclusion

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TEACHING 4830</td>
<td>Strategies for Effective Inclusion</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
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 physical education.

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 ..............................................51 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
SPEECH 1010 Public Speaking (acceptable) 2 cr
or
SPEECH 2010 Speech Communication for Teachers 3 cr
(recommended)
“C’s” 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 (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

Physical Education (2 credits):
PHYSED 1000 Fitness Assessment and Management 1 cr
PHYSED 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 3 cr

Social Sciences (9 credits):
POLISCI 1230 Introduction to American Government (required) 3 cr
GEOGRPHY 3330 Environmental Conservation (required) 3 cr
In-depth social sciences course 3 cr

Natural Sciences (9 credits):
Biological science lab course 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)

Professional Education—Ages 10-14 (51 credits)
Grade of “C” or better in all courses listed below:
PHYSED 2030 Health Education 2 cr
TEACHING 1010 Middle-Level Mentoring 2 cr
or
TEACHING 1230 Introduction to Education 2 cr
TEACHING 2010 Computer Applications in Education 1 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
or
TEACHING 4760 Internship 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 ..................................................43-49 credits
Major/minor ..........................................................36-60 credits
Professional education .................................46-55 credits
Range of total credits for completion .... 125-162 credits
General Education–Ages 10-21
(43-49 credits)

**Communication (8-9 credits):**
- ENGLISH 1130 Freshman Composition I 3 cr
- ENGLISH 1230 Freshman Composition II 3 cr
- SPEECH 1010 Public Speaking (acceptable) 2 cr
- or SPEECH 2010 Speech Communication for Teachers 3 cr (recommended)

“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

**Physical Education (2 credits):**
- PHYSED 1000 Fitness Assessment and Management 1 cr
- PHYSED xxxx Physical Activity 1 cr (see class schedule)

**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 3 cr

**Social Sciences (9 credits):**
- POLISCI 1230 Introduction to American Government (required) 3 cr
- Social sciences course in second discipline 3 cr
  (Note: GEOGRPHY 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
  or
  - PSYCHLGY 1130 General Psychology 3 cr
  - PSYCHLGY 3230 Adolescent Psychology 3 cr

**Natural Sciences (9 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 (double counts as historical perspective and international education) 3 cr
- TEACHING 3630 Ethnic/Gender Equity in Education (counts for both ethnic and gender studies plus professional education) 3 cr

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
(46-55 credits)**

**Required Courses:**
- TEACHING 1230 Introduction to Education 2 cr
- TEACHING 2010 Computer Applications in Education 1 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
  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 Technology 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.................................... 38-48 credits

General Education–Birth-Age 21
(43-49 credits)

**Communication (9-9 credits):**
- ENGLISH 1130 Freshman Composition I 3 cr
- ENGLISH 1230 Freshman Composition II 3 cr
- SPEECH 1010 Public Speaking (acceptable) 2 cr
- or
- SPEECH 2010 Speech Communication for Teachers 3 cr (recommended)

“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

Physical Education (2 credits):
PHYSED 1000 Fitness Assessment and Management 1 cr
PHYSED 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

Social Sciences (9 credits):
POLISCI 1230 Introduction to American Government 3 cr
Social sciences course in second discipline 3 cr
(Note: GEOGRPHY 3330 Environmental Conservation is required for agricultural education majors.)
In-depth social sciences course 3 cr

Natural Sciences (9 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 (38-48 credits)
Required Courses (30+ credits):
TEACHING 1230 Introduction to Education 2 cr
TEACHING 2010 Computer Applications in Education 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
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 physical education and health.)

Option A (8 credits):
TEACHING 4020 Educational Media Technology 2 cr
TEACHING 4210 Pre-Student Teaching 2 cr
TEACHING 3110 Key Concepts in Middle Level Education 2 cr
TEACHING 3120 Characteristics of Transcendents 2 cr

Option B (12 credits):
TEACHING 3110 Key Concepts in Middle Level Education 2 cr
TEACHING 3120 Characteristics of Transcendents 2 cr
TEACHING 4020 Educational Media Technology 2 cr
TEACHING 4210 Pre-Student Teaching 2 cr
TEACHING 4220 Advising, Interaction and Communication 2 cr
TEACHING 4620 Teaching Transcendents 2 cr

Option C (18 credits):
TEACHING 4050 Middle-Level Professional Preparation 18 cr

Counseling Psychology
www.uwplatt.edu/counselored/index.html
Program Contact: Karen Stinson, Ed.D.
Office: 139 Doudna Hall
Phone: 608.342.1131 or 608.342.1252
E-mail: stinsonk@uwplatt.edu
Associate Professor:
Steven Benish
Assistant Professors:
Jovan Hernandez
Yu-Ting Su

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.
About the Physical Education and Health Program
The School of Education offers a major in physical education with a state of Wisconsin 860 certification in adapted physical education, a minor in health education, and an emphasis in health promotion.

Mission Statement
The mission of the health and physical education program is threefold in nature: 1) to produce pre-service teachers ready to implement “Best Practices” in Health, Physical Education, and Adapted Physical Education; 2) to produce health promotion specialists ready for a wide variety of programs utilizing wellness components, such as YMCAs, youth clubs, and corporate/club fitness centers; and 3) to provide all university students the opportunity to develop positive concepts of wellness and skills to participate in lifetime wellness activities.

Goals and Objectives
Graduates of the physical education program will demonstrate knowledge of and/or skills in:

1. biological sciences including the structure, function, principles, and effects of movement and activity on the human body, as well as demonstrated competence in anatomy, physiology, biomechanics, kinesiology, and exercise physiology
2. health-related fitness, including practical application in an authentic laboratory setting of physical education
3. the essential skills and the capacity to teach a wide variety of activities, including fundamental motor skills, sports (lifetime, team, individual), movement (creative, rhythms, dance), aquatics, and outdoor activities (recreational, experiential)
4. teaching methods with experiences in organizing, planning, implementing, administering, and evaluating a total program of physical education, including curriculum specific to physical education, intramural, recreational, and interscholastic activities
5. budget development, and the selection, purchase, care, and maintenance of facilities, equipment, and supplies
6. safety procedures, first aid, and CPR
7. age-appropriate physical training and injury prevention methods
8. liability and legal considerations (Title IX, sports law)
9. pupil conditions which may affect performance in physical education classes, including diagnostic methods, teaching techniques, and evaluation and prescriptive programming of pupils whose needs can be met by minor program modification or through specially designed individual programs
10. the application of behavioral and social science concepts related to physical education, including foundations, multicultural awareness, classroom management, conflict resolution, peer cooperation and mediation, motivational techniques, integration techniques, and gender equity

General Requirements
Bachelor of Science Degree
Total for graduation...............................136 credits
General education..................................41 credits
Major PE studies ....................................55 credits
Professional education ...........................40 credits

Physical Education 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 education fitness assessment, four tests each, on file in order to graduate.

Required Courses:

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<tr>
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<th>Title</th>
<th>Credits</th>
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<tr>
<td>PHYSED 2020</td>
<td>First Aid</td>
<td>2 cr</td>
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<tr>
<td>PHYSED 2030</td>
<td>Health Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 2080</td>
<td>Movement Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 2330</td>
<td>Adventure Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 2410</td>
<td>Team Sports</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 2430</td>
<td>Adventure Education Practicum</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED 2510</td>
<td>Individual Sports</td>
<td>2 cr</td>
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<tr>
<td>PHYSED 3020</td>
<td>Physiology of Exercise</td>
<td>4 cr</td>
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<tr>
<td>PHYSED 3040</td>
<td>Adapted Aquatics</td>
<td>2 cr</td>
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<tr>
<td>PHYSED 3220</td>
<td>Teaching Sexuality and Drugs</td>
<td>2 cr</td>
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<tr>
<td>PHYSED 3330</td>
<td>Lifetime Activities</td>
<td>2 cr</td>
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<tr>
<td>PHYSED 3400</td>
<td>Outdoor Activities/</td>
<td>2 cr</td>
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<tr>
<td></td>
<td>Water Safety Instruction</td>
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<tr>
<td>PHYSED 3510</td>
<td>Assessment and Screening in</td>
<td>2 cr</td>
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<tr>
<td></td>
<td>Physical Education</td>
<td></td>
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<tr>
<td>PHYSED 3720</td>
<td>Kinesiology</td>
<td>3 cr</td>
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<tr>
<td>PHYSED 3830</td>
<td>Perceptual Motor Learning</td>
<td>2 cr</td>
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<tr>
<td>PHYSED 3850</td>
<td>Nutrition</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 3920</td>
<td>Emotional Health</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 4320</td>
<td>Consumer Health</td>
<td>2 cr</td>
</tr>
</tbody>
</table>
PHYSED 4330 Organization Administration and Curriculum of Physical Education and Health Education 4 cr
PHYSED 4520 Injury Prevention and Treatment 2 cr
PHYSED 4940 Seminar in Community/Environmental Health Education 3 cr

Science Course (4 credits):
BIOL 2340 Essentials of Anatomy and Physiology (grade of “C” or better) 4 cr
or
BIOL 2140 Anatomy and Physiology I (grade of “C” or better) 4 cr

Professional Education Courses (25 credits):
PHYSED 2320 Introduction to Physical Education 2 cr
PHYSED 3010 Technology in Health and Physical Education 2 cr
OR
TEACH 4020 Educational Media Technology 2 cr
PHYSED 3430 Teaching Exceptional Children in Health and Physical Education 3 cr
PHYSED 3440 Elementary/Middle School Physical Education Methods 2 cr
PHYSED 3500 Methods in Teaching Health Education 3 cr
PHYSED 4230 Methods in Middle/Secondary Education 3 cr
PHYSED 4530 Practicum in Adapted Physical Education 3 cr
TEACH 4010 Computer Applications in Education 1 cr
TEACH 4120 Computer Applications in Education 1 cr
OR
PSYCLGY 3130 Child Psychology 3 cr
PSYCLGY 3230 Adolescent Psychology 3 cr
TEACH 3630 Ethnic and Gender Equity in Education 3 cr
TEACH 4660 B-21 Student Teaching 12 cr
TEACH 4990 Licensure Portfolio 3 cr

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):
PHYSED 3430 Teaching Exceptional Children in Health and Physical Education 3 cr
PHYSED 3510 Assessment and Screening in Physical Education 2 cr
PHYSED 3830 Perceptual Motor Learning and Motor Development 2 cr
PHYSED 4530 Practicum in Adapted Physical Education 3 cr

Health Education Minor (29 credits)
Required Courses:
PHYSED 2020 First Aid/Accident Prevention/Community CPR 2 cr
PHYSED 2030 Health Education 2 cr
PHYSED 3220 Teaching Human Sexuality, Alcohol, and Other Drugs 2 cr
PHYSED 3430 Teaching Exceptional Children Health and Physical Education 3 cr
PHYSED 3500 Methods of Teaching Health Education 3 cr
PHYSED 3850 Nutrition 2 cr
PHYSED 3920 Emotional Health 2 cr
PHYSED 4320 Consumer Health 2 cr
PHYSED 4330 Organization, Administration, and Curriculum of Physical Education and Health Education 4 cr

Science Course (4 credits):
BIOL 2340 Essentials of Human Anatomy and Physiology 4 cr
or
BIOL 2140 Anatomy and Physiology I 4 cr

Physical Education with Health Promotion Emphasis Major
Total for graduation..............................129 credits
General education................................44 credits
Major PE studies...................................73 credits
Other required courses.........................12 credits

Grades of “C” or better in all courses required for admission to health promotion. Students must have a 2.75 overall major G.P.A. to qualify for a level III internship. Students must have an initial and an exit physical education fitness assessment, four tests each, on file in order to graduate.

Required Courses (53-56 credits):
PHYSED 1000 Fitness Assessment Management 1 cr
PHYSED 2010 Aerobics/Hydroaerobics 1 cr
PHYSED 2020 First Aid 2 cr
PHYSED 2030 Health Education 3 cr
PHYSED 2320 Introduction to Physical Education 2 cr
PHYSED 2510 Individual Sports 2 cr
PHYSED 3000 Level or above Elective 2 or 3 cr
PHYSED 3000 Level or above Elective 2 or 3 cr
PHYSED 3120 Stress Management at the Worksite 2 cr
PHYSED 3240 Exercise Among Maturing Adults 2 cr
PHYSED 3330 Lifetime Activities 2 cr
PHYSED 3360 Fitness Evaluation 2 cr
PHYSED 3380 Fitness Programming and Prescription 2 cr
PHYSED 3400 Outdoor Activities/ Water Safety Instruction 2 cr
PHYSED 3420 Health Promotion at the Worksite 2 cr
PHYSED 3500 Methods of Teaching Health Education 3 cr
PHYSED 3720 Kinesiology 3 cr
PHYSED 3850 Nutrition 2 cr
PHYSED 4320 Consumer Health 2 cr
PHYSED 4330 Organization, Administration, and Curriculum of Physical Education and Health Promotion 4 cr
PHYSED 4410 Seminar in Health Promotion 3 cr
PHYSED 4520 Injury Prevention/Treatment 2 cr
PHYSED 4620 Advanced Athletic Training 2 cr

Recommended Coursework Outside of Physical Education (12 credits):
BUSADMIN 2330 Leadership and Management 3 cr
BUSADMIN 2630 Introduction to Marketing 3 cr
BUSADMIN 3340 Management, Gender, and Race 3 cr
MEDIA 3010 Business Communication 3 cr
or TEACHING 2010 Computer Applications in Education 1 cr
and PHYSED 3010 Technology in Health and Physical Education 2 cr

A minor must be approved by the advisor and the physical education program coordinator.

Recommended: Business Administration, Psychology, or Health Education

Required Internships (14-18 credits):
PHYSED 4850 Fitness Intern (I) 3 cr
PHYSED 4860 Fitness Intern (II) 3 cr
PHYSED 4870 Fitness Intern (off campus) 8-12 cr

Science Course (4 credits):
BIOLOGY 2340 Essentials of Human Anatomy and Physiology (grade of “C” or better) 4 cr
or
BIOLOGY 2140 Anatomy and Physiology I (grade of “C” or better) 4 cr

In order to be assigned to an off-campus internship, the student must meet the following criteria:
1. Senior standing
2. Overall major G.P.A. of 2.75 or better
3. Attainment of grade “C” or better in all health and physical education courses
4. Attainment of grade “C” or better in BIOLOGY 2340 or BIOLOGY 2140
5. Successful completion of Level I and II internships
This page provides information for reading course descriptions.

Course Codes
Accounting ......................................................... ACCTING
Agricultural Industries ...................................... AGINDUS
Agricultural Sciences ........................................ AGSCI
Art ........................................................................ ART
Biology ............................................................... BIOLOGY
Business Administration ...................................... BUSADMIN
Chemistry ......................................................... CHEMISTRY
Chinese ............................................................. CHINESE
Civil Engineering .................................................. CIVILENG
Computer Science .............................................. COMPUTER
Counseling Psychology ........................................ COUNPSY
Criminal Justice .................................................. CRIMLJUS
Economics ......................................................... ECONOMIC
Electrical Engineering ......................................... ELECTENG
Energy ............................................................... ENERGY
Engineering Physics ............................................ ENGRPHYS
English .............................................................. ENGLISH
Entrepreneurship .................................................. ENTRP
Ethnic Studies ..................................................... ETHNSTDY
Forensic Investigation .......................................... FORENSIC
French ............................................................... FRENCH
General Engineering ......................................... GENENG
Geography ......................................................... GEOGRAPHY
Geology ............................................................ GEOLOGY
German ............................................................. GERMAN
History .............................................................. HISTORY
Industrial Engineering ......................................... INDSTENG
Industrial Studies ................................................. INDUSTDY
Mathematics ....................................................... MATH
Mechanical Engineering ....................................... MECHNCHL
Applied Music ..................................................... MUAP
Media Studies ....................................................... MEDIA
Microsystems and Nanotechnology ........................ MSNT
Music .............................................................. MUSIC
Philosophy ........................................................ PHILSPHY
Physical Science ................................................. PHSC
Physical Education and Health .............................. PHYSED
Physics .............................................................. PHYSICS
Political Science .................................................. POLISCI
Psychology ........................................................ PSYCHLGY
Reclamation ....................................................... RECLAM
Renewable Energy .............................................. ENERGY
Social and Environmental Justice ........................ SEJ
Sociology .......................................................... SOCIOLOGY
Software Engineering ........................................... SOFTWARE
Spanish .............................................................. SPANISH
Speech ............................................................... SPEECH
Teaching ............................................................ TEACHING
Theatre ............................................................... THEATRE
UW-Platteville Study ............................................. UWPSTUDY
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. (Fall, Spring)
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, is offered both fall and spring, and carries social science general education credit.

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

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 Requirements
Lists which general education requirements this course meets
- HUM: Carries general education humanities credit
- FA: Carries general education fine arts credit
- HP: Carries general education historical perspective credit
- SS: Carries general education social sciences credit
- NS: Carries general education natural sciences credit
- IE: Carries general education international education credit
- EGS: Carries general education ethnic and gender studies credit
- E: Carries general education ethnic studies credit
- G: Carries general education gender studies credit
ACCOUNTING COURSES

ACCTING 2010  3 credits
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 credits
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 credits
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 credits
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 credits
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 credits
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: COMPUTER 1830 and grade of “C-“ or better in ACCTING 2020

ACCTING 3040  3 credits
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 credits
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 credits
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: COMPUTER 1830 and grade of “C-“ or better in ACCTING 2020

ACCTING 3270  3 credits
Financial Statement Analysis & 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. (Offered once in 2 year cycle)
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. (fall and spring)
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 3020 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: major in accounting and junior standing

AGRICULTURAL INDUSTRY COURSES

AGINDUS 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

AGINDUS 1750  3 credits
Equipment, Structure and Power Systems
Trends and opportunities in mechanized agriculture; problems to illustrate the work of four major divisions of agricultural engineering; power and machinery, electrical power and processing, structures and environment, and soil and water conservation engineering practices.
Components: Laboratory, Class

AGINDUS 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
AGINDUS 2430  3 credits
Agricultural Marketing
Principles and organization of agricultural marketing; market functions, structure, and organizations; commodity and branded marketing.

Components: Class
Prereqs/Coreqs: P: AGINDUS 1500

AGINDUS 2450  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 have critiqued resumes, cover letters, and develop interviewing skills.

Components: Class
Prereqs/Coreqs: P: AGINDUS 1500

AGINDUS 2500  3 credits
Producer and Consumer Cooperatives
Development, principles, legal basis, organization, finance, taxation, and management of agricultural, consumer, and industrial cooperatives.

Components: Class
Prereqs/Coreqs: P: AGINDUS 1500

AGINDUS 2920  2 credits
Introduction to Agricultural and Extension Education
An introduction to the origin, organizational structure, and scope of the Agricultural Extension Service and to education in agriculture; trends in these programs and the training requirements and professional opportunities associated with these trends.

Components: Class

AGINDUS 3410  3 credits
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: AGINDUS 1500

AGINDUS 3420  3 credits
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: AGINDUS 1500 and ACCTING 2010

AGINDUS 3430  3 credits
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: AGINDUS 1500 and MATH 1830

AGINDUS 3450  1 credit
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: AGIN 2450 and junior standing

AGINDUS 3460  3 credits
Farm Management and Record Systems
The study of and application of farm business management systems including planning, budgeting, implementing and control; farm business arrangements and generational transfer; managing capital and human resources; tax management; record systems; farm business analysis and benchmarking; government programs; and environmental stewardship.

Components: Class
Prereqs/Coreqs: P: AGINDUS 1500

AGINDUS 3500  3 credits
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: AGINDUS 2430

AGINDUS 3520  3 credits
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: AGINDUS 1500
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Prerequisites/Co-requisites</th>
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<tbody>
<tr>
<td>AGINDUS 3530</td>
<td>3 credits</td>
<td>Agricultural Commodity Marketing</td>
<td>P: AGINDUS 2430 or BUSADMIN 3620</td>
</tr>
<tr>
<td>AGINDUS 3830</td>
<td>3 credits</td>
<td>Engines and Tractor Systems</td>
<td>P: AGINDUS 1750 or consent of instructor</td>
</tr>
<tr>
<td>AGINDUS 3850</td>
<td>3 credits</td>
<td>Electrical Applications in Agriculture</td>
<td>P: AGINDUS 1750 or consent of instructor</td>
</tr>
<tr>
<td>AGINDUS 3900</td>
<td>3 credits</td>
<td>Planning Cooperative Education in Agriculture</td>
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</tr>
<tr>
<td>AGINDUS 3950</td>
<td>3 credits</td>
<td>Soil and Water Conservation Engineering</td>
<td>P: AGINDUS 1750 or AGSCI 2230 or RECLAM 1010 or consent of instructor</td>
</tr>
<tr>
<td>AGINDUS 4120</td>
<td>3 credits</td>
<td>The Animal Rights and Animal Welfare Social Movements</td>
<td></td>
</tr>
<tr>
<td>AGINDUS 4330</td>
<td>3 credits</td>
<td>Agribusiness Marketing Management</td>
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<tr>
<td>AGINDUS 4400</td>
<td>3 credits</td>
<td>Livestock and Meat Marketing</td>
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<tr>
<td>AGINDUS 4460</td>
<td>3 credits</td>
<td>Agricultural Policy Seminar</td>
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<tr>
<td>AGINDUS 4500</td>
<td>3 credits</td>
<td>Agribusiness Management</td>
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<tr>
<td>AGINDUS 4580</td>
<td>3 - 6 credits</td>
<td>Agricultural Business Internship</td>
<td>P: 30 credits and 2.00 GPA</td>
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<tr>
<td>AGINDUS 4590</td>
<td>1 - 3 credits</td>
<td>Individual Study in the Agricultural Industries</td>
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</tbody>
</table>

**Course Descriptions:**

**AGINDUS 3530 Agricultural Commodity Marketing**
Current marketing trends and problems, futures marketing and forward contracting, bargaining, international trade, current marketing issues of selected agricultural commodities.

**AGINDUS 3830 Engines and Tractor Systems**
Operating principles, maintenance, adjustment, and testing of gas and diesel engines used in agriculture. Analysis of tractor and power transmission systems.

**AGINDUS 3850 Electrical Applications in Agriculture**
Elementary electricity; planning of farmstead electrical systems; selection, operation, and maintenance of electrical equipment; application of electricity to heat, light, and power; emergency power generation.

**AGINDUS 3900 Planning Cooperative Education in Agriculture**
Determination of general program objectives and planning for the administration of all facets of the program, including curriculum development, instructional facilities and materials, Supervised Agricultural Experience Programs, and the F.F.A. Program of Activities.

**AGINDUS 3950 Soil and Water Conservation Engineering**
Land description and characteristics of watersheds. Design, layout, and construction of waterways, diversions, terraces, and earthen structures.

**AGINDUS 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.

**AGINDUS 4330 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.

**AGINDUS 4400 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.

**AGINDUS 4460 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.

**AGINDUS 4500 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.

**AGINDUS 4580 Agricultural Business Internship**
Supervised program of study in cooperation with agricultural industries and public agencies for credit in all majors.

**AGINDUS 4590 Individual Study in the Agricultural Industries**
Advanced study on a particular topic or problem in the area of specialization within the agricultural industries.
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<tbody>
<tr>
<td>AGINDUS 4600</td>
<td>3 credits</td>
<td>Faculty Led Short-Term International Experience in Agriculture</td>
</tr>
<tr>
<td>AGINDUS 4620</td>
<td>2 credits</td>
<td>Agricultural Commodity Price Forecasting</td>
</tr>
<tr>
<td>AGINDUS 4690</td>
<td>3 credits</td>
<td>Hydraulics and Machinery Engineering</td>
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<tr>
<td>AGINDUS 4790</td>
<td>3 credits</td>
<td>Materials Handling and Energy Seminar</td>
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<tr>
<td>AGINDUS 4890</td>
<td>3 credits</td>
<td>Structures and Environmental Control</td>
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<td>AGINDUS 4930</td>
<td>3 credits</td>
<td>Teaching Cooperative Education in Agriculture</td>
</tr>
<tr>
<td>AGINDUS 4990</td>
<td>1 - 3 credits</td>
<td>Independent Study in Equipment, Structure and Power Systems</td>
</tr>
<tr>
<td>AGSCI 1000</td>
<td>3 credits</td>
<td>Introduction to Animal Science</td>
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<tr>
<td>AGSCI 1200</td>
<td>2 credits</td>
<td>Animal Science Management</td>
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<tr>
<td>AGSCI 1240</td>
<td>3 credits</td>
<td>The Plant-Soil Environment</td>
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<tr>
<td>AGSCI 1260</td>
<td>3 credits</td>
<td>Crop Science</td>
</tr>
<tr>
<td>AGSCI 2000</td>
<td>3 credits</td>
<td>Meat and Animal Evaluation</td>
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**AGRICULTURAL SCIENCE COURSES**

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<tr>
<td>AGSCI 1000</td>
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**Component Details**

- **AGINDUS 4600**
  - Field Studies
  - Cross Offering: AGSCI 4600
  - GE: International Education

- **AGINDUS 4620**
  - Analyze basic commodity price fluctuations. The three major approaches include technical, fundamental, and behavioral analyses. Primary emphasis involves charting theory.

- **AGINDUS 4690**
  - Hydraulic principles, components, and systems. Management, operation, adjustment, and maintenance of agricultural machinery.

- **AGINDUS 4790**
  - Principles and applications of handling agricultural products. Sales, service, employment opportunities, and special problems relating to agricultural, environmental, and energy systems.

- **AGINDUS 4890**
  - 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.

- **AGINDUS 4930**
  - Application of the teaching-learning process to education in agriculture, including methods of instruction, the computer and other instructional media, preparation of teaching plans, and experiencing teaching through role playing.

- **AGINDUS 4990**
  - Advanced study in an area of specialization.

- **AGSCI 1000**
  - 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.

- **AGSCI 1200**
  - The performance and management skills necessary to manage productive livestock enterprises. Students will learn techniques necessary in production agriculture.

- **AGSCI 1240**
  - Principles of plant science as they relate to Crop and Soil Science, and Ornamental Horticulture. Topics include plant identification, classification and structure; the influence of genotypic, environmental and plant-soil interrelationships on vital plant developmental processes; and the impact of cultural practices, pests and diseases on the growth and development of important agronomic and horticultural species.

- **AGSCI 1260**
  - Basic principles of crop production which include classification and identification, morphology, anatomy, physiology, climatology, plant-soil interrelationships, cultural practices, harvesting, cropping systems, and management.

- **AGSCI 2000**
  - 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.
AGSCI 2010  
**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: AGSCI 1000 and BIOLOGY 1150 or BIOLOGY 1650

AGSCI 2020  
**Introduction to Dairy Science**
Selection, feeding, and care of dairy cattle.

**Components:** Class

AGSCI 2030  
**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

AGSCI 2050  
**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:** Class

AGSCI 2230  
**Soils**
Origin, nature, and environment for plants; productivity as influenced by soil, cropping system, and management.

**Components:** Laboratory, Class

AGSCI 2280  
**Woody Landscape Plants**
The identification, propagation, and use of woody ornamental plants important to Midwestern landscapes including deciduous and evergreen trees, shrubs, and ground covers.

**Components:** Class  
**Prereqs/Coreqs:** P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor

AGSCI 2600  
**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

AGSCI 3000  
**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: AGSCI 1000 and either CHEMISTRY 1050 or CHEMISTRY 1140

AGSCI 3010  
**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: CHEMISTRY 1050 or CHEMISTRY 1140

AGSCI 3030  
**Genetics of Livestock Improvement**
Qualitative and quantitative genetics and their application to the breeding and improvement of domestic animals.

**Components:** Class  
**Prereqs/Coreqs:** P: AGSCI 1000 and BIOLOGY 1150 or BIOLOGY 1350 or BIOLOGY 1650 and Math 1530 or higher

AGSCI 3040  
**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: AGSCI 1000, CHEMISTRY 1050 or CHEMISTRY 1140

AGSCI 3070  
**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

AGSCI 3110  
**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. (fall, spring)

**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: AGSCI 2010 or consent of instructor
AGSCI 3120  
**Topics in Animal Health**
Discuss animal diseases specific for this area along with diseases controlled by government regulations. Discuss biosafety 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: AGSCI 2010 or consent of instructor

AGSCI 3200  
**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 BIOLOGY 1350 or consent of instructor

AGSCI 3220  
**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. This is an intensive writing course.  
**Components:** Laboratory, Class  
**GE:** Natural Science  
**Prereqs/Coreqs:** P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor

AGSCI 3230  
**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 BIOLOGY 1350 or consent of instructor

AGSCI 3240  
**Herbaceous Plants**
Identification, use, management and propagation of herbaceous annual, biennial and perennial plant species important in Midwest landscapes will be discussed.  
**Components:** Class  
**Prereqs/Coreqs:** P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor

AGSCI 3260  
**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

AGSCI 3270  
**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: AGSCI 2280 or consent of instructor

AGSCI 3280  
**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. (Fall)  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor

AGSCI 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 BIOLOGY 1350 or consent of instructor

AGSCI 3310  
**Soils, Crops and Ornamental Horticulture Seminar**
Review of current literature.  
**Components:** Seminar  
**Prereqs/Coreqs:** P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor

AGSCI 3320  
**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. (Fall)  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: AGSCI 2280 or consent of instructor
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<tr>
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<tbody>
<tr>
<td>AGSCI 3330</td>
<td>3</td>
<td>Soil Morphology and Classification</td>
<td>Morphology and classification of soils, interpreting and using soil survey information, describing and mapping soil properties.</td>
<td>Laboratory, Class</td>
<td>P: AGSCI 2230</td>
</tr>
<tr>
<td>AGSCI 3340</td>
<td>3</td>
<td>Nutrient Management in Agriculture</td>
<td>Agriculture as it affects and is affected by the quality of our environment.</td>
<td>Class</td>
<td>P: AGSCI 1240 or AGSCI 2230 or consent of instructor</td>
</tr>
<tr>
<td>AGSCI 3350</td>
<td>3</td>
<td>Soil Fertility and Fertilizers</td>
<td>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.</td>
<td>Laboratory, Class</td>
<td>P: AGSCI 1240 or BIOLOGY 1350 or CHEMSTRY 1050 or CHEMSTRY 1140 or CHEMSTRY 1450</td>
</tr>
<tr>
<td>AGSCI 3360</td>
<td>3</td>
<td>Greenhouse Operation and Management</td>
<td>The basic principles and practices involved in the production and marketing of commercial greenhouse flower crops, foliage plants, and bedding plants.</td>
<td>Laboratory, Class</td>
<td>P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor</td>
</tr>
<tr>
<td>AGSCI 3370</td>
<td>1-3</td>
<td>Undergraduate Research in Ornamental Horticulture</td>
<td>Students conduct research projects with faculty in Ornamental Horticulture or Plant Biotechnology.</td>
<td>Independent Study</td>
<td>P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor</td>
</tr>
<tr>
<td>AGSCI 3380</td>
<td>1-3</td>
<td>Special Problems in Soil Science</td>
<td>Individual study in specialized areas of soils.</td>
<td>Independent Study</td>
<td>P: AGSCI 2230</td>
</tr>
<tr>
<td>AGSCI 3390</td>
<td>1-3</td>
<td>Special Problems in Crop Science</td>
<td>Crop experimentation or research interpretation in breeding, physiology, crop production, or crop chemicals.</td>
<td>Independent Study</td>
<td>P: AGSCI 1240 or consent of instructor</td>
</tr>
<tr>
<td>AGSCI 3400</td>
<td>1-3</td>
<td>Special Topics in Ornamental Horticulture</td>
<td>Discussion of contemporary topics relevant to the field of Ornamental Horticulture.</td>
<td>Independent Study</td>
<td>P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor</td>
</tr>
<tr>
<td>AGSCI 3600</td>
<td>3</td>
<td>Ration Formulation/Evaluation</td>
<td>Basics of ration formulation and evaluation. Formulation using different methods with major emphasis on computer programs. Evaluation using case studies of herds with nutritional problems.</td>
<td>Laboratory, Class</td>
<td>P: AGSCI 3000 or consent of instructor</td>
</tr>
<tr>
<td>AGSCI 4030</td>
<td>4</td>
<td>Beef Management</td>
<td>Management principles of beef production including selection, feeding, marketing, reproduction, and promotion.</td>
<td>Laboratory, Class</td>
<td>P: AGSCI 3000 and AGSCI 3030 and AGSCI 3110 or consent of instructor</td>
</tr>
<tr>
<td>AGSCI 4040</td>
<td>4</td>
<td>Swine Management</td>
<td>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.</td>
<td>Laboratory, Class</td>
<td>P: AGSCI 3000 and AGSCI 3030 and AGSCI 3110 or consent of instructor</td>
</tr>
<tr>
<td>AGSCI 4070</td>
<td>4</td>
<td>Dairy Cattle Management</td>
<td>Principles and problems involved in dairy cattle management. Emphasis will be placed on actual involvement in making managerial decisions.</td>
<td>Laboratory, Class</td>
<td>P: AGSCI 2020 and AGSCI 3000 and AGSCI 3030 and AGSCI 3110 or consent of instructor</td>
</tr>
<tr>
<td>AGSCI 4080</td>
<td>3</td>
<td>Ruminant Nutrition</td>
<td>Anatomy and physiology of the ruminant gastrointestinal tract; the digestion, absorption, metabolism, utilization, and biochemical functions of nutrients as applied to ruminants.</td>
<td>Class</td>
<td>P: AGSCI 3000 or consent of instructor</td>
</tr>
</tbody>
</table>
AGSCI 4090  3 credits
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: AGSCI 3000 or consent of instructor

AGSCI 4120  3 credits
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: AGINDUS 4120
Prereqs/Coreqs: junior standing

AGSCI 4140  3 credits
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: AGSCI 3040 or instructor consent

AGSCI 4150  3 credits
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: AGSCI 3110 or consent of instructor

AGSCI 4170  4 credits
Small Ruminant Animal Management
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. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: AGSCI 3000 and AGSCI 3030 and AGSCI 3110 or consent of instructor

AGSCI 4190  3 credits
Seminar in Animal Science
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

AGSCI 4200  1 - 3 credits
Individual Study in Animal Science
Individual study of the literature and research in specialized areas of the animal sciences.
Components: Independent Study

AGSCI 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 BIOLOGY 1350 or BIOLOGY 3330 or consent of instructor

AGSCI 4250  3 credits
Weed Science
Identification of weeds; chemical, biological and cultural methods of control; influence on production.
Components: Laboratory, Class
Prereqs/Coreqs: P: AGSCI 1240 or consent of instructor

AGSCI 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 BIOLOGY 1350 or consent of instructor
AGSCI 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. (Spring, alternate years)
   Components: Laboratory, Class
Prereqs/Coreqs: P: AGSCI 3270 or consent of instructor

AGSCI 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: AGSCI 1240 or AGSCI 1000 or consent of instructor

AGSCI 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 BIOLOGY 1350 or consent of instructor

AGSCI 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: AGSCI 2230

AGSCI 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: AGSCI 2230

AGSCI 4600  3 credits
Faculty Led Short-Term International Experience in Agriculture
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
   Cross Offering: AGINDUS 4600
   GE: International Education

AGSCI 4960  1 - 3 credits
Special Topics in Animal Science
Discussion of contemporary topics relevant to the field of Animal Science.
   Components: Independent Study

AGSCI 4980  1 - 3 credits
Undergraduate Research in Animal Science
Students conduct research projects with faculty in Animal Science.
   Components: Research

ART COURSES

ART 1010  3 credits
Drawing I: Basic Drawing
Introduction to the basic problems of composition and representation of drawing using a variety of professional media and techniques.
   Components: Class

ART 1230  3 credits
Art and Children’s Literature for Teachers
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  3 credits
Art and Social Studies for Teachers
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  3 credits
Painting I: Beginning Painting
Preparations for painting stressing the tools, techniques and principles of painting.
   Components: Class

ART 1420  3 credits
Basic Design I: 2-D
Introduction to the elements and fundamental concepts of two dimensional visual arts. For first year art majors.
   Components: Class

ART 1520  3 credits
Basic Design II: 3-D
Introduction to the elements of three dimensional visual arts. For first year art majors.
   Components: Class
ART 1630 3 credits  
Lettering and Typographical Design  
The fundamentals of lettering, typography and typographic design as an art form. Emphasis on the origins and history of the alphabet, type, and their relationship to art and communication. Practice in the structure of letters, designing with type, and the word as a means of visual communication.  
Components: Class

ART 1740 3 credits  
Introduction to Digital Media  
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 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. (Fall)  
Components: Class  
GE: Fine Arts, International Education

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 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: Ethnic Studies, 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
   GE: Fine Arts, International Education

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 3220  3 credits
Printmaking I
Printmaking One 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
   Prereqs/Coreqs: P: ART 1010 and ART 2310

ART 3320  3 credits
Printmaking II
Printmaking Two 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

ART 3340  3 credits
Art History III: Modern
The history of modern art from Realism to the present showing the development of the important ideas and styles in art and architecture.
   Components: Class
   GE: Fine Arts

ART 3440  3 credits
Painting III: Figure Painting
Painting III explores the human figure in form, proportion and anatomy in studio. Students study action, volume, scale, design and expressive potential of human form. Formal aspects of painting are studied through intensive observation of live models.
   Components: Class
   Prereqs/Coreqs: P: ART 2410 and ART 3310
ART 3510  3 credits  
**Sculpture II: Intermediate**
Sculpting heads of humans, animals and aliens to experience clays, conditioning clay, camera, calipers and ruler, measurement charts, modeling tools, hollowing out tools, armatures, turntables, sculpture stand, kiln and patina.  
**Components:** Class  
**Prereqs/Coreqs:** P: ART 2510

ART 3530  3 credits  
**Art History V: Far Eastern Art**  
A survey of the art of China, India and Japan.  
**Components:** Class  
**GE:** Fine Arts, International Education

ART 3610  2 credits  
**Crafts II: Jewelry**  
Basic techniques in jewelry design and production.  
**Components:** Class

ART 3740  3 credits  
**Graphic Design V: History and Systems**  
A history of graphic design in the visual arts, the role of the graphic artist and designer, and practical experience in the use of the design systems.  
**Components:** Class

ART 3800  3 credits  
**Ceramics III: Advanced**  
Advanced work in clay construction, stressing individual projects.  
**Components:** Class  
**Prereqs/Coreqs:** P: ART 2520 and ART 2620

ART 3910  3 credits  
**Graphic Design III: Advanced Typography**  
Advanced studies into the art and techniques of typographical design and applications to graphic design. With the further exploration of typographical elements and their use in effective visual communication, students will continue to develop their visual communication skills.  
**Components:** Class  
**Prereqs/Coreqs:** P: ART 2710 and ART 2740 and ART 1740

ART 3940  3 credits  
**Advanced Ceramics**  
Advanced Ceramics, 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 media or techniques of choice. 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 develop a professional working studio; enhance their portfolio for graduate studies, teaching positions, commissions, gallery or juried shows or professional opportunities for artists. This course can be repeated. (every semester)  
**Components:** Laboratory  
**Prereqs/Coreqs:** P: ART 2520 and ART 2620. Priority to Art majors but open to all University students.

ART 3950  3 credits  
**Advanced Sculpture**  
Advanced Sculpture 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 media or techniques of choice. The student is expected to engage in advanced study of sculptural concepts, craftsmanship, creative processes, and effective expression of aesthetic ideas. This course is designed to establish a structure within which sculpture 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 develop a professional working studio; enhance their portfolio for graduate studies, teaching positions, commissions, gallery or juried shows or professional opportunities for artists. This course can be repeated. (every semester)  
**Components:** Laboratory  
**Prereqs/Coreqs:** P: ART 2510 and ART 3510. Priority to Art majors but open to all University students.

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 4230  3 credits  
**Theory of Art**  
A survey of the theory of art with an emphasis on contemporary ideas.  
**Components:** Class  
**GE:** Fine Arts
<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>ART 4310</td>
<td>3</td>
<td>Drawing IV: Intermediate Drawing</td>
<td>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.</td>
<td>Class</td>
<td>P: ART 3310</td>
</tr>
<tr>
<td>ART 4340</td>
<td>3</td>
<td>Drawing V: Perspective Drawing</td>
<td>Detailed studies of ways in which principles of perspective are used to represent objects in space.</td>
<td>Class</td>
<td></td>
</tr>
<tr>
<td>ART 4400</td>
<td>3</td>
<td>Painting IV: Advanced Painting</td>
<td>A continuation of ART 2410 and ART 3440.</td>
<td>Class</td>
<td>P: ART 3440</td>
</tr>
<tr>
<td>ART 4460</td>
<td>3</td>
<td>Painting VI: Watercolor</td>
<td>An introduction to various methods of water color painting.</td>
<td>Class</td>
<td></td>
</tr>
<tr>
<td>ART 4510</td>
<td>3</td>
<td>Sculpture III: Advanced, Materials and Techniques</td>
<td>Advanced work in sculpture with special emphasis on the casting of metal sculpture and foundry methods, techniques and preparations for casting.</td>
<td>Class</td>
<td>P: ART 2510 and ART 3510</td>
</tr>
<tr>
<td>ART 4530</td>
<td>3</td>
<td>Art Education I: Elementary and Middle School Methods</td>
<td>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)</td>
<td>Class</td>
<td>P: ART 2510 and ART 3510</td>
</tr>
<tr>
<td>ART 4630</td>
<td>3</td>
<td>Art Education II: Middle and High School Methods</td>
<td>A continuation of ART 4530 with an emphasis on the teaching and supervision of art in middle and high school. (For students majoring in art education) Should be taken simultaneously with TEACHING 3910.</td>
<td>Class</td>
<td>P: junior standing</td>
</tr>
<tr>
<td>ART 4640</td>
<td>3</td>
<td>Drawing VI: Advanced Drawing</td>
<td>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.</td>
<td>Class</td>
<td>GE: Fine Arts</td>
</tr>
<tr>
<td>ART 4660</td>
<td>1 - 8</td>
<td>Cooperative Field Experience</td>
<td>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.</td>
<td>Field Studies</td>
<td></td>
</tr>
<tr>
<td>ART 4800</td>
<td>3</td>
<td>Painting V: Materials and Techniques of Painting</td>
<td>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.</td>
<td>Class</td>
<td>P: ART 1720 and 4 credits in 3000 or above level art courses</td>
</tr>
<tr>
<td>ART 4810</td>
<td>2 - 3</td>
<td>Independent Work in Crafts</td>
<td>Independent creative work in craft areas chosen by the student.</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>ART 4820</td>
<td>2 - 3</td>
<td>Independent Work in Design</td>
<td>Advanced work on design projects chosen by the student.</td>
<td>Independent Study</td>
<td>P: ART 1420 and ART 1520</td>
</tr>
<tr>
<td>ART 4830</td>
<td>2 - 3</td>
<td>Independent Work in Printmaking</td>
<td>Advanced work in printmaking media elected by the student.</td>
<td>Independent Study</td>
<td>P: ART 3220</td>
</tr>
<tr>
<td>ART 4840</td>
<td>2 - 3</td>
<td>Independent Work in Drawing</td>
<td>Drawing as an independent creative medium.</td>
<td>Independent Study</td>
<td>P: ART 2310</td>
</tr>
</tbody>
</table>
ART 4850  2 - 3 credits
Independent Work in Ceramics
Advanced work on projects chosen by the student.
   Components: Independent Study
   Prereqs/Coreqs: P: ART 3510

ART 4860  2 - 3 credits
Independent Work in Painting
Advanced painting in media elected by the student.
   Components: Independent Study
   Prereqs/Coreqs: P: 6 credits in painting and ART 2410

ART 4870  2 - 3 credits
Independent Work in Sculpture
Advanced work on sculpture projects chosen by the student.
   Components: Independent Study

ART 4880  2 - 3 credits
Independent Work in Sculpture Casting
Advanced work on sculpture projects chosen by the student.
   Components: Independent Study

ART 4890  2 - 3 credits
Independent Study in Art History
Independent research on specialized problems.
   Components: Independent Study
   Prereqs/Coreqs: P: ART 2140 or ART 2210

ART 4900  2 - 3 credits
Independent Study in Art Education
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  2 credits
Presentation and Marketing
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  1 credit
Senior Art Show
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 COURSES

BIOLOGY 1020  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. (Fall, Spring)
   Components: Class
   Prereqs/Coreqs: P: Biology or related major

BIOLOGY 1150  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: Discussion, 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. (Fall, Spring)
   Components: Discussion, Laboratory, Class

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. (Fall, Spring)
   Components: Discussion, Laboratory, Class
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
Anatomy and Physiology I
Designed as 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, skeletal, muscular and nervous systems. Throughout the semester, systems will be analyzed at the molecular, cellular, tissue, organ and organ system levels.
Components: Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P: BIOLOGY 1650 or consent of instructor

BIOLOGY 2240  4 credits
Anatomy and Physiology II
Continued study of the structure and function of the human body including the sensory, endocrine, digestive, respiratory, cardiovascular, lymphatic, urinary, and reproductive systems. Applications to health and physical education.
Components: Laboratory, Class
GE: Natural Science
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.
Components: Class
Cross Offering: GEOGRAPHY 2250
GE: International Education, Natural Science

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  2 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. (Fall, Spring)
Components: Laboratory, Class

BIOLOGY 2450  4 credits
Fungi, Algae and Bryophytes
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 located 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. (Fall, odd years)
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1350 or (BIOLOGY 1650 and BIOLOGY 1750). C: SPEECH 1010, BIOLOGY 3450 recommended

BIOLOGY 2640  4 credits
Invertebrate Zoology
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  3 credits
Ornithology
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 1750 and BIOLOGY 2420 or consent of instructor
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Prerequisites/Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 3040</td>
<td>4 credits</td>
<td>Comparative Anatomy of the Vertebrates</td>
<td>Comparative studies of organs and systems of Vertebrata; includes laboratory dissections of shark, necturus, and cat. Components: Laboratory, Class Prereqs/Coreqs: P: (BIOLOGY 2140 and BIOLOGY 2240) or BIOLOGY 2340 or consent of instructor</td>
</tr>
<tr>
<td>BIOLOGY 3120</td>
<td>2 credits</td>
<td>Animal Tissue Culture</td>
<td>Preparation of equipment and environment. Growth and maintenance. Media considerations. Various types of culture methods. Applications. Components: Laboratory, Class Prereqs/Coreqs: P: one college level biology and chemistry course or consent of instructor</td>
</tr>
<tr>
<td>BIOLOGY 3140</td>
<td>4 credits</td>
<td>Vertebrate Embryology</td>
<td>Lecture and laboratory study of amphibian, avian, and mammalian embryology. Components: Laboratory, Class Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor</td>
</tr>
<tr>
<td>BIOLOGY 3230</td>
<td>3 credits</td>
<td>Mammalogy</td>
<td>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. (Fall) Components: Laboratory, Class Prereqs/Coreqs: P: BIOLOGY 1750 and BIOLOGY 2420 or consent of instructor</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>4 credits</td>
<td>Microbiology</td>
<td>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 CHEMSTRY 1140 or consent of instructor</td>
</tr>
<tr>
<td>BIOLOGY 3330</td>
<td>3 credits</td>
<td>Genetics</td>
<td>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</td>
</tr>
<tr>
<td>BIOLOGY 3340</td>
<td>4 credits</td>
<td>Entomology</td>
<td>Structure, classification, life histories, behavior, and economic aspects of insects. An insect collection is required. See instructor for insect collection by May 1. Components: Laboratory, Class Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor</td>
</tr>
<tr>
<td>BIOLOGY 3450</td>
<td>4 credits</td>
<td>Ecology and Evolution</td>
<td>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. (Fall, Spring) Components: Class Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor</td>
</tr>
<tr>
<td>BIOLOGY 3460</td>
<td>4 credits</td>
<td>Ecological Methods and Research</td>
<td>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. (Fall) Components: Laboratory, Class Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 and BIOLOGY 2420; C: BIOLOGY 3450 or consent of instructor</td>
</tr>
<tr>
<td>BIOLOGY 3530</td>
<td>4 credits</td>
<td>Biotechnology</td>
<td>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</td>
</tr>
<tr>
<td>BIOLOGY 3550</td>
<td>4 credits</td>
<td>Morphology and Evolution of Vascular Plants</td>
<td>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. (Spring, odd years) Components: Laboratory, Class Prereqs/Coreqs: P: BIOLOGY 1350 or (BIOLOGY 1650 and BIOLOGY 1750)</td>
</tr>
</tbody>
</table>
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 com-
munities of Wisconsin and neighboring states. It emphasizes
the identification, biogeographic distribution, interrelation-
ships, conservation and management of the major regional
plant communities as well as their key plant species. Two
extended weekend field trips are required. (Fall)

Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1650 and 1750 or
BIOLOGY 1350 or consent of instructor; recommended:
BIOLOGY

BIOLOGY 3660  4 credits
Animal Communities of Wisconsin
A survey of animals specific to, and characteristic of, Wis-
sconsin’s major ecological communities. Key ecological
relationships that link animals to each other, as well as to the
plants that define their habitat will be reviewed. Emphasis on
organism identification. Two extended weekend field trips are
required. (Spring)

Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1750

BIOLOGY 3750  3 credits
Freshwater Biology
Examination of the physical components and biological
communities of lakes, streams, and wetlands and the rela-
tionships between them. Integration of fieldwork, scientific
literature, and laboratory analyses.

Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1750 and BIOLOGY 2420
and (CHEMSTRY 1050 or CHEMSTRY 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 Biol-
ogy 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. Explora-
tion 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, prin-
ciples 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
CHEMSTRY 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. (Fall, even
years)

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, empha-
sizing recent advancements.

Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 2140 and BIOLOGY 2240
or BIOLOGY 2340 and BIOLOGY 2420 and
CHEMSTRY 1240

BIOLOGY 4340  4 credits
Mammalian Histology
The organization of cells and their products to form tissues
and organs; morphological and functional comparisons of tis-
sue 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 prosected 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. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: BIOLOGY 1350 (or BIOLOGY 1650 and 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 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. (Fall, Spring)
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 ethical issues in biology. Students will also explore and reflect on what it means to be a biologist. (Fall, Spring)
Components: Class
Prereqs/Coreqs: P: Biology major with senior standing

BUSINESS ADMINISTRATION COURSES

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
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 2300  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; 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 3130</td>
<td>3</td>
<td>The Legal Environment of Business</td>
<td>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 included.</td>
<td>Class</td>
</tr>
<tr>
<td>BUSADMIN 3140</td>
<td>3</td>
<td>Managerial Law</td>
<td>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.</td>
<td>Class</td>
</tr>
<tr>
<td>BUSADMIN 3150</td>
<td>3</td>
<td>Principles of Real Estate</td>
<td>Classification and acquisition of property rights, types of estates in property, relation of landlord and tenancy, conveyancing, liens and mortgages, real estate brokerage.</td>
<td>Class</td>
</tr>
<tr>
<td>BUSADMIN 3230</td>
<td>3</td>
<td>Small Business Management</td>
<td>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.</td>
<td>Class</td>
</tr>
<tr>
<td>BUSADMIN 3240</td>
<td>3</td>
<td>E-Commerce and E-Marketing in Today's World</td>
<td>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. (Every other Fall)</td>
<td>Discussion, Class</td>
</tr>
<tr>
<td>BUSADMIN 3330</td>
<td>3</td>
<td>Labor Law</td>
<td>A study of legislative and judicial regulation of labor and management designed to familiarize the individual with the historical development of labor legislation, NLRB rulings, court decisions, and current problems.</td>
<td>Class</td>
</tr>
<tr>
<td>BUSADMIN 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.</td>
<td>Class</td>
</tr>
<tr>
<td>BUSADMIN 3400</td>
<td>3</td>
<td>Personal Financial Planning</td>
<td>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.</td>
<td>Class</td>
</tr>
<tr>
<td>BUSADMIN 3430</td>
<td>3</td>
<td>Risk Management</td>
<td>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.</td>
<td>Class</td>
</tr>
<tr>
<td>BUSADMIN 3450</td>
<td>3</td>
<td>Employment Law</td>
<td>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.</td>
<td>Class</td>
</tr>
</tbody>
</table>

Prereqs/Coreqs:

P: BUSADMIN 3030

Cross Offering: WOMGENDR 3340, ETHNSTDY 3340

GE: Ethnic and Gender

P: BUSADMIN 3130 or AGINDUS 1500 or junior standing

P: BUSADMIN 2630 or AGINDUS 2430

P: BUSADMIN 3130 or consent of instructor

P: BUSADMIN 2630 or AGINDUS 2430

P: BUSADMIN 2330 or AGINDUS 1500 or junior standing

P: BUSADMIN 2630 or AGINDUS 2430
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 will be project-based in a team environment.

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 3540 3 credits
Quality Management
Provides an understanding of the tools, language, and techniques used in the field of Quality Management. The history of the quality movement, major tenets of the field, theorists 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 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 system framework. The course also has a focus on the management and regulation of both markets and institutions. Web assignments are an integral part of this course.

Components: Class
Prereqs/Coreqs: P: BUSADMIN 3620

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 3620

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)

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 3620
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
<th>Description</th>
<th>Components</th>
<th>Prereqs/Coreqs</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 3720</td>
<td>3 credits</td>
<td>International Marketing</td>
<td>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.</td>
<td>Class</td>
<td>P: BUSADMIN 2630 or AGINDUS 2430</td>
</tr>
<tr>
<td>BUSADMIN 3740</td>
<td>3 credits</td>
<td>Consumer Behavior</td>
<td>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.</td>
<td>Class</td>
<td>P: BUSADMIN 2630 or AGINDUS 2430</td>
</tr>
<tr>
<td>BUSADMIN 3750</td>
<td>1 - 3 credits</td>
<td>International Short Study</td>
<td>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 much 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.</td>
<td>Class</td>
<td>GE: International Education</td>
</tr>
<tr>
<td>BUSADMIN 3820</td>
<td>3 credits</td>
<td>Professional Selling</td>
<td>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.</td>
<td>Class</td>
<td>P: SPEECH 1010 or SPEECH 1250</td>
</tr>
<tr>
<td>BUSADMIN 3830</td>
<td>3 credits</td>
<td>Sales Management</td>
<td>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.</td>
<td>Class</td>
<td>P: BUSADMIN 2630 or AGINDUS 2430</td>
</tr>
<tr>
<td>BUSADMIN 3930</td>
<td>3 credits</td>
<td>Investments</td>
<td>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.</td>
<td>Class</td>
<td>P: BUSADMIN 3620</td>
</tr>
<tr>
<td>BUSADMIN 4030</td>
<td>3 credits</td>
<td>Financial Decision Making</td>
<td>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.</td>
<td>Class</td>
<td>P: C- or better in BUSADMIN 3620</td>
</tr>
<tr>
<td>BUSADMIN 4110</td>
<td>3 credits</td>
<td>Management Science</td>
<td>An introduction to quantitative methods used in business. Introduction to decision theory, linear programming and its applications, network and scheduling models. (Fall)</td>
<td>Class</td>
<td>Cross Offering: ECONOMIC 4110</td>
</tr>
<tr>
<td>BUSADMIN 4120</td>
<td>3 credits</td>
<td>Operations Management</td>
<td>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.</td>
<td>Class</td>
<td>P: (BUSADMIN 2330 or AGINDUS 1500) and (ECONOMIC 2410 or MATH 1830)</td>
</tr>
</tbody>
</table>
BUSADMIN 4140  3 credits
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  3 credits
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 or BUSADMIN 3630 or ECONOMIC 2410 or statistics equivalent

BUSADMIN 4160  3 credits
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  3 credits
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  3 credits
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  3 credits
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  3 credits
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  1 - 4 credits
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  1 - 4 credits
Special Topics
Specific contemporary or other business-related issues will be explored in depth. Topics vary.

Components: Class
BUSADMIN 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. 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 COURSE DESCRIPTIONS

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. (Fall, Spring)

Components: Discussion, Class
Prereqs/Coreqs: P: math placement score of 15 or higher

CHEMISTRY 1050  5 credits
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. (Fall, Spring)

Components: Discussion, Laboratory, Class
GE: Natural Science

CHEMISTRY 1140  4 credits
General Chemistry
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. (Fall, Spring, Summer)

Components: Exam, Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 1020 and previous completion or concurrent enrollment in MATH 1530 or higher

CHEMISTRY 1240  4 credits
General Chemistry
Second semester of a two-semester sequence. Kinetics, chemical equilibrium, electrochemistry, thermodynamics, organic, descriptive and nuclear chemistry. (Fall, Spring)

Components: Exam, Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 1140

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, materials science, solid state, and organic chemistry. (Fall, Spring)

Components: Exam, Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P: an “A” or “B” in high school chemistry or a “C” or better in CHEMSTRY 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. (Fall, Spring, Summer)

Components: Independent Study
Prereqs/Coreqs: P: a “C-” or better in one semester of general chemistry

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. (Spring)

Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 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. (Fall)

Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 1240

CHEMISTRY 3110  1 credit
Environmental Chemistry Lab
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. (Fall)

Components: Laboratory
Prereqs/Coreqs: P: CHEMSTRY 3130 or concurrent enrollment
**CHEMSTRY 3130** 3 credits  
**Environmental Chemistry**  
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. (Fall)  
Components: Class  
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 1240 or CHEMSTRY 1450

**CHEMSTRY 3270** 2 credits  
**Forensic Chemistry**  
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. (Fall)  
Components: Class  
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 2150 and CHEMSTRY 3540

**CHEMSTRY 3510** 1 credit  
**Organic Chemistry Laboratory**  
Laboratory complementary to CHEMSTRY 3540 which involves an introduction to basic organic laboratory techniques including gas chromatography and infrared spectroscopy. (Fall)  
Components: Laboratory  
Prereqs/Coreqs: P: CHEMSTRY 3540 or concurrent enrollment

**CHEMSTRY 3540** 4 credits  
**Organic Chemistry Lecture**  
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. (Fall)  
Components: Exam, Laboratory, Class  
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 1240

**CHEMSTRY 3610** 1 credit  
**Organic Chemistry Laboratory**  
Continuation of CHEMSTRY 3510. Complementary to CHEMSTRY 3630 involving preparations of greater difficulty and an introduction to organic qualitative analysis. (Fall)  
Components: Laboratory  
Prereqs/Coreqs: P: CHEMSTRY 3510 and C: CHEMSTRY 3630

**CHEMSTRY 3630** 3 credits  
**Organic Chemistry Lecture**  
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. (Spring)  
Components: Class  
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 3540

**CHEMSTRY 3810** 1 credit  
**Chemical Synthesis and Characterization**  
For students desiring additional laboratory experience. In cooperation with the instructor, students will select experiments which require insights application and execution of more sophisticated techniques. (Spring)  
Components: Laboratory  
Prereqs/Coreqs: P or C: CHEMSTRY 3610

**CHEMSTRY 3900** 1 - 3 credits  
**Directed Studies**  
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. (Fall, Spring, Summer)  
Components: Independent Study  
Prereqs/Coreqs: P: 12 credits of chemistry

**CHEMSTRY 4000** 1 - 3 credits  
**Undergraduate Research**  
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. (Fall, Spring, Summer)  
Components: Independent Study  
Prereqs/Coreqs: P: 18 credits in chemistry and department consent

**CHEMSTRY 4060** 1 credit  
**Chemistry Seminar**  
This course will develop student’s abilities to present scientific findings in both seminar and poster format. (Spring)  
Components: Seminar  
Prereqs/Coreqs: P: satisfied speech general education requirement and a chemistry major

**CHEMSTRY 4110** 1 credit  
**Physical Chemistry Lab I**  
Experimental studies applying theoretical principles to practical problems and processes involving chemical and physical phenomena. Fundamentals of chemical measurement using chemical and physical sensors. (Fall)  
Components: Laboratory  
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 2150; C: “C-” or better in CHEMSTRY 4130

**CHEMSTRY 4130** 3 credits  
**Physical Chemistry**  
Atomic structure, thermodynamics and quantum mechanics, molecular structure, spectroscopy, intermolecular interactions, macromolecules, structure of liquids and solids. (Fall)  
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
CHEMSTRY 4210  3 credits
Physical Chemistry Lab II
Advanced experimental studies applying theoretical principles to chemical and physical phenomena. (Spring)
Components: Laboratory
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 4110; P or C: CHEMSTRY 4230

CHEMSTRY 4230  3 credits
Physical Chemistry
Statistical and quantum mechanics, transport processes, thermodynamics, spectroscopy, solutions, phase transitions, and kinetics. (Spring)
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 4130 and (PHYSICS 2340 or PHYSICS 2640 and PHYSICS 2610) and MATH 2840

CHEMSTRY 4240  4 credits
Instrumental Analysis
Theory and laboratory experience in instrumental methods of analysis; common electrochemical and spectrochemical methods, chromatographic methods, electronics and other selected topics. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in both CHEMSTRY 2150 and CHEMSTRY 4130

CHEMSTRY 4610  1 credit
General Biochemistry Lab
Chemistry of biological compounds and biochemical techniques. (Spring)
Components: Laboratory
Prereqs/Coreqs: C: CHEMSTRY 4630 or concurrent enrollment

CHEMSTRY 4630  3 credits
General Biochemistry
Introduction to the chemistry of proteins, carbohydrates, lipids, and nucleic acids in biological systems including the basics of metabolism and enzyme kinetics. (Spring)
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 3540

CHEMSTRY 4660  1 - 8 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 the department. (Fall, Spring, Summer)
Components: Field Studies

CHEMSTRY 4680  8 credits
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 CHEMSTRY 2150 and CHEMSTRY 3630

CHEMSTRY 4730  2 credits
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. (Spring)
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 2730 and CHEMSTRY 4130

CHEMSTRY 4820  2 credits
Advanced Topics in Physical Chemistry
Topics selected from thermodynamics, chemical kinetics, atomic and molecular structure, statistical mechanics, nuclear and radiation chemistry. (Spring)
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 4230

CHEMSTRY 4830  3 credits
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. (Fall)
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CHEMSTRY 4630

CHEMSTRY 4910  1 credit
Advanced Biochemistry Laboratory
Advanced experimental studies applying theoretical principles discussed in CHEMSTRY 4830 including protein binding, protein characterization, gene expression and gene regulation.
Components: Laboratory

CHINESE COURSES

CHINESE 1540  4 credits
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
CHINESE 1640  4 credits
Elementary Chinese
A continuation of Chinese 1540 with an emphasis on basic writing, reading, and conversational skills in Mandarin Chinese. Students will also continue to study the culture and civilization of China.

Components: Laboratory, Class
Prereqs/Coreqs: P: CHINESE 1540 or equivalent

CIVIL ENGINEERING COURSES

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). (Fall & Spring)

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. (Fall odd-numbered semesters)

Components: Class
GE: Social Sciences
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. (Fall & Spring)

Components: Class
Prereqs/Coreqs: P: MATH 2540; C: CIVILENG 2630

CIVILENG 2630  2 credits
Elements of Surveying
General use and care of surveying instruments; elevation determination, horizontal positioning; coordinate systems, topographic surveys, introduction to boundary surveys, horizontal and vertical curves. (Fall, Spring)

Components: Laboratory, Class
Prereqs/Coreqs: P: GENENG 1320 or INDUSTDY 1230; C: MATH 2530 or 2450

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. (Fall, Spring)

Components: Laboratory, Class
Prereqs/Coreqs: P: CIVILENG 2120 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 mixes; bituminous materials and mixes; influences of mix properties on pavement durability. Construction material design projects. (Fall, Spring)

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. (Fall & Spring)

Components: Class
Prereqs/Coreqs: P: MATH 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. (Fall & Spring)

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. (Fall, Spring)
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: CHEMISTRY 1450 and (a "C-" or better in CIVILENG 2220 or COMPUTER 1830)

CIVILENG 3530  3 credits
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: a "C-" or better in CIVILENG 2220 and CIVILENG 2630

CIVILENG 3740  4 credits
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 walls; 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. (Fall & Spring)
Components: Class
Prereqs/Coreqs: P: GENENG 2340 and CIVILENG 2220 and CIVILENG 2000

CIVILENG 3950  4 credits
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. (Fall, Spring)
Components: Field Studies
Prereqs/Coreqs: P: junior standing

CIVILENG 3970  1 credit
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. (Summer)
Components: Field Studies

CIVILENG 4020  3 credits
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. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: a "C-" or better in CIVILENG 3020 or INDUSTDY 2540

CIVILENG 4040  3 credits
Construction and Professional Management
Construction management decision making; engineering economic comparisons, scheduling, bidding techniques, introduction to labor agreements, safety and QA/QC. (Spring)
Components: Class
Prereqs/Coreqs: P: CIVILENG 3020 or INDUSTDY 2540; C: MATH 4030
CIVILENG 4100  3 credits
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. (Every third semester)
Components: Class
Prereqs/Coreqs: C: CIVILENG 3160

CIVILENG 4150  3 credits
Reinforced Concrete Structures
Design of reinforced concrete beams and one-way slabs for flexure, shear, and development of reinforcement. Analysis of non-rectangular beams and beams with compression steel. Design of short columns. Structural design of spread footings and retaining walls. (Spring)
Components: Class
Prereqs/Coreqs: P: CIVILENG 3160

CIVILENG 4160  3 credits
Foundation Design
Bearing capacities and lateral earth pressures; design and computer application of shallow foundations, piles and caissons, retaining structures. (Fall)
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3740; C: CIVILENG 3160

CIVILENG 4230  3 credits
Steel Design
Behavior and properties of structural steel, proportioning of members and connections; AISC-LRFD specifications. Integrated design project. (Spring)
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. (Every other semester)
Components: Class
Prereqs/Coreqs: C: CIVILENG 3110

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, TR 55, 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. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: MATH 4030 or MATH 2430 and 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
Solid and Hazardous Waste Engineering
Waste minimization; toxicology and risk; physico-chemical and biological process design; composting; solid waste landfill design; life cycle analysis; recycling; regulatory framework. (Spring)
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. (Fall)
Components: Class
Prereqs/Coreqs: P: CIVILENG 3300 and CIVILENG 3340

CIVILENG 4410  3 credits
Wastewater and Drinking Water Treatment
Determination of sewage flowrates; water and wastewater characteristics; design of facilities for wastewater and drinking water treatment; residuals processing and management; advanced wastewater treatment and effluent disposal. (Spring)
Components: Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3340

CIVILENG 4440  3 credits
Stormwater, Wetlands, and Watershed Management
Function, quality and distribution of wetlands; wetland delineation, permitting, mitigation and construction. Urban stormwater quality and management; regulatory framework. Best management practices to treat and manage stormwater. Computer modeling of environmental systems and waste load allocation. (Fall)
Components: Class
Prereqs/Coreqs: P: CIVILENG 3340 and CIVILENG 4300
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. (Fall)

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. (Spring)

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. (Fall)

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. (Spring)

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. (Fall)

Components: Laboratory, Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 2220 and CIVILENG 2630

CIVILENG 4640  
3 credits
Land Development and Planning
Comparison of common land development practices to low impact conservation subdivisions. Analysis of impacts of land development in terms of economic development, comprehensive planning (e.g. Smart Growth), environmental impacts, and sustainability. Design of a subdivision, oral presentations, analysis of zoning and other ordinances. (Spring)

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. (Spring)

Components: Class
Prereqs/Coreqs: P: a “C-” or better in CIVILENG 3740

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. (Fall, Spring)

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. (Fall, Spring)

Components: Class

CIVILENG 4990  
1 - 3 credits
Independent Study
Advanced study in area of specialization selected by student and approved by faculty member. (Fall, Spring, Summer)

Components: Independent Study

COMPUTER SCIENCE COURSES

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. (Fall, Spring, Summer)

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 en-grain the syntax and semantics of C++. A few larger, out-of-class programs tie the concepts together. (Fall, Spring)
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.) (Fall, Spring, Summer)
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. (Spring)
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. (Fall)
Components: Class
Prereqs/Coreqs: P: COMPUTER 1430

COMPUTER 2430  3 credits
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: COMPUTER 1430

COMPUTER 2630  3 credits
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. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: COMPUTER 2430

COMPUTER 2830  3 credits
Advanced Microcomputer Applications
This course is designed to acquaint the students with additional microcomputer applications beyond that of COMPUTER 1830. In particular, the major emphasis will be on configuration and setup of microcomputers; communication software (the use of the Internet); presentation software; multimedia; advanced spreadsheet topics such as advanced graphing, macros, and data analysis; and an application related to the student's major. A presentation and paper will be developed by the student on a particular software application, e.g. an expert system, an accounting package, decision making software, Human Resource Information System (HRIS), etc. (Variable)
Components: Class
Prereqs/Coreqs: P: COMPUTER 1830

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. (Spring odd years)
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. (Fall)
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. (Spring)

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). (Spring)

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. (Fall)

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. (Spring)

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. (Spring)

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. (Fall)

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. (Fall)

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. (Fall odd years.)

Components: Class
Prereqs/Coreqs: P: COMPUTER 2630 and MATH 2640

COMPUTER 3930  3 credits
CICS Application Programming
An introduction to CICS command-level programming using COBOL. Techniques to design and develop on-line application programs with CICS, a data communication system to maintain and access files and data bases. (Fall)

Components: Class
Prereqs/Coreqs: P: COMPUTER 3530

COMPUTER 4110  1 credit
Seminar
The course consists of lectures/discussions presented by both computer science faculty and students enrolled in the class. (Fall, Spring)

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. (Fall)

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 class will be listed in the class schedule. Students should check with the instructor for details. (Variable)
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. (Fall, Spring, Summer)
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, (Fall, Spring, Summer)
Components: Field Studies
Prereqs/Coreqs: P: junior or senior standing; 18 or more hours of computer science credit

COUNSELING PSYCHOLOGY COURSES

COUNSPSY 2220  1 credit
Career Planning and Decision Making
An opportunity for students to explore their values, attitudes, interests, abilities, experiences and to relate them to the world of work. There will be practice in decision-making and job-hunting skills.
Components: Class

COUNSPSY 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

COUNSPSY 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

COUNSPSY 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

COUNSPSY 4930  1 - 3 credits
Seminar in Educational Issues
Study in depth of a current issue, idea, or topic of interest to professional educators. The topic to be covered each time is appended to the course designation in the schedule.
Components: Seminar
Prereqs/Coreqs: P: junior standing or consent of instructor

COUNSPSY 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 COURSES

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

CRIMLJUS 2130  3 credits
The Police Function
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 government; models and styles of police behavior.
Components: Class
Prereqs/Coreqs: P: CRIMLJUS 1130 with a “C-” or better

CRIMLJUS 2230  3 credits
Correctional Philosophy
The theories, philosophies and practices of corrections; sentencing structures and their relationship to correctional objectives; the modes of correctional intervention.
Components: Class
Prereqs/Coreqs: P: CRIMLJUS 1130 with a “C-” or better

CRIMLJUS 2340  3 credits
U.S. Courts and the Criminal Justice System
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.
Components: Class
Prereqs/Coreqs: P: CRIMLJUS 1130 with a “C-” or better
CRIMLJUS 2630 3 credits
Private Security Operations
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.
Components: Class

CRIMLJUS 2830 3 credits
Ethnicity, Race and Crime
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.
Components: Class
Cross Offering: ETHNSTDY 2830
GE: Ethnic Studies
Prereqs/Coreqs: sophomore standing to enroll in this class

CRIMLJUS 2930 3 credits
Interviewing
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.
Components: Class

CRIMLJUS 3130 3 credits
Criminal Investigation
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.
Components: Discussion, Class
Prereqs/Coreqs: P: CRIMLJUS 2130 with a "C-" or better and junior standing or junior standing

CRIMLJUS 3230 3 credits
Comparative Criminal Justice Systems
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.
Components: Class
Prereqs/Coreqs: P: CRIMLJUS 2130 and CRIMLJUS 2230 with a "C-" or better in each and junior standing

CRIMLJUS 3330 3 credits
Police Administration
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.
Components: Class
Prereqs/Coreqs: P: CRIMLJUS 2130 with a "C-" or better and junior standing

CRIMLJUS 3430 3 credits
Patterns of Criminal and Delinquent Behavior
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.
Components: Class
Prereqs/Coreqs: P: CRIMLJUS 2130 and CRIMLJUS 2230 with a "C-" or better in each and junior standing

CRIMLJUS 3530 3 credits
Correctional Institutions
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.
Components: Class
Prereqs/Coreqs: P: CRIMLJUS 2230 with a "C-" or better and junior standing

CRIMLJUS 3630 3 credits
Juvenile Justice
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.
Components: Class
Prereqs/Coreqs: P: CRIMLJUS 2230 with a "C-" or better and junior standing

CRIMLJUS 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: WOMGENDR 3730
GE: Gender Studies, Social Sciences
Prereqs/Coreqs: P: CRIMLJUS 1130 or one course in women's studies and junior standing
CRIMLJUS 3830  3 credits
Crime Prevention
An investigation of the prevention of crime utilizing changes in both the physical and social environment of the community.

Components: Class
Prereqs/Coreqs: P: CRIMLJUS 1130 with a “C-” or better and junior standing

CRIMLJUS 3900  3 credits
Research Methods in Criminal Justice
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.

Components: Class
Prereqs/Coreqs: 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

CRIMLJUS 3930  3 credits
Law of Corrections
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.

Components: Class
Prereqs/Coreqs: P: CRIMLJUS 2230 with a “C-” or better and junior standing

CRIMLJUS 4030  3 credits
Criminal Law
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.

Components: Class
Prereqs/Coreqs: P: CRIMLJUS 2130 and CRIMLJUS 2230 with a “C-” or better in each and junior standing

CRIMLJUS 4130  3 credits
Police-Community Relations
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.

Components: Class
Prereqs/Coreqs: P: CRIMLJUS 2130 with a “C-” or better and junior standing

CRIMLJUS 4230  3 credits
Community-Based Corrections
Community-based correctional programs; pre- and post-trial; a critical investigation of theories, practices and problems involved in pre-trial diversion, probation and parole.

Components: Class
Prereqs/Coreqs: P: CRIMLJUS 2230 with a “C-” or better and junior standing

CRIMLJUS 4330  3 credits
Criminal Procedure and Evidence
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.

Components: Class
Prereqs/Coreqs: P: CRIMLJUS 4030 with a “C-” or better and junior standing

CRIMLJUS 4430  3 credits
Issues in Criminal Justice Planning and Management
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.

Components: Class

CRIMLJUS 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: FORENSIC 4500
Prereqs/Coreqs: P: CRIMLJUS 4030 with a “C-” or better, an accumulated GPA of 2.50 and junior standing

CRIMLJUS 4530  3 credits
Social Welfare Policy
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. (Spring)

Components: Class
Prereqs/Coreqs: 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
CRIMLJUS 4540  
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. (Fall)  
Components: Class

CRIMLJUS 4630  
Current Topics in Criminal Justice  
Current issues in criminal justice that 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  
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  
Prereqs/Coreqs: P: CRIMLJUS 4030 with a “C-” or better and junior standing

CRIMLJUS 4840  
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. (Fall)  
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  
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. (Spring)  
Components: Class  
Cross Offering: PSYCHLGY 4850  
Prereqs/Coreqs: P: PSYCHLGY 4840 or CRIMLJUS 4840

CRIMLJUS 4880  
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 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

CRIMLJUS 4930  
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 COURSES

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. (Fall, Spring, Summer)
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. (Fall, Spring, Summer)
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. (Fall, Spring)
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: ECONOMIC 2940, POLISCI 2940
GE: Ethnic and Gender, Social Sciences

ECONOMIC 3530  3 credits
Economic History of the U.S.: The First Three Hundred Years
An introductory survey of the evolution of the market economy of the United States up the 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, European countries, and others.
Components: Class
GE: International Education, Social Sciences

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
GE: Social Sciences
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. (Fall)
Components: Class
GE: Social Sciences
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  
GE: Social Sciences  
Prereqs/Coreqs: P: ECONOMIC 2130, ECONOMIC 2230

ECONOMIC 4930  3 credits  Senior Seminar  
Critical examination of select economic policy issues with active participation by Economics program faculty and other invited guests. (Spring)  
Components: Seminar  
GE: Social Sciences  
Prereqs/Coreqs: P: junior standing; recommended: ECONOMIC 2130 and ECONOMIC 2230

ECONOMIC 4940  1 - 4 credits  Special Problems  
Supervised reading on selected economic problems.  
Components: Independent Study  
GE: Social Sciences  
Prereqs/Coreqs: P: ECONOMIC 2130 and ECONOMIC 2230

ECONOMIC 4990  1 - 8 credits  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 COURSES

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. (Fall, Spring)  
Components: Laboratory

ELECTENG 1210  3 credits  Circuit Modeling I  
Voltage, current, resistance, and impedance. Opamps. Phasors. Ohm’s law, Kirchhoff’s laws, superposition, and Thevenin’s and Norton’s theorems applied to the modeling of zero-order networks. Complex numbers and algebra. (Fall, Spring)  
Components: Laboratory, Class  
Prereqs/Coreqs: P: “C-” or better in MATH 2640

ELECTENG 2210  4 credits  Circuit Modeling II  
Phasors and sinusoidal steady-state analysis and power. Resonant circuits. Mutual inductance. Transient response of linear networks with Laplace transform. (Fall, Spring)  
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. (Fall, Spring)  
Components: Discussion, Laboratory, Class  
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2210. C: MATH 3630

ELECTENG 3020  4 credits  Analog Electronics  
Diode circuits. Biasing of semiconductor devices. Analysis and design of linear amplifiers. Use of opamps. (Fall, Spring)  
Components: Discussion, Laboratory, Class  
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2210

ELECTENG 3130  4 credits  Solid State Electronic Devices  
Physics of semiconductor devices. Energy band diagrams, Fermi levels, and Fermi-Dirac statistics. Metal-semiconductor and p-n junctions. Functioning of diodes, BJT’s, FET’s, and thyristors. Small signal equivalent circuits. Nonlinear modeling using computers. (Fall)  
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. (Fall, Spring)  
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 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. (Fall, Spring)
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. (Fall, Spring)
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: ELECTENG 2210 with a “C-” or
better or GENENG 2930 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, prototyp-
ing, and testing. State machine design and implementation.
Introduction to HDL and programmable logic devices. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 1210

ELECTENG 3780 4 credits
Introduction to Microprocessors
Introduction to microprocessor assembly language program-
ing. Fundamentals of microprocessor architecture, data
representation, and arithmetic. System debugging. Interfacing
and interrupts. Microprocessor- and microcontroller-based
system design, testing, and implementation. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in COMPUTER 1430
and ELECTENG 3770

ELECTENG 3950 4 credits
Electrical Engineering Cooperative Education
Work experience in industry under the direction of the Col-
lege 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. (Fall, Spring)
Components: Field Studies
Prereqs/Coreqs: P: junior standing

ELECTENG 3970 1 credit
Electrical Engineering Internship
Work experience in industry under the direction of the depart-
ment chair and College of Engineering, Mathematics and Sci-
ence 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.
(Summer)
Components: Field Studies
Prereqs/Coreqs: junior standing

ELECTENG 4010 1 credit
UHF Amplifier Design
Scattering parameters, the Smith Chart, lumped-element im-
pedance matching, transistor characterization, device stability,
UHF CAD techniques, and transistor bias techniques.
Components: Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3020

ELECTENG 4020 1 credit
UHF Oscillator Design
Scattering parameters, the Smith Chart, transistor character-
ization, 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 4 credits
Analog IC Design
Design of integrated electronic circuits such as operational
amplifiers, oscillators, modulators, and A/D converters.
(Spring, even-numbered years)
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2220
and ELECTENG 3020 and ELECTENG 3130

ELECTENG 4050 4 credits
Advanced Analog Electronic Circuits
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.
(Spring, odd-numbered years)
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2220
and ELECTENG 3020 and ELECTENG 3130

ELECTENG 4310 4 credits
Modern Control Systems
State space modeling of systems, solution of state equations,
controllability and observability, Lyapunov stability, minimum
realization, and state feedback design. (Spring Odd Years)
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3320
ELECTENG 4320  4 credits
Digital Signal Processing
Discrete time systems, frequency response of linear time
invariant systems, Z transforms, discrete Fourier transform,
FFT. Design of FIR and IIR digital filters. (Spring Even Years)
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 2220
and COMPUTER 1430

ELECTENG 4350  4 credits
Discrete Time Control Systems
Z-transforms, sampling theory, analysis and design of digital
control systems. (Fall)
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3320

ELECTENG 4430  4 credits
Power Electronics
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.. (Fall Odd Years)
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3020
and ELECTENG 3410 and ELECTENG

ELECTENG 4440  4 credits
Electric Motor Drives
Theory and operation of modern AC electric motor drives,
multiple reference frame theory for three-phase AC system,
dynamic modeling of induction machines, operation of the
fully controlled three-phase power converters, speed and
torque control of induction motors, Voltage/Hertz control, per-
manent magnet synchronous motor drives, DC motor drives.
(Fall Even Years)
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3020
and ELECTENG 3320 and ELECTENG 3410

ELECTENG 4450  4 credits
Power Systems Analysis and Design
Power systems modeling, load flow, economic dispatch, sta-
bility, fault analysis, computer simulation and systems analy-
sis. (Spring)
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3410

ELECTENG 4610  4 credits
Communication Systems
Analysis and design of amplitude, angle, and pulse code
modulation systems. (Fall)
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, non-
linear optics, integrated optics, optical fibers, optical commu-
nications systems. (Spring)
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3140,
ELECTENG 4610 and PHYSICS 3140 or consent
of instructor

ELECTENG 4630  4 credits
Advanced Communication Systems
Probability theory, random signals, performance and design
of CW and pulse modulation systems, information and coding
theory. (Fall by demand)
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 4610

ELECTENG 4720  4 credits
Microcomputer Architecture and Interfacing
Computer architecture including processor design, micro-
programmed control, memory organization, interconnection
structures, input/output, interfacitechniques, and parallel
processing. (Spring)
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. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: “C-” or better in ELECTENG 3140
and ELECTENG 3130

ELECTENG 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

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 COURSES

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. (Fall, Spring)
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 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. (Fall, Spring)
Components: Class
Prereqs/Coreqs: P: ENERGY 2340 and CHEMSTRY 1050 or higher

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 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 UW-Platteville and work for a company or institution for a semester. (Spring or Fall)
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. (Summer)
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 3240 and senior standing
### ENERGY COURSES

**ENERGY 4980**

**Current Topics in Energy**

1 - 3 credits

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**

**Independent Study**

1 - 3 credits

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 COURSES

**ENGLISH 1130**

**Freshman Composition**

3 credits

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**

**Freshman Composition**

3 credits

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**

**Introduction to Literature**

3 credits

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**

**Thematic Studies in Literature**

3 credits

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 2120**

**Introduction to Creative Writing**

3 credits

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. (Fall)

- **Components:** Class
- **Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

**ENGLISH 2130**

**British Literature i: Beginnings through the Age of Swift**

3 credits

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. (Fall)

- **Components:** Class
- **GE:** Humanities
- **Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

**ENGLISH 2150**

**Introduction to Gay Studies**

3 credits

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
- **Cross Offering:** WOMGENDR 2150
- **GE:** Gender Studies, Humanities-2nd course only, International Education
- **Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

**ENGLISH 2210**

**Introduction to Linguistics**

3 credits

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: Discussion, 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 2530  3 credits
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  3 credits
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, and Dante.
 Components: Class
 GE: Humanities, International Education
 Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2650  3 credits
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, and Kincaid. (Spring)
 Components: Class
 GE: Humanities, International Education
 Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2770  3 credits
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 an influences the film styles that are more familiar to American students. Such a breadth of knowledge will 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  3 credits
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
 GE: Ethnic and Gender, Humanities
 Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2830  3 credits
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  3 credits
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, WOMGENDR 2930
GE: Ethnic and Gender, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3000  3 credits
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  3 credits
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-2nd course only
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3130  3 credits
The English Novel Through the Romantic Movement
The development of the British novel through the Romantic movement, including such writers as Defoe, Richardson, Fielding, Sterne, Smollett, Austen and the Brontes.

Components: Class
GE: 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 ENGLISH 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 ENGLISH 1230
ENGLISH 3230  3 credits
The English Novel and Short Story Since the Romantic-Movement
The novel and the short story in Britain from Dickens to the present, including such writers as Thackeray, Meredith, Eliot, Hardy, Trollope, Conrad, Galsworthy, Joyce, Mansfield, Woolf, Lawrence, Huxley, Maugham, 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
GE: International Education
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
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and 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
GE: Gender Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3330  3 credits
English Drama
Drama in Great Britain (exclusive of Shakespeare) from its beginning to the present, including such figures as Marlowe, Jonson, Beaumont, Fletcher, Webster, Dryden, Congreve, Sheridan, Shaw, O’Casey, Eliot, Osborne and Pinter.
Components: Class
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3340  3 - 6 credits
Magazine Writing and Editing
An advanced writing and editing course concentrating on planning, creating, and evaluating written copy for print and on-line 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 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
GE: Ethnic Studies, Humanities
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 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
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and 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
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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGLISH 3630</td>
<td>3</td>
<td>Mark Twain and American Humor</td>
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<td>The structure and literary art of American humor as exemplified by Mark Twain and other writers, including Artemus Ward, Finley Peter Dunne, Ring Lardner, James Thurber, Kurt Vonnegut and Woody Allen.</td>
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<td>Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
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<tr>
<td>ENGLISH 3730</td>
<td>3</td>
<td>Black Literature in America</td>
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<td>A survey of African American literature beginning in the antebellum period and continuing to the present, including oral forms (folk tales and spirituals), novels, poetry, drama, autobiography, and other selected non-fiction.</td>
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<td>Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
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<tr>
<td>ENGLISH 3740</td>
<td>3</td>
<td>Asian American Literature</td>
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<td>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.</td>
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<td>GE: Ethnic Studies, Humanities</td>
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<td>Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
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<tr>
<td>ENGLISH 3750</td>
<td>3</td>
<td>American Literature of Ethnicity and Immigration</td>
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<td>An examination of literature from a variety of U.S. &quot;racial&quot; and &quot;ethnic&quot; groups, including African-, Italian-, Mexican-, Jewish-, Asian-, and Native-American. Emphasis will be placed on the meanings of &quot;race&quot; and &quot;ethnicity,&quot; the effects of immigration, and the impact of gender in this literature.</td>
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<td>GE: Ethnic Studies, Humanities</td>
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<td>Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
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<tr>
<td>ENGLISH 3760</td>
<td>3</td>
<td>Wisconsin Indian Literature</td>
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<td>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.</td>
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<td>Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
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<td>ENGLISH 3810</td>
<td>3</td>
<td>The Modern Short Story</td>
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<td>The development of the short story as a modern literary genre.</td>
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<td>ENGLISH 3820</td>
<td>3</td>
<td>Modern Poetry</td>
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<td>A study of poetry written since World War I, including such poets as Pound, Eliot, Lorca, Yeats, Rilke, Williams, Frost and Thomas.</td>
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<td>Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
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<td>ENGLISH 3830</td>
<td>3</td>
<td>The World Novel</td>
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<td>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. (Every other Spring)</td>
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<td>GE: Humanities, International Education</td>
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<td>Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
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<td>ENGLISH 3850</td>
<td>3</td>
<td>Contemporary Global Literature and Empire</td>
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<td>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). (Every 2 yrs)</td>
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<td>Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
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<td>ENGLISH 3890</td>
<td>3</td>
<td>Film and Literature</td>
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<td>Film adaptations of representative fictional texts, such as historical romances, gothic novels, short stories, and 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.</td>
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<td>GE: Humanities</td>
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<td>Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
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<tr>
<td>ENGLISH 3910</td>
<td>3 credits</td>
<td>Classical Mythology</td>
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<td>ENGLISH 3930</td>
<td>3 credits</td>
<td>Literature for Young Adults</td>
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<tr>
<td>ENGLISH 3940</td>
<td>3 credits</td>
<td>Grammar in Context</td>
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<tr>
<td>ENGLISH 3990</td>
<td>3 credits</td>
<td>Topics in Language, Literature, or Writing</td>
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<tr>
<td>ENGLISH 4020</td>
<td>3 credits</td>
<td>History and Theory of Rhetoric</td>
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<td>ENGLISH 4030</td>
<td>3 credits</td>
<td>Major English Writers</td>
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<tr>
<td>ENGLISH 4080</td>
<td>3 credits</td>
<td>Medieval Lyric Poetry</td>
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<tr>
<td>ENGLISH 4120</td>
<td>3 credits</td>
<td>Advanced Manuscript Workshop</td>
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<tr>
<td>ENGLISH 4300</td>
<td>3 credits</td>
<td>English Renaissance Poetry and Prose</td>
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<tr>
<td>ENGLISH 4330</td>
<td>3 credits</td>
<td>Shakespeare</td>
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</table>
ENGLISH 4430  3 credits
Major American Writers
An intensive study of selected major American writers.
Component: Class
GE: Humanities
Prereq/Coreq: 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.
Component: Class
Cross Offering: WOMGENDR 4500
GE: Gender Studies, Humanities, International Education
Prereq/Coreq: P: ENGLISH 1130 and ENGLISH 1230

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.
Component: Class
Prereq/Coreq: 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.
Component: Class
Cross Offering: TEACHING 4670
Prereq/Coreq: 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.
Component: Field Studies
Prereq/Coreq: 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.
Component: Class
Prereq/Coreq: P: ENGLISH 1130 and ENGLISH 1230

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.
Component: Class
Cross Offering: TEACHING 4750
Prereq/Coreq: 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 Communications Technology 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. (every third semester)
Component: Discussion, Class
Prereq/Coreq: P: ENGLISH 1130 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.
Component: Independent Study
Prereq/Coreq: 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 COURSES

ENGRPHYS 3240  4 credits
Applied Mechanics
Newtonian mechanics of particles and rigid bodies, including oscillations and central force motion, with applications to mechanical design. Introduction to Lagrangian and Hamiltonian methods. (Fall)
Component: Class
Prereq/Coreq: P: PHYSICS 2640 or PHYSICS 2340, GENENG 2130; C: MATH 3630

235
ENGRPHYS 3640  4 credits
Electric and Magnetic Fields
Electrostatics, magnetostatics, Maxwell's equations, plane waves, and transmission lines. (Fall, Spring)
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. (Fall, Spring)
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. (Summer)
Components: Field Studies
Prereqs/Coreqs: P: junior standing

ENGRPHYS 4010  2 credits
Engineering Physics Lab
Experiments in physics, introduction to experimental techniques, systems engineering, and methods of experiment design. (Fall)
Components: Laboratory
Prereqs/Coreqs: P: PHYSICS 3140 with a “C-” or better

ENGRPHYS 4140  4 credits
Applied Optics
Geometric and physical optics applied to the design of optical systems: polarization, dispersion, interference and diffraction, absorption, optical fibers, and lasers. (Spring)
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: PHYSICS 3140

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. (Fall)
Components: Laboratory
Prereqs/Coreqs: P: PHYSICS 3140 with a “C-” or better and ELECTENG 2210 and COMPUTER 1430; C: ENGRPHYS

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. (Fall)
Components: Class
Prereqs/Coreqs: P: PHYSICS 3140 with a “C-” or better; C: MATH 3630

ENGRPHYS 4230  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

ENTREPRENEURSHIP COURSES

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 2010 3 credits
Social Context of Creativity, Innovation and Entrepreneurship
Students will develop a capacity and ability to appreciate and comprehend the role and context of creativity, innovation and entrepreneurship in society and culture. Students will learn and apply the art and science of creativity and innovation, including sources of creativity, tools and processes for increasing the individual and a team's ability to think creatively and be innovative in ways that address the social realities and moral challenges of our time.

Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: 15 completed credits

ENTRP 2030 3 credits
Accounting & 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 & 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 2010 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

ETHNIC STUDIES COURSES

ETHNSTDY 1030 3 credits
Race, Gender, and Class
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 and Gender

ETHNSTDY 2130 3 credits
The Native American Experience
"The Native American Experience" is an examination of the indigenous peoples of North America with particular emphasis on the area now call the United States.

Components: Class
GE: Ethnic Studies, Humanities

ETHNSTDY 2200 3 credits
Introduction to Ethnic Studies
An examination of the concepts, issues and experiences 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.

Components: Class
GE: Ethnic Studies
ETHNSTDY 2230  3 credits
Black Experience in the U. S.
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. We will also focus on various accounts of the nature of racial ideology, and the construction of racial identities.
Components: Class
GE: Ethnic Studies

ETHNSTDY 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: ART 2730
GE: Ethnic Studies, Fine Arts

ETHNSTDY 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 cultural contact and conflict, continuing through work created by contemporary tribal artists informed by those traditions.
Components: Class
Cross Offering: ART 2750
GE: Ethnic Studies, Fine Arts

ETHNSTDY 2830  3 credits
Ethnicity, Race and Crime
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.
Components: Class
Cross Offering: CRIMLJUS 2830
GE: Ethnic Studies
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 2930  3 credits
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. (Fall, Spring)
Components: Class
Cross Offering: ENGLISH 2930, WOMGENDR 2930
GE: Ethnic and Gender, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 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, POLISCI 2940
GE: Ethnic and Gender, Social Sciences

ETHNSTDY 3010  3 credits
Race, Gender, and United States Labor History
Social, cultural, and economic history of American working people from the colonial period to the present.
Components: Class
Cross Offering: HISTORY 3010
GE: Ethnic Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor

ETHNSTDY 3230  3 credits
Human Relations
Social stratification based upon race, 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: SOCIOLGY 3230
GE: Ethnic and Gender, Social Sciences
Prereqs/Coreqs: P: SOCIOLGY 1030

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  
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, WOMGENDR 3340  
GE: Ethnic and Gender  
Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500 or junior standing

ETHNSTDY 3410  
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, and in particular, the involvement of the writers in the social and political conflicts affecting the Chicano community. (Every other Spring)

Components: Class  
Cross Offering: ENGLISH 3410  
GE: Ethnic Studies, Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3630  
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 and Gender

ETHNSTDY 3720  
Ethnic Rights and Politics
Changing patterns of ethnic, gender and race relations; legislative and judicial developments affecting civil rights; political movements, political, social and economic discrimination; judicial system and legal protection for civil rights. 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  
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. (Spring)

Components: Class  
Cross Offering: ENGLISH 3730  
GE: Ethnic Studies, Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3740  
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. (Fall)

Components: Class  
Cross Offering: ENGLISH 3740  
GE: Ethnic Studies, Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3750  
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. (Fall)

Components: Class  
Cross Offering: ENGLISH 3750  
GE: Ethnic Studies, Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3760  
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. (Fall)

Components: Class  
Cross Offering: ENGLISH 3760  
GE: Ethnic Studies, Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ETHNSTDY 3830  
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 and Gender  
Prereqs/Coreqs: sophomore standing to enroll in this class

FORENSIC COURSES

FORENSIC 1320  
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. (Spring, Fall)

Components: Class

FORENSIC 2320  
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 fingerprint and fingerprint comparison using automated fingerprint identification systems. Students learn to examine and classify latent prints using the Henry alpha-numeric classification system. (Spring, Fall)

Components: Class  
Prereqs/Coreqs: P: FORENSIC 1320

FORENSIC 2420  
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). (Spring)

Components: Class  
Prereqs/Coreqs: P: FORENSIC 1320

FORENSIC 2620  
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. (Spring, Fall)

Components: Class  
Prereqs/Coreqs: P: FORENSIC 1320

FORENSIC 3040  
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. (Fall, Spring)

Components: Laboratory, Class  
Prereqs/Coreqs: P: FORENSIC 1320 and FORENSIC 2420 and FORENSIC 2620

FORENSIC 3140  
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. (Fall)

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  
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 as 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. (Spring)

Components: Discussion, Class  
Prereqs/Coreqs: P: forensic investigation major or minor or criminal justice major or minor, 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

FRENCH COURSES

FRENCH 1040  4 credits
Elementary French
Conversation, grammar, reading, writing; emphasis on oral practice, structure, vocabulary; language lab.
  Components: Laboratory, Class

FRENCH 1140  4 credits
Elementary French
Continuation of French 1040; language lab.
  Components: Laboratory, Class
  GE: Humanities
  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
GE: Humanities
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
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. (Fall, Spring)

Components: Class
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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall, Spring, Summer)  
**Components:** Class  
**Prereqs/Coreqs:** P or C: GENENG 1030 and MATH 2740

**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. (Fall, Spring, Summer)  
**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. (Fall, Spring, Summer)  
**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. (Fall, Spring)  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: GENENG 2130 with a grade of "C-" or better

**GENENG 2630** 3 credits  
**Basic Thermoscience for Engineers**  
Thermodynamic properties; first and second laws of thermodynamics; ideal gas equation of state; steam properties; properties of incompressible substances; refrigerants; cannot cycle; rankine cycle; otto and diesel cycles; refrigeration; conduction and convection heat transfer. Not open to Mechanical Engineering majors. (Fall, Spring, Summer)  
**Components:** Class  
**Prereqs/Coreqs:** P: MATH 2840 and PHYSICS 2530 or PHYSICS 2240

**GENENG 2820** 2 credits  
**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. (Fall, Spring, Summer)  
**Components:** Class  
**Prereqs/Coreqs:** P: GENENG 1030 and sophomore standing

**GENENG 2930** 3 credits  
**Applications of Electrical Engineering**  
Electric circuit analysis techniques; transients; AC analysis; power in AC circuits; transformers; and introduction to three-phase circuits. (Fall, Spring, Summer)  
**Components:** Laboratory, Class  
**Prereqs/Coreqs:** P: PHYSICS 2640 or PHYSICS 2340; not open to Electrical Engineering majors

**GENENG 3000** 1 - 3 credits  
**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. (Fall, Spring, Summer)  
**Components:** Research  
**Prereqs/Coreqs:** C: MATH 2740

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**GEOGRAPHY COURSES**

**GEOGRPHY 1040** 4 credits  
**Planet Earth**  
The features of the natural environment (lithosphere, atmosphere and hydrosphere); 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 UW-Platteville 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
GE: International Education, Natural Science
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
GE: Social Sciences
Prereqs/Coreqs: P: GEOGRPHY 1040 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, Social Sciences
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  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.

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
GE: Natural Science
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 3350  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. Stereopair 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

GEOGRPHY 3530  2 - 3 credits
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 credits
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 credits
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 credits
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 credits
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 credits
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 credits
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 and consent of instructor; consent of instructor for those without a previous geography course will be given only infrequently and only for students with exceptional aptitude and geographic promise

GEOGRPHY 3930 3 credits
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 credits
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.* (summer)

Components: Field Studies
GE: International Education
Prereqs/Coreqs: P: consent of instructor

GEOGRPHY 4030 3 credits
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 credits
Topical Seminar
A specific geographic topic within a seminar format.

Components: Laboratory, Seminar
Prereqs/Coreqs: P: junior standing

GEOGRPHY 4150 3 credits
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, Social Sciences
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
GE: Social Sciences

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

GEOLOGY COURSES

GEOLOGY 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

GEOLOGY 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

GEOLOGY 2330  3 credits
History of Life
The history of life as revealed by the fossil record. Current views on evolutionary patterns and extinctions. Field trips, laboratory; morphology of major fossil groups, modes of preservation, techniques.

Components: Laboratory, Class
GE: Natural Science

GEOLOGY 3030  3 credits
Oceanography
Chemical and physical nature of sea water and its movements, the ocean floor and its sediments, submarine volcanology, and marine biology.

Components: Class

GEOLOGY 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

GEOLOGY 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
GEOLOGY 3230 3 credits
Sedimentary Geology
The formation, identification, and significance of sedimentary rocks with emphasis on those found in the Midwest; stratigraphy and earth history. Research paper and presentation required. Field trips.
Components: Laboratory, Class
Prereqs/Coreqs: P: GEOLOGY 1140 or GEOLOGY 3130; GEOLOGY 3040 is recommended

GEOLOGY 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

GEOLOGY 3520 2 credits
Air Photo Interpretation
Use of air photos in geographical research and in other social and physical sciences; emphasis on identification of natural and cultural features.
Components: Laboratory, Class

GEOLOGY 3830 3 credits
Field Methods and Mapping
Field techniques for bedrock and surficial studies. Local field trips. Research paper and presentation, and final map project required.
Components: Laboratory, Class
Prereqs/Coreqs: P: (GEOLOGY 1140 or GEOLOGY 1240 or GEOLOGY 3130) and (GEOLOGY 3040 or GEOLOGY 3230)

GEOLOGY 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 4120 2 - 3 credits
Topical Seminar
A particular geologic topic within a seminar format.
Components: Laboratory, Seminar

GEOLOGY 4340 4 credits
Regional Geomorphology of the United States
The structure, origin and distribution of the landforms of the United States; secondary emphasis on the methods of land form analysis.
Components: Class

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 COURSES

GERMAN 1240  4 credits
Elementary German
Conversation, grammar, reading and writing; emphasis upon oral practice in the language laboratory.
Components: Laboratory, Class

GERMAN 1340  4 credits
Elementary German
Continuation of German 1240; language lab.
Components: Laboratory, Class
GE: Humanities-2nd course only
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
Prereqs/Coreqs: P: GERMAN 1240 or equivalent

GERMAN 2340  4 credits
Intermediate German
Continuation of German 2240; language lab.
Components: Laboratory, Class
GE: Humanities
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  
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 novelle of German as well as Austrian and Swiss authors. Lectures and discussions in German.  
Components: Class  
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

**GERMAN 4220  2 credits**  
**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

**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

**HISTORY COURSES**

**HISTORY 1010  3 credits**  
**World Civilization I**  
The history of human civilization to 1715, with emphasis upon the interaction among the peoples of Africa, Asia and the Middle East and Europe.  
Components: Discussion, Class  
GE: Historical Perspective

**HISTORY 1020  3 credits**  
**World Civilization II**  
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.  
Components: Discussion, Class  
GE: Historical Perspective

**HISTORY 1330  3 credits**  
**History of the United States to 1877**  
A general survey of American history based on major social, political and economic developments from colonial times through the Civil War and Reconstruction.  
Components: Discussion, Class  
GE: Historical Perspective

**HISTORY 1430  3 credits**  
**History of the United States since 1877**  
Continuation of a general survey of American history based on major social, political and economic developments from the Reconstruction to the present.  
Components: Discussion, Class  
GE: Historical Perspective

**HISTORY 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  
GE: Humanities or Historical Perspective, International Education  
Prereqs/Coreqs: P: ENGLISH 1230

**HISTORY 3010  3 credits**  
**Race, Gender, and United States Labor History**  
Social, cultural, and economic history of American working people from the colonial period to the present.  
Components: Class  
Cross Offering: ETHNSTDY 3010  
GE: Ethnic Studies, Historical Perspective  
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor
<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>HISTORY 3080</td>
<td>3</td>
<td>American Military History</td>
<td>A survey of American military history with emphasis on the development of military policy and civil-military relations.</td>
<td>Class GE: Historical Perspective</td>
<td>P: HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 1010</td>
<td>3</td>
<td>American Colonial History</td>
<td>The American Colonies, British policies and the Revolution.</td>
<td>Class GE: Historical Perspective</td>
<td>Prereqs/Coreqs: P: HISTORY 1330 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3130</td>
<td>3</td>
<td>New Nation</td>
<td>Major trends and developments in the new American nation: framing the constitution, establishment of a new government, development and expansion, the Jacksonian era 1783-1848.</td>
<td>Class GE: Historical Perspective</td>
<td>Prereqs/Coreqs: P: HISTORY 1330 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3140</td>
<td>3</td>
<td>The Civil War and Reconstruction</td>
<td>The origins, manifestations and results of sectional controversy in the U.S. in the mid-19th century.</td>
<td>Class GE: Historical Perspective</td>
<td>Prereqs/Coreqs: P: HISTORY 1330 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3150</td>
<td>3</td>
<td>Gilded Age and Progressive Era</td>
<td>The transformation of the United States from an agrarian nation to an urban, industrial society 1877-1917.</td>
<td>Class GE: Historical Perspective</td>
<td>Prereqs/Coreqs: P: HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3160</td>
<td>3</td>
<td>US Legal History of Race and Gender</td>
<td>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.</td>
<td>Class GE: Historical Perspective</td>
<td>Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3230</td>
<td>3</td>
<td>The West in American History</td>
<td>The frontier and the American west from 1763-1920.</td>
<td>Class GE: Historical Perspective</td>
<td>P: HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3240</td>
<td>3</td>
<td>African-American History 1619 to Present</td>
<td>The historical experience of African-Americans since 1619.</td>
<td>Class Cross Offering: ETHNSTDY 3240 GE: Ethnic Studies, Historical Perspective</td>
<td>P: HISTORY 1330 or HISTORY 1430 or consent of instructor or department chair</td>
</tr>
<tr>
<td>HISTORY 3320</td>
<td>3</td>
<td>History of Wisconsin</td>
<td>Development of the state of Wisconsin from colonial times to the present.</td>
<td>Class GE: Historical Perspective-2nd course only</td>
<td>Prereqs/Coreqs: P: HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3400</td>
<td>3</td>
<td>The Vietnam War</td>
<td>A survey of the 30-year duration (1945-1975) of US intervention in Southeast Asia, which led to the Vietnam War. Emphasis is placed on the domestic and geopolitical sources of Vietnam’s struggle for independence, US anticommunist policies, US military strategy, and opposition to the war.</td>
<td>Class GE: Historical Perspective</td>
<td>Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3410</td>
<td>3</td>
<td>The United States, 1898-1945</td>
<td>A detailed historical examination of the United States from the turn of the 20th 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.</td>
<td>Class GE: Historical Perspective</td>
<td>Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3430</td>
<td>3</td>
<td>Twentieth Century America</td>
<td>Social, political, economic and diplomatic developments in the United States during the twentieth century.</td>
<td>Class GE: Historical Perspective</td>
<td>Prereqs/Coreqs: P: HISTORY 1430 or consent of instructor</td>
</tr>
</tbody>
</table>
HISTORY 3450  3 credits  
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  3 credits  
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  3 credits  
The United States since 1945  
A detailed examination of the U S 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  3 credits  
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  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: POLISCI 3610  
GE: Historical Perspective  
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor  

HISTORY 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: POLISCI 3620  
GE: Historical Perspective  
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor  

HISTORY 3640  3 credits  
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  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: WOMGENDR 3650  
GE: Gender Studies, Historical Perspective  
Prereqs/Coreqs: P: HISTORY 1020 or HISTORY 1430 or consent of instructor  

HISTORY 3660  3 credits  
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  3 credits  
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  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: WOMGENDR 3700
GE: Gender Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor

HISTORY 3710  3 credits
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  3 credits
Medieval Europe
Rise of national monarchies, the rise of the Christian 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  3 credits
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  3 credits
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  3 credits
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  3 credits
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 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 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 3930  3 credits**
East Asia
An analysis of East Asian civilizations from their origins to the present and their relations with the rest of the world.
Components: Class
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1010 or 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 nineteenth 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

**HISTORY 4720  1 - 3 credits**
Individual Research in History
Particularly useful for history majors who intend to do graduate work.
Components: Independent Study

**HISTORY 4900  3 credits**
Historiography and Research Methods
This is a capstone course for history majors that will examine the nature of the modern historical profession and historiographical trends, beginning with the emergence of history as a professional discipline in the 19th century, and tracing from there the subsequent development of major schools of historical thought and method. Additionally, the course will provide students with extensive training in proper methods of historical research and citation, culminating with the completion of a major research paper. (Fall)
Components: Class

**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. (Fall)
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. (Spring)
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 en-
vironment, and design for the handicapped. Application of
bio-mechanical and energy consumption models, the human
factors design guide, and MQPro software for virtual ergo-
nomics analyses and evaluations. Current standards and
OSHA guidelines. At least 8 laboratory projects will enhance
the application of human factors principles to real world prob-
lems. Safety aspects of human factors engineering will be
discussed. (Fall)
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 optimi-
zation, queuing theory; Markov processes; dynamic program-
ing. (Fall)
Components: Class
Prereqs/Coreqs: P: MATH 4030

INDSTENG 3630  3 credits
Work Measurement and Design
Principles and techniques of work design, operation analy-
sis and job design. Work methods and analysis; predeter-
mined 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. (Spring)
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 pre-
sented 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 assess-
ment concepts are introduced. Emphasis on communication
between the engineer and personnel at all levels with an
organization. (Spring even years)
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 Col-
lege 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. (Fall, Spring)
Components: Field Studies
Prereqs/Coreqs: P: junior standing

INDSTENG 3970  1 credit
Industrial Engineering Internship
Work experience in industry under the direction of the Col-
lege 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 experi-
ence. Internship is designed to provide experiential learning
experience to the student during the summer period. Credits
do not fulfill graduation requirements. (Summer)
Components: Field Studies
Prereqs/Coreqs: P: junior standing

INDSTENG 4030  3 credits
Production and Operations Analysis
Analysis and design of production control procedures includ-
ing inventory and scheduling. Operations management tech-
niques including forecasting and aggregate planning. Project
planning using CPM/PERT. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDSTENG 3130 and
INDSTENG 3530

INDSTENG 4130  3 credits
System Simulation and Analysis
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. (Fall even years)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDSTENG 2130 and
INDSTENG 3530

INDSTENG 4230  3 credits
Facilities Design
Design principles and analytical procedures for facility loca-
tion, development of an overall functional relationship 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 man-
ufacturing 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. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: C: INDSTENG 3630
INDSTENG 4330  3 credits
Material Handling and Warehousing
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. (Fall odd years)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDSTENG 3530 and GENENG 2820

INDSTENG 4430  3 credits
Quality Engineering
Components: Laboratory, Class
Prereqs/Coreqs: P: MATH 4030

INDSTENG 4540  3 credits
Human Performance and System Design
Design of the interface between human and elements of a complex system. Concentration on perception and cognitive aspects of work including sensory perception, learning, and judgment. Characteristics of complex systems and necessary support for human operators. Error minimization. Application of human-system performance considerations in product design. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: junior standing or consent of instructor

INDSTENG 4630  3 credits
Manufacturing Systems Design
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. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: MECHNCHL 3040; C: INDSTENG 3130 and MECHNCHL 3230

INDSTENG 4730  3 credits
Engineering Management
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. (Spring)
Components: Class
Prereqs/Coreqs: junior standing

INDSTENG 4750  3 credits
Principles and Applications of Project Management
Systems perspective of scope definition, and management of scope, time human resources, communications, and risk, as it applies to industrial engineering projects. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDSTENG 4730

INDSTENG 4830  3 credits
Engineering Continuous Improvement
Introduction to value engineering and lean techniques. Applications of engineering valuation. Basic principles of function analysis. Discussion of lean tools including value stream mapping. (Spring)
Components: Class
Prereqs/Coreqs: junior standing

INDSTENG 4930  3 credits
Industrial Systems Design
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. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDSTENG 4730

INDSTENG 4980  1 - 3 credits
Current Topics in Engineering
In-depth study of a current topic of interest to the engineering profession. The topic will be identified in the course title.
Components: Class
Prereqs/Coreqs: P: senior standing

INDSTENG 4990  1 - 3 credits
Independent Study
Advanced study in the area of specialization.
Components: Independent Study
Prereqs/Coreqs: P: senior standing

INDUSTRIAL STUDIES COURSES

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. (Fall, Spring)
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. (Fall, Spring)
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. Spring and Fall
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. (Fall, Spring)
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. (Fall, Spring)
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P or C: INDUSTDY 1030 or AGIN 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. (Fall, Spring)
Components: Laboratory, Class

INDUSTDY 1830 3 credits
Synthetic and Composite Materials
An introductory course to industrial materials including plastics, metallics, and 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. (Fall, Spring)
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. (Spring)
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1260
Prereqs/Coreqs: P: INDUSTDY 2430 and COMPUTER 1830 or CIVILENG 2120 and Math placement level 30 or MATH
INDUSTDY 2710  3 credits
Principles of Safety
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. (Fall, Spring)
Components: Class

INDUSTDY 2910  3 credits
Plastics Technology
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. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1830

INDUSTDY 3140  4 credits
General Construction Estimating
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 2430 and COMPUTER 1830 or CIVILENG 2120

INDUSTDY 3150  3 credits
Polymeric and Ceramic Materials
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. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1830

INDUSTDY 3160  3 credits
Machining and CNC Programming
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. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430

INDUSTDY 3180  3 credits
Construction Safety Management
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. (Fall, Spring)
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 3210  3 credits
Construction Laboratory
Laboratory and field experience in basic carpentry and masonry principles, concrete forming, brick and block laying, estimating, scheduling and related areas. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1130 and INDUSTDY 2430

INDUSTDY 3220  3 credits
Construction Procedures
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 2430 and MATH 1830 and COMPUTER 1830 or CIVILENG 2120

INDUSTDY 3230  3 credits
Digital Electronics
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. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1200

INDUSTDY 3310  3 credits
Metallurgy and Joining Processes
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. (Spring)
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. (Fall, Spring)
Components: Laboratory, Class
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. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430

INDUSTDY 3550 3 credits
Fluid Power and Servo Systems
The study of fluid power theory and their applications to industrial processes. The course includes the examination of fluids, pumps, compressors, conditioners, control devices, actuators, symbols, and circuitry. Other course areas include an introduction to electrical, electronics, and fluid servo systems. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1530

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. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1200 and INDUSTDY 1530

INDUSTDY 3590 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. (Spring)
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. (Every third semester)
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. (Every other spring)
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. (Fall, Spring)
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. (Spring)
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. (Fall)
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  1 - 3 credits
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. (Fall, Spring)
Components: Class
Prereqs/Coreqs: P: consent of instructor or department chair

INDUSTDY 4030  3 credits
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. (Every other Spring)
Components: Class
Prereqs/Coreqs: P: INDUSTDY 1200

INDUSTDY 4040  3 credits
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. (Fall)
Components: Class
Prereqs/Coreqs: P: INDUSTDY 2710

INDUSTDY 4130  3 credits
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. (Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1430 and INDUSTDY 1830

INDUSTDY 4160  3 credits
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. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1430 and INDUSTDY 1310 and INDUSTDY 3460

INDUSTDY 4360  3 credits
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1230 and INDUSTDY 3460

INDUSTDY 4480  3 credits
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1530

INDUSTDY 4490  3 credits
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. (Fall)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430 and INDUSTDY 3310 and INDUSTDY 3480

INDUSTDY 4530  3 credits
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: INDUSTDY 2430
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Prereqs/Coreqs</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY 4630</td>
<td>3</td>
<td>Building Systems Analysis</td>
<td>The major building systems which include electrical systems, climate controlling systems, lighting systems, and water supply and drainage systems are studied. (Fall, Spring)</td>
<td>P: INDUSTDY 2430 and INDUSTDY 2540 and COMPUTER 1830 or CIVILENG 2120</td>
<td>Laboratory, Class</td>
</tr>
<tr>
<td>INDUSTDY 4640</td>
<td>3</td>
<td>Curriculum and Facility Planning</td>
<td>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. (Fall, Spring)</td>
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<td>Class</td>
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<tr>
<td>INDUSTDY 4640</td>
<td>3</td>
<td>Curriculum and Facility Planning</td>
<td>Components: Class</td>
<td></td>
<td>Laboratory, Class</td>
</tr>
<tr>
<td>INDUSTDY 4672</td>
<td>3</td>
<td>Seminar in Safety</td>
<td>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. (Every third semester)</td>
<td>P: TEACHING 1230</td>
<td>Class</td>
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<tr>
<td>INDUSTDY 4750</td>
<td>3</td>
<td>Disaster Preparedness</td>
<td>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. (Every third semester)</td>
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<td>Class</td>
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<tr>
<td>INDUSTDY 4770</td>
<td>3</td>
<td>Loss Control Safety Management</td>
<td>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. (Spring)</td>
<td></td>
<td>Class</td>
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<tr>
<td>INDUSTDY 4780</td>
<td>3</td>
<td>Ergonomics in the Workplace</td>
<td>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. (Spring)</td>
<td></td>
<td>Class</td>
</tr>
<tr>
<td>INDUSTDY 4790</td>
<td>3</td>
<td>Safety Management Components</td>
<td>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. (Fall)</td>
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<td>Class</td>
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<tr>
<td>INDUSTDY 4810</td>
<td>3</td>
<td>Fire Protection</td>
<td>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. (Fall)</td>
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<td>Class</td>
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<tr>
<td>INDUSTDY 4820</td>
<td>2</td>
<td>Principles of Vocational-Technical Education</td>
<td>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. (Spring)</td>
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<td>Class</td>
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<tr>
<td>INDUSTDY 4840</td>
<td>3</td>
<td>Construction Administration</td>
<td>Construction company organization; contract documents; legal, ethical, business, and management procedures; and principles of construction management. (Fall, Spring)</td>
<td></td>
<td>Class</td>
</tr>
</tbody>
</table>
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. (Fall)
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 and 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. (Spring)
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 Six Sigma 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. (Fall, Spring)
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. (Fall, Spring)
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 strategy, quality of work life, global competition, lean manufacturing, forecasting methods, supply chain management practices, scheduling and plant facilities layout are stressed. (Fall, Spring)
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. (Fall, Spring)
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. (Fall, Spring)
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. (Fall, Spring)
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. (Fall, Spring, Summer)
Components: Field Studies
Prereqs/Coreqs: P: INDUSTDY 2710 and 12 additional credits in industrial studies and other requirements per the Industrial Studies Internship Handbook

MATHEMATICS COURSES

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.) (Fall, Spring, Summer)
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.) (Fall, Spring, Summer)
Components: Class
Prereqs/Coreqs: P: MATH 10 with a “C-” or better or mathematics proficiency level of 10 or above

MATH 1030  3 credits
Mathematics for Educators I
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. (Fall, Spring)
Components: Class
Prereqs/Coreqs: P: MATH 15 with a grade of “C-” or better or mathematics proficiency level of 15 or above

MATH 1530  3 credits
College Algebra
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. (Fall, Spring, Summer)
Components: Class
Prereqs/Coreqs: 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)

MATH 1630  3 credits
Finite Mathematics with Applications
Coordinate systems and graphs, matrices, linear systems, linear programming (geometric approach), set theory, counting techniques, probability, Markov chains.
Components: Class
GE: Math
Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above

MATH 1730  3 credits
Mathematics of Finance
Simple and compound interest, annuities, amortization, depreciation, valuation of securities, and bonds. (Fall, Spring, Summer)
Components: Class
GE: Math
Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above

MATH 1830  3 credits
Elementary Statistics
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. (Fall, Spring, Summer)
Components: Class
GE: Math
Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above
MATH 1930  3 credits
Mathematical Explorations
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. (Fall and Spring)

Components: Class
GE: Math
Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above

MATH 2030  3 credits
Mathematics for Educators II
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. (Fall, Spring)

Components: Class
GE: Math (Elem/Mdl Educ Only)
Prereqs/Coreqs: P: MATH 1030 with a grade of "C-" or better. (Open only to Elementary Education majors)

MATH 2450  5 credits
Precalculus
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. (Fall, Spring, Summer)

Components: Class
GE: Math
Prereqs/Coreqs: P: MATH 15 with a grade of "B" or better or mathematics proficiency level of 20 or above

MATH 2530  3 credits
Trigonometry and Analytic Geometry
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. (Fall, Spring, Summer)

Components: Class
GE: Math
Prereqs/Coreqs: P: MATH 1530 with a grade of "C-" or better or mathematics proficiency level of 30 or above

MATH 2630  3 credits
Calculus with Applications
Functions, limits, rates of change, exponential and logarithmic functions, differentiation, integration; with applications in the fields of business and economics. (Spring)

Components: Class
GE: Math
Prereqs/Coreqs: P: MATH 1530 with a grade of "C-" or better or mathematics proficiency level of 30 or above

MATH 2640  4 credits
Calculus and Analytic Geometry I
Limits and continuity, differentiation, differentials, antiderivatives, the definite integral and applications. (Fall, Spring, Summer)

Components: Class
GE: Math
Prereqs/Coreqs: P: MATH 2450 or MATH 2530 with a grade of "C-" or better, or mathematics proficiency level of 40

MATH 2730  3 credits
Discrete Mathematics
Logic, sets, combinations, relations, networks and algebraic structures. (Fall, Spring)

Components: Class
Prereqs/Coreqs: P: MATH 2640 with a grade of "C-" or better

MATH 2740  4 credits
Calculus and Analytic Geometry II
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. (Fall, Spring, Summer)

Components: Class
Prereqs/Coreqs: P: MATH 2640 with a grade of "C-" or better or advanced placement
MATH 2840  4 credits
Calculus and Analytic Geometry III
Analytic geometry of three dimensions, vector analysis, partial differentiation, multiple integrals, and line integrals. (Fall, Spring, Summer)

Components: Class
Prereqs/Coreqs: P: MATH 2740 with a grade of “C-” or better or advanced placement

MATH 3020  3 credits
Teaching of Mathematics in the Middle and Secondary School
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. (Fall)

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  3 credits
Mathematics for Educators III
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. (Fall, Spring)

Components: Class
Prereqs/Coreqs: P: MATH 2030 with a grade of “C-” or better. (Open only to elementary education majors)

MATH 3040  4 credits
Mathematics Seminar for Middle School Teachers
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. (Spring)

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  3 credits
College Geometry
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. (Spring)

Components: Class
Prereqs/Coreqs: P: MATH 2730 or MATH 3230 with a grade of C- or better

MATH 3230  3 credits
Linear Algebra
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. (Fall, Spring)

Components: Class
Prereqs/Coreqs: P: MATH 2740 with a grade of “C-” or better

MATH 3330  3 credits
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. (Fall, Spring)

Components: Class
Prereqs/Coreqs: P: MATH 3230 with a grade of “C-” or better
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
<th>Prerequisites/Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3630</td>
<td>3</td>
<td>Differential Equations I</td>
<td>Solutions of first order differential equations, linear homogeneous and nonhomogeneous differential equations, Laplace transforms, linear systems and applications. (Fall, Spring, Summer)</td>
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<tr>
<td></td>
<td></td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: MATH 2840 with a grade of &quot;C-&quot; or better</td>
</tr>
<tr>
<td>MATH 3730</td>
<td>3</td>
<td>Numerical Analysis</td>
<td>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, numerical calculus, and numerical solutions of ordinary differential equations. Other topics may be added as time permits. (Spring odd years.)</td>
</tr>
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<td></td>
<td></td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: MATH 2840 and fluency in a programming language</td>
</tr>
<tr>
<td>MATH 3830</td>
<td>3</td>
<td>Differential Equations II</td>
<td>Linear systems of differential equations, nonlinear systems, series solutions of differential equations, partial differential equations, orthogonal sets, and Fourier series. (Spring)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: MATH 3630 with a grade of &quot;C-&quot; or better</td>
</tr>
<tr>
<td>MATH 3930</td>
<td>3</td>
<td>Statistical Methods with Applications</td>
<td>Introduction to probability, density and distribution functions, special discrete and continuous distributions, estimation, hypothesis testing, chi-square, correlation and regression. (Fall, Spring, Summer)</td>
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<tr>
<td></td>
<td></td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: MATH 2740 with a grade of &quot;C-&quot; or better</td>
</tr>
<tr>
<td>MATH 3940</td>
<td>3</td>
<td>Statistics and Probability</td>
<td>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. (Fall)</td>
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<td></td>
<td></td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: MATH 4030 with a grade of &quot;C-&quot; or better</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>3</td>
<td>History and Development of Mathematical Concepts</td>
<td>A study of the history and development of mathematics from the primitive origins of numbers to modern mathematics. (Fall odd years.)</td>
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<tr>
<td></td>
<td></td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: MATH 2840 with a grade of &quot;C-&quot; or better</td>
</tr>
<tr>
<td>MATH 4330</td>
<td>3</td>
<td>Theory of Numbers</td>
<td>Integers, divisibility, prime numbers, Euclidean algorithm, linear Diophantine equations, congruences, Wilson’s and Euler’s theorems, Fermat’s little theorem, and other selected topics. (Fall even years.)</td>
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<td></td>
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<td>Components: Class</td>
<td>Prereqs/Coreqs: P: MATH 2730 or MATH 3230 with a grade of C- or better</td>
</tr>
<tr>
<td>MATH 4340</td>
<td>3</td>
<td>Advanced Calculus</td>
<td>Study, through formal proof, of sequences, limits, continuity, differentiation, integration, infinite series, and uniform convergence. (Fall, Spring)</td>
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<td></td>
<td>Components: Class</td>
<td>Prereqs/Coreqs: P: MATH 2840 and either MATH 2730 or MATH 3230 with a grade of &quot;C&quot; or better</td>
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<tr>
<td>MATH 4350</td>
<td>3</td>
<td>Complex Variables</td>
<td>Complex numbers, complex functions, differentiation, elementary functions, integration, and infinite series. (Spring even years.)</td>
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<td>Components: Class</td>
<td>Prereqs/Coreqs: P: MATH 2840 with a grade of &quot;C-&quot; or better</td>
</tr>
<tr>
<td>MATH 4360</td>
<td>1 - 3</td>
<td>Topics in Modern Mathematics</td>
<td>Topics to be selected by the instructor.</td>
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<td>Components: Class</td>
<td>Prereqs/Coreqs: P: MATH 2840 with a grade of &quot;C-&quot; or better</td>
</tr>
<tr>
<td>MATH 4370</td>
<td>1 - 8</td>
<td>Cooperative Field Experience</td>
<td>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.</td>
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<td></td>
<td></td>
<td>Components: Field Studies</td>
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</tr>
<tr>
<td>MATH 4810</td>
<td>1</td>
<td>Senior Seminar</td>
<td>Development of library research techniques, organization and presentation of research findings beyond those formed in existing courses. (Fall, Spring)</td>
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<td>Components: Seminar</td>
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<td>Prereqs/Coreqs: P: 12 credits of mathematics selected from MATH 3100 and above</td>
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</tr>
<tr>
<td>MATH 4920</td>
<td>1 - 3</td>
<td>Independent Study in Mathematics</td>
<td>Components: Independent Study</td>
</tr>
</tbody>
</table>
MECHANICAL ENGINEERING COURSES

MECHENG 2630  3 credits
Thermodynamics
Basic concepts and definitions, properties of ideal gases and real substances. Conservation of mass. First law of thermodynamics and entropy. Vapor power cycles. (Fall, Spring, Summer)
Components: Class
Prereqs/Coreqs: P: CHEMSTRY 1450 or CHEMSTRY 1240 and MATH 2740

MECHENG 3030  3 credits
Dynamical Systems
Mathematical modeling and response analysis of various dynamic systems. Formulation of system governing equations by Newtonian and Lagrangian approaches. Laplace transforms and numerical techniques of solution. Transfer function and state-space approaches to modeling dynamic systems. Time and frequency response of dynamic systems. Computer solutions of system responses. (Fall, Spring)
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: CHEMSTRY 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. (Fall, Spring)
Components: Class
Prereqs/Coreqs: P: MECHNCHL 3040 and a grade of C- or better in GENENG 2340

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. (Fall, Spring)
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: C: MATH 3630 and student must be in a degree granting engineering program

MECHENG 3640  3 credits
Heat Transfer
One and two-dimensional steady state heat conduction, transient heat conduction, numerical methods in conduction transfer. Forced and free convection. Heat exchangers. Radiation heat exchange, shape factors and shielding. Introduction to mass transfer. (Fall, Spring)
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. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: MATH 4030; 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. (Fall, Spring)
   Components: Discussion, Laboratory, Class
   Prereqs/Coreqs: P: A grade of "C-" or better in GENENG 2230 or ENGRPHYS 3240 and GENENG 2030

MECHENG 3950  4 credits
Mechanical 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. (Fall, Spring)
   Components: Field Studies
   Prereqs/Coreqs: P: junior standing

MECHENG 3970  1 credit
Mechanical 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. (Summer)
   Components: Field Studies
   Prereqs/Coreqs: P: junior standing

MECHENG 4330  3 credits
Automatic Controls
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. (Fall, Spring)
   Components: Laboratory, Class
   Prereqs/Coreqs: P: MECHNCHL 3030 and GENENG 267

MECHENG 4430  3 credits
Advanced Materials
   Components: Laboratory, Class
   Prereqs/Coreqs: P: MECHNCHL 3040

MECHENG 4440  3 credits
Failure of Materials
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.
   Components: Laboratory, Class
   Prereqs/Coreqs: P: MECHNCHL 3040

MECHENG 4500  3 credits
Biomedical Engineering
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.
   Components: Discussion, Class
   Prereqs/Coreqs: P: senior standing in engineering or consent of instructor

MECHENG 4520  3 credits
Power Plant Design
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.
   Components: Discussion, Laboratory, Class
   Prereqs/Coreqs: P: MECHNCHL 2630

MECHENG 4550  3 credits
Heat Transfer Applications
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.
   Components: Discussion, Class
   Prereqs/Coreqs: P: MECHNCHL 3640

MECHENG 4560  3 credits
Computational Fluid Dynamics
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.
   Components: Laboratory, Class
   Prereqs/Coreqs: P: MECHNCHL 3430 and MECHNCHL 3300
<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>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>Prerequisites/Corequisites: 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>Prerequisites/Corequisites: P: MECHNCHL 3640</td>
</tr>
<tr>
<td>MECHENG 4640</td>
<td>3</td>
<td>Mechanical Design of Internal Combustion Engines</td>
<td>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.</td>
<td>Prerequisites/Corequisites: P: MECHNCHL 3640</td>
</tr>
<tr>
<td>MECHENG 4650</td>
<td>3</td>
<td>Environmental Control Design</td>
<td>Theory and design of heating, air conditioning and refrigeration units. Heating and cooling loads for air conditioning, heat pump, psychrometry.</td>
<td>Prerequisites/Corequisites: P: MECHNCHL 3640 and MECHNCHL 4730</td>
</tr>
<tr>
<td>MECHENG 4720</td>
<td>2</td>
<td>Thermal Systems Laboratory</td>
<td>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. (Fall, Spring)</td>
<td>Prerequisites/Corequisites: P: MECHNCHL 3300 and MECHNCHL 3720</td>
</tr>
<tr>
<td>MECHENG 4730</td>
<td>3</td>
<td>Thermo-Fluid Systems Design</td>
<td>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.</td>
<td>Prerequisites/Corequisites: P: MECHNCHL 3300 and MECHNCHL 3640</td>
</tr>
<tr>
<td>MECHENG 4740</td>
<td>3</td>
<td>Mechanical Systems Design</td>
<td>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.</td>
<td>Prerequisites/Corequisites: P: MECHNCHL 3330</td>
</tr>
<tr>
<td>MECHENG 4750</td>
<td>3</td>
<td>Computational Methods in Engineering</td>
<td>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.</td>
<td>Prerequisites/Corequisites: P: MATH 3630 and MECHNCHL 3430</td>
</tr>
<tr>
<td>MECHENG 4800</td>
<td>3</td>
<td>Finite Element Method</td>
<td>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.</td>
<td>Prerequisites/Corequisites: P: MATH 3630 and MECHNCHL 3430 and MECHNCHL 3330</td>
</tr>
</tbody>
</table>
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

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  3 credits
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. (Fall, Spring)
Components: Class
Prereqs/Coreqs: P: MECHNCHL 3230 and MECHNCHL 3330 and MECHNCHL 3830 and MECHNCHL 4730

MECHENG 4990  1 - 3 credits
Independent Study
Advanced study in the area of specialization.
Components: Independent Study
Prereqs/Coreqs: P: senior standing

MEDIA STUDIES COURSES

MEDIA 1030  1 credit
Media Technologies I (Image Manipulation)
An introduction to photo manipulation software, taught on the Macintosh platform. (Fall & Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: Communication Technologies or Media Studies major or a minor in Video and Audio Production, Photography, Web Development, Public Relations or Journalism or consent of instructor

MEDIA 1050  1 credit
Software: Illustrator Basic
An introductory course to image creation and manipulation software, taught on the Macintosh platform. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: Communication Technologies or Media Studies major or a minor in Video and Audio Production, Photography, Web Development, Public Relations or Journalism or consent of instructor

MEDIA 1100  1 credit
Software: Flash Basic
An introduction to software for Web pages, animation, and multimedia. (Fall, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: Communication Technologies or Media Studies major or a minor in Video and Audio Production, Photography, Web Development, Public Relations 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: COMMNCTN or MEDIA 1030

MEDIA 1130  1 credit
Media Technologies III (Web)
An introduction to the use of this Web page development software. (Fall & Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: Communication Technologies or Media Studies major or a minor in Video and Audio Production, Photography, Web Development, Public Relations or Journalism or consent of instructor
### Integrated Design Software
1 credit
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. (Fall, Spring)

**Components:** Laboratory, Class
**Prereqs/Coreqs:** P: COMMNCTN or MEDIA 1030 or COMMNCTN or MEDIA 1050 or COMMNCTN or MEDIA 1100 or COMMNCTN or MEDIA 1130 or COMMNCTN or MEDIA 1160

### Software: InDesign Basic
1 credit
This is an introduction to Adobe InDesign, page layout software, taught on the Macintosh. (Fall, Spring)

**Components:** Class
**Prereqs/Coreqs:** P: Communication Technologies or Media Studies major or a minor in Video and Audio Production, Photography, Web Development, Public Relations or Journalism or consent of instructor

### Visual Communication
3 credits
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 text and image throughout visual media. (Fall & Spring)

**Components:** Class

### Public Relations Principles
3 credits
The field of public relations is explored, stakeholder categories identified, and common techniques and strategies examined in this course. (Fall, Spring)

**Components:** Class

### Introduction to Mass Media
3 credits
Survey of mass communication theory and the role of mass media in society. Analysis of media evolution, structure, economics, effects, and control. (Fall, Spring)

**Components:** Class
**GE:** Social Sciences

### 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. (Spring of Even Years)

**Components:** Class

### Basic Photography
3 credits
An introduction to basic digital photography and techniques encompassing the operation of a digital single-lens reflex camera. 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. (Fall, Spring)

**Components:** Laboratory, Class
**Prereqs/Coreqs:** P: Communication Technologies or Media Studies major or a minor in Video and Audio Production, Web Development, Photography, Public Relations or Journalism or consent of instructor

### Basic Newswriting and Reporting
3 credits
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. (Fall, Spring)

**Components:** Laboratory, Class
**Prereqs/Coreqs:** P: ENGLISH 1230

### Writing for Electronic Media
3 credits
Techniques and script styles used in writing non-journalistic copy with an emphasis on persuasive messages for radio and television. (Fall)

**Components:** Class
**Prereqs/Coreqs:** P: MEDIA 1630

### Web Development: Basics
3 credits
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. Fall

**Components:** Laboratory, Class
**Prereqs/Coreqs:** P: Communication Technologies or Media Studies major or a minor in Video and Audio Production, Photography, Web Development, Public Relations or Journalism or consent of instructor

### Production Foundations
3 credits
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. (Spring)

**Components:** Laboratory, Class
**Prereqs/Coreqs:** P: COMMNCTN or MEDIA 1030 AND COMMNCTN or MEDIA 1070 AND COMMNCTN or 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. (Fall)

Components: Laboratory, Class
Prereqs/Coreqs: P: Communication Technologies or Media Studies major or a minor in Video and Audio Production, Photography, Web Development, Public Relations 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. (Fall, Spring, Summer)

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. (Spring)

Components: Laboratory, Class
Prereqs/Coreqs: P: COMMNCTN or MEDIA 1100 and COMMNCTN or 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) (Fall).

Components: Laboratory, Class
Prereqs/Coreqs: P: COMMNCTN or 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 COMMNCTN or 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. (Spring odd years)

Components: Class
Cross Offering: WOMGENDR 3200
GE: Gender Studies, Social Sciences
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and COMMNCTN 1630 or or 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. (Spring)

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. (Spring of Odd Years)

Components: Class
Prereqs/Coreqs: P: COMMNCTN or 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. (Spring)

Components: Laboratory, Class
Prereqs/Coreqs: P: COMMNCTN 1030 or MEDIA 1030 and COMMNCTN 1930 or 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: COMNCTN or 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. (Winterim)

Components: Class
Prereqs/Coreqs: P: COMMNCTN or 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: COMMNCTN or MEDIA 1030 and COMMNCTN or MEDIA 1070 and COMMNCTN or MEDIA 1130 and COMMNCTN or 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: Communication Technologies or Media Studies major or a minor in Video and Audio Production, Photography, Web Development, Public Relations or Journalism or consent of instructor

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: COMMNCTN or MEDIA 2030 or COMMNCTN or MEDIA 2050

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 of even years)

Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: ENGLISH 1230 and COMMNCTN or 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: 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: COMMNCTN or 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: COMMNCTN or 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. (Fall)

Components: Class
Prereqs/Coreqs: P: COMMNCTN or 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, Spring)
Components: Class
Prereqs/Coreqs: P: COMMNCTN 1630 or 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 Communication Technologies. Variable credit is dependent upon the number of anticipated work hours. This course may be taken only once, regardless of the number of credits. (Fall, Spring, Summer)
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: Communication Technologies 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: junior standing

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
GE: Social Sciences
Prereqs/Coreqs: MEDIA 1630 and Senior Standing

MEDIA 4500  3 credits
Photography III
Develop your critical and technical skills. This course places emphasis on craftsmanship, 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: COMMNCTN or 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, Spring, Summer)
Components: Independent Study
Prereqs/Coreqs: P: consent of department chair

MEDIA 4830  1 credit
Senior Seminar
A holistic view of the communication field. (Fall, Spring)
Components: Seminar
Prereqs/Coreqs: P: Communication Technologies or Media Studies major status and senior standing

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, 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 Communication Technologies and/ or Media credits; and have approval from advisor
MICROSYSTEMS AND NANO TECHNOLOGY

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 and 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: P: 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 and 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 4000  
1 - 3 credits
Research in Microsystems and Nanotechnology
An opportunity for qualified undergraduates to obtain first-hand, 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, Spring, Summer)

Components: Class
Prereqs/Coreqs: P: Junior standing, "C-" or better in English 1230 and MSNT 3940 or MSNT 4230

MSNT 4230
Design and Simulation of MEMS
3 credits
This course is structured to give the students the tools to design, digitally fabricate, and simulate reliable MEMS devices. It will include in-depth study of mechanics and microelectronics concepts and how to couple them to design functioning MEMS. Since MEMS are fabricated using brittle materials, then probabilistic design concepts are introduced. Students will understand failure modes in MEMS and how to design for reliability. FEA software is used to simulate and probabilistically design MEMS. Students will also learn how to digitally fabricate MEMS using CAD based design layout and visualization software. (Fall)

Components: Class
Prereqs/Coreqs: P: GENENG 2340 and MATH 2840

MUSIC APPLIED COURSES

MUAP 1010  
1 credit
First Semester Lessons
Components: Independent Study

MUAP 1110
Second Semester Lessons
Components: Independent Study

MUAP 2010
Third Semester Lessons
Components: Independent Study

MUAP 2110
Fourth Semester Lessons
Components: Independent Study

MUAP 3010
Fifth Semester Lessons
Components: Independent Study
Prereqs/Coreqs: P: must have successfully completed upper divisional examination before enrolling; C: participation in major ensemble as listed above
MUAP 3110  
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

MUAP 4010  
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

MUAP 4110  
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

MUAP 4910  
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 COURSES

MUSIC 1090  
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  
Jazz Ensemble
Open to performers by permission from faculty within respective field.

Components: Laboratory

MUSIC 1190  
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  
Percussion Ensemble
Open to performers by permission from faculty within respective field.

Components: Laboratory

MUSIC 1220  
Diction for Singers
Fundamentals of phonetics and sound production as applied to singing in French, German and Italian.

Components: Class

MUSIC 1250  
Pioneer Steel Band
In Music 1250 (Pioneer Steel Band), students will study and perform steel band music from the Caribbean, Africa, and the Americas. Music 1250 is 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 spreadsheets 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.

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 study and performance of symphonic repertoire. Open to all university students and area musicians. Placement audition required.

Components: Laboratory

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
Section 1--Wind Ensemble; Section 2--Symphony Band; Section 3--Marching Band; 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.

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
The study and performance of a wide variety of choral literature. Open to all university students and area musicians. Placement audition required.

Components: Laboratory

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: Physical Education
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
Open to performers by permission from faculty within respective field.
Components: Laboratory

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
<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
<th>Components:</th>
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| MUSIC 2530   | 1 credit| Aural Skills III  
Singing intervals, rhythms, and melodies at sight. Harmonic and melodic dictation. To be taken concurrently with MUSIC 2140.                                                                                                                                                                                                                       | 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. May be used to partially satisfy the university humanities general requirement.                                                                                                             | Class, GE: Fine Arts |
| MUSIC 2570   | 1 credit| High Woodwind Techniques  
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.                                                                                                                                            | Laboratory  |
| MUSIC 2650   | 3 credits| History of Jazz  
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. | Class, GE: Fine Arts, Prereqs/Coreqs: P: MUSIC 1590 |
| MUSIC 2670   | 1 credit| Double Reed Woodwind Techniques  
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.                                                                                                                                           | Laboratory  |
| MUSIC 2730   | 3 credits| Music Theory III: Advanced Tonal Theory, Counterpoint, and Composition  
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. | Class, Prereqs/Coreqs: P: MUSIC 1830 |
| MUSIC 2750   | 3 credits| History of American Musical Theatre  
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. | Class, GE: Fine Arts, Prereqs/Coreqs: P: MUSIC 1590 |
| MUSIC 2770   | 1 credit| Diction I  
Fundamentals of phonetics and sound production as applied to singing Italian and English. Instruction in the International Phonetic Alphabet.                                                                                                                                                                                                                   | Class       |
| MUSIC 2850   | 3 credits| History of Rock and Roll  
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. | Class, GE: Fine Arts, Prereqs/Coreqs: P: MUSIC 1590 |
| MUSIC 2870   | 1 credit| Diction II  
Fundamentals of phonetics and sound production as applied to singing German and French. Continuation of material from MUSIC 2770.                                                                                                                                                                                                                       | Class       |
| MUSIC 2920   | 2 credits| Beginning Conducting  
The development of basic conducting techniques and an emphasis on practical application of conducting vocal and instrumental music.                                                                                                                                                                                                                             | Class, Prereqs/Coreqs: P: MUSIC 2770 |
| MUSIC 3160   | 3 credits| Elementary Music Methods for Non-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.                                                                                                                                                                           | Class       |
MUSIC 3170  2 credits
String Pedagogy
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
Prereqs/Coreqs: P: MUSIC 2470

MUSIC 3250  2 credits
History and Literature of Western Music III
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  2 credits
Instrumental Music Methods I
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  2 credits
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  2 credits
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  2 credits
History and Literature of Western Music IV
Music history and literature from 1900 to present. Required for all music majors. Prereqs/Coreqs: P: Must have successfully completed Upper Divisional examination before enrolling.
Components: Class
GE: Fine Arts
Prereqs/Coreqs: P: MUSIC 3250

MUSIC 3360  2 credits
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  2 credits
Piano Pedagogy
A review of materials pertinent to piano teaching is made and the techniques of instructions are emphasized.
Components: Class

MUSIC 3380  2 credits
Choral Literature
Comprehensive study of choral literature from polyphony’s origins through to the present.
Components: Class
Prereqs/Coreqs: P: MUSIC 3350

MUSIC 3430  3 credits
Jazz Improvisation and Theory
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  1 credit
Accompanying
A study of the literature on accompanying and experience in accompanying singers and instrumentalists.
Components: Laboratory

MUSIC 3460  2 credits
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  2 credits
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  2 credits
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 3140

MUSIC 3560  2 credits
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  1 credit
Aural Skills IV
Singing intervals, rhythms, and melodies at sight. Harmonic and melodic dictation. To be taken concurrently with MUSIC 3150.

Components: Class
Prereqs/Coreqs: C: MUSIC 3140

MUSIC 3660  2 credits
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  3 credits
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

MUSIC 3760  2 credits
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 3140

MUSIC 3820  2 credits
Form and Analysis
A study of tonal music in small and large forms.

Components: Class
Prereqs/Coreqs: P: MUSIC 3140

MUSIC 3830  2 credits
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 credits
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 3920  2 credits
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 2220

MUSIC 4010  1 - 3 credits
Music Workshop

Components: Class

MUSIC 4230  2 credits
Advanced Conducting Instrumental
Review and refine techniques applicable to instrumental ensembles which were introduced in the first two semesters of conducting. Advanced techniques of score study, transposition concepts, and the handling of asymmetrical time signatures will be added to the conductor's repertoire.

Components: Class
Prereqs/Coreqs: P: MUSIC 3920

MUSIC 4290  2 credits
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 credits
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 credits
Seminar in Music
A critical examination of one area within the field of music, with the specific subject to be determined by the instructor and the needs of the student.
Components: Seminar

MUSIC 4510 2 credits
Seminar in Music Business I
A 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: an overview of careers in the music industry and necessary qualifications for each; the recording business; marketing recorded music; maintaining studio electronics; sound reinforcement; public relations in the music industry.
Components: Seminar

MUSIC 4520 2 credits
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 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

MUSIC 4920 1 - 3 credits
Independent Study
By permission of the instructor.
Components: Independent Study

PHILOSOPHY

PHLSPHY 1130 3 credits
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. (Fall, Spring)
Components: Class
GE: Humanities

PHLSPHY 2130 3 credits
Peace Studies: Issues, Ideas and Morality of Nuclear War
A critical study of the literature concerning nuclear war. Technical, strategic and philosophical aspects of nuclear war will be given careful analysis, interpretation and discussion in lecture/reading/discussion format.
Components: Class
GE: Humanities

PHLSPHY 2230 3 credits
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 3 credits
Origins of Western Philosophy
Representative thinkers and the development of different traditions in Western philosophy from the pre-Socratics to the Renaissance. (Fall)
Components: Class
GE: Historical Perspective-2nd course only, Humanities

PHLSPHY 2430 3 credits
Philosophy in the Modern World
The principal thinkers and movements of Western philosophy from the Renaissance into the 20th century. (Spring)
Components: Class
GE: Historical Perspective-2nd course only, Humanities

PHLSPHY 2530 3 credits
Ethics
The major types of theories of right and wrong that underlie moral evaluations. (Fall)
Components: Class
GE: Humanities
PHLSPHY 2540 3 credits
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. (Spring and Fall)
Components: Class
GE: Humanities
Prereqs/Coreqs: sophomore standing to enroll in this class

PHLSPHY 2550 3 credits
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 2560 3 credits
Logic
An introductory study of the structure of reasoning and argumentation with practical applications in the socio-political sphere, science and philosophy. (Every other Spring)
Components: Class

PHLSPHY 2730 3 credits
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. (Fall)
Components: Class
GE: Historical Perspective-2nd course only, Humanities

PHLSPHY 2830 3 credits
Introduction to the New Testament
An introduction to the New Testament including historical background, introduction to the problems and methods of interpretation, and a survey of major themes, traditions and thought content of the New Testament. (Spring)
Components: Class
GE: Humanities

PHLSPHY 2930 3 credits
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 3 credits
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 (3 credits). (Occasionally)
Components: Class
GE: Humanities

PHLSPHY 3130 3 credits
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 3 credits
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. (Every other Spring)
Components: Class
GE: Humanities
Prereqs/Coreqs: P: three credits in philosophy or consent of instructor

PHLSPHY 3330 3 credits
Ontology and Ethics
The ontological foundation of ethics in the thought of some major moral philosophers. (Every other Spring)
Components: Class
GE: Humanities
Prereqs/Coreqs: P: three credits in philosophy or consent of instructor

PHLSPHY 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: WOMGENDR 3530
GE: Gender Studies, Humanities
Prereqs/Coreqs: P: three credits in philosophy or WOMSTD 1130 or consent of instructor
PHLSPHY 3630  3 credits
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 3740  3 credits
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  3 credits
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  3 credits
Seminar in Philosophy
A critical examination of a major theme, movement, 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. (Once in a two-year cycle)
Components: Seminar
GE: Humanities
Prereqs/Coreqs: P: six credits in philosophy or consent of instructor

PHLSPHY 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 department. (Occasionally)
Components: Field Studies

PHLSPHY 4720  1 - 3 credits
Individual Research in Philosophy
Advanced work by the individual students. (Occasionally)
Components: Independent Study
Prereqs/Coreqs: P: must be a philosophy major or min

PHYSICAL SCIENCE COURSES

PHSC 1150  5 credits
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. (Spring)
Components: Laboratory, Class
GE: Natural Science

PHSC 1310  1 credit
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. (Fall)
Components: Laboratory
GE: Natural Science
Prereqs/Coreqs: P or C: PHSC 1340

PHSC 1340  4 credits
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. (Fall)
Components: Class
GE: Natural Science

PHSC 3000  1 - 3 credits
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

PHYSICAL EDUCATION COURSES

PHYSED 1000  1 credit
Fitness Assessment and Management
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: Physical Education-Wellness
PHYSED 1020  2 credits
Criminal Justice Fitness
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: Physical Education

PHYSED 1040  1 credit
Canoeing, Kayaking, and/or Rafting in Wisconsin
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. (Spring, Summer)
Components: Laboratory
GE: Physical Education

PHYSED 1100  1 credit
Seasonal Activities
Seasonal lifetime recreational activities such as: inline skating, biking, ice skating, snow shoeing, cross-country skiing, weight lifting, hiking, Frisbee golf, and other current trends in lifetime fitness will be covered.
Components: Class
GE: Physical Education

PHYSED 1110  1 credit
Weight Training
Components: Laboratory
GE: Physical Education

PHYSED 1120  1 credit
Aerobic Weight Training
Components: Laboratory
GE: Physical Education

PHYSED 1130  1 credit
Badminton
Components: Laboratory
GE: Physical Education

PHYSED 1140  1 credit
Basketball
Components: Laboratory
GE: Physical Education

PHYSED 1150  1 credit
Cycling
Components: Laboratory
GE: Physical Education

PHYSED 1190  1 credit
Golf
Components: Laboratory
GE: Physical Education

PHYSED 1200  1 credit
Self Defense
Components: Laboratory
GE: Physical Education

PHYSED 1210  1 credit
Golf
A continuation of 1110.
Components: Laboratory
GE: Physical Education

PHYSED 1220  1 credit
Hydroaerobics
Components: Laboratory
GE: Physical Education

PHYSED 1230  1 credit
Jogging/Walking
Components: Laboratory
GE: Physical Education

PHYSED 1240  1 credit
Racquetball
Components: Laboratory
GE: Physical Education

PHYSED 1250  1 credit
Relaxation
Components: Laboratory
GE: Physical Education

PHYSED 1280  1 credit
Personal Conditioning
Components: Laboratory
GE: Physical Education

PHYSED 1290  1 credit
Racquetball/Badminton
Components: Laboratory
GE: Physical Education

PHYSED 1300  1 credit
Personal Fitness
Components: Laboratory
GE: Physical Education

PHYSED 1310  1 credit
Scuba Diving
Components: Laboratory
GE: Physical Education

PHYSED 1330  1 credit
Cross-Country Skiing
Components: Laboratory
GE: Physical Education
PHYSED 1340  1 credit
Soccer
Components: Laboratory
GE: Physical Education

PHYSED 1360  1 credit
Canoeing
Course will explore and teach values of canoeing, rules of
safety, demonstration and practice of canoeing, go on an
overnight trip on the Wisconsin or Kickapoo River.
Components: Laboratory
GE: Physical Education

PHYSED 1370  1 credit
Dance Tech/Practice (Ballroom, Latin, Country)
Components: Laboratory
GE: Physical Education

PHYSED 1380  1 credit
Triathlon Training
Components: Laboratory
GE: Physical Education

PHYSED 1390  1 credit
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: Physical Education

PHYSED 1400  0.5 - 1 credit
Fitness Assessment and Awareness/Activity
Components: Laboratory
GE: Physical Education

PHYSED 1410  1 credit
Swimming
Components: Laboratory
GE: Physical Education

PHYSED 1430  1 credit
Tennis
Components: Laboratory
GE: Physical Education

PHYSED 1440  1 credit
Volleyball
Components: Laboratory
GE: Physical Education

PHYSED 1450  1 credit
Wallyball/Volleyball
Components: Laboratory
GE: Physical Education

PHYSED 1460  1 credit
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: Physical Education

PHYSED 1530  1 credit
Bowling
Components: Laboratory
GE: Physical Education

PHYSED 1620  1 credit
Aikido
Components: Laboratory

PHYSED 1630  1 credit
Self-Defense
Components: Laboratory

PHYSED 1640  1 credit
Downhill Skiing
Components: Laboratory
GE: Physical Education

PHYSED 1720  1 credit
Intermediate Weight Training
Components: Laboratory

PHYSED 2010  1 credit
Aerobics/Hydroaerobics
Components: Laboratory

PHYSED 2020  2 credits
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

PHYSED 2030  2 credits
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

PHYSED 2040  4 credits
Methods in Health, Nutrition, and Physical Education
The purpose of this class is to provide introductory content
regarding health, nutrition, and physical education. Pedagogi-
cal methods and practical teaching experiences provided.
Components: Class
Prereqs/Coreqs: P: TEACHING 1230
PHYSED 2060  1 credit
Coaching Principles and Sport First Aid
This course is required by the state of Wisconsin for people who want to coach and are non-teaching majors. (Summer)

Components: Class

PHYSED 2080  2 credits
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

PHYSED 2320  2 credits
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

PHYSED 2330  2 credits
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

PHYSED 2410  2 credits
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 which could be covered: baseball/softball, basketball, football, floor hockey, lacrosse, soccer, volleyball, water polo.

Components: Class

PHYSED 2430  3 credits
Adventure Education Practicum
This practicum requires the physical education teacher candidates to assist in the facilitation of groups who attend the UW-Platteville 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

PHYSED 2510  2 credits
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

PHYSED 3010  2 credits
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

PHYSED 3020  4 credits
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

PHYSED 3040  2 credits
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
PHYSED 3120  2 credits
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

PHYSED 3220  2 credits
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

PHYSED 3240  2 credits
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

PHYSED 3330  2 credits
Lifetime Activities
For the physical education teacher candidate to experience, implement, and instruct lifetime activities in their physical education curriculum.
Components: Class

PHYSED 3340  2 credits
Football Coaching
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.
Components: Laboratory

PHYSED 3340  2 credits
Fitness Evaluation
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, Spring)
Components: Laboratory, Class
Prereqs/Coreqs: P: PHYSED 3020

PHYSED 3380  2 credits
Fitness Programming and Prescription
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.
Components: Laboratory
Prereqs/Coreqs: P or C: PHYSED 3360

PHYSED 3400  2 credits
Outdoor Activities/Water Safety Instruction (WSI)
Components: Class

PHYSED 3420  2 credits
Health Promotion at the Worksite
This course prepares the student to plan and implement a health promotion program in a corporate or workplace setting.
Components: Class

PHYSED 3430  3 credits
Teaching Children with Exceptional Abilities in Health and Physical Education
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.
Components: Class
Prereqs/Coreqs: P: PHYSED 3230

PHYSED 3440 2 credits
Elementary/Middle School 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: Laboratory
Prereqs/Coreqs: P: admission to the School of Education

PHYSED 3500  3 credits
Methods in Teaching Health Education
Utilization of approved methods and materials for teaching health in grades kindergarten through 12; application of course content and procedures involved in health teaching.
Components: Class
Prereqs/Coreqs: P: admission to the School of Education and PHYSED 2030

PHYSED 3510  2 credits
Assessment and Screening in Physical Education
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.
Components: Laboratory
Prereqs/Coreqs: P: admission to the School of Education and PHYSED 3430
### PHYSED 3610 1 credit
**Coaching Basketball**
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.

**Components:** Laboratory

### PHYSED 3720 3 credits
**Kinesiology**
The science of human motion and its application to physical education activities.

**Components:** Class  
**Prereqs/Coreqs:** P: A “C” or better in BIOLOGY 2140 or BIOLOGY 2340 and consent of department

### PHYSED 3830 2 credits
**Perceptual Motor Learning and Motor Development**
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.

**Components:** Class  
**Prereqs/Coreqs:** P: PHYSED 2320

### PHYSED 3850 2 credits
**Nutrition**
Food nutrients and their relationships to health of children; integration of nutrition into the elementary school curriculum.

**Components:** Class

### PHYSED 3920 2 credits
**Emotional Health**
The influence of emotional health on the total education of the school age child as a basis for a healthy personality.

**Components:** Class

### PHYSED 4020 2 credits
**Psychology of Coaching**
The principles and techniques applicable to coaching interschool activities.

**Components:** Class

### PHYSED 4230 3 credits
**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

### PHYSED 4330 4 credits
**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

### PHYSED 4370 1 credit
**Lifeguard Training**
The purpose of this class is to provide the student with knowledge and skills of lifeguarding. Includes Red Cross certification.

**Components:** Laboratory

### PHYSED 4380 1 credit
**Water Safety Instructor**
Instruction in teaching Red Cross swimming lessons and water safety courses. Red Cross certification as water safety instructor.

**Components:** Laboratory

### PHYSED 4410 3 credits
**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 UW-Platteville 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

### PHYSED 4420 1 - 2 credits
**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

### PHYSED 4430 1 - 3 credits
**Current Issues in Health and Physical Education**
Study of current topics in health and physical education.

**Components:** Class

### PHYSED 4520 2 credits
**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

### PHYSED 4530 3 credits
**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.
PHYSED 4620  2 credits
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

PHYSED 4840  1 - 4 credits
Athletic Training/Rehabilitation Internship
An internship under the supervision of a certified athletic trainer.
Components: Field Studies
Prereqs/Coreqs: P: PHYSED 4620

PHYSED 4850  3 credits
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

PHYSED 4860  3 credits
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

PHYSED 4870  8 - 12 credits
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

PHYSED 4940  3 credits
Seminar in Community and Environmental Health Education
Problems in health education. Devised to meet needs of the individual student in regard to health service, environment and instruction.
Components: Seminar
Prereqs/Coreqs: P: admission to the School of Education

PHYSED 4960  1 - 3 credits
Independent Study in Physical Education
Components: Independent Study

PHYSED 4990  1 - 3 credits
Independent Study in Health Education
Components: Independent Study

PHYSICS COURSES

PHYSICS 1050  5 credits
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. (Spring)
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  5 credits
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. (Fall)
Components: Discussion, Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P: MATH 1530 or MATH 2450 or math proficiency level of 30 or above

PHYSICS 1450  5 credits
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
GE: Natural Science
Prereqs/Coreqs: P: PHYSICS 1140 or PHYSICS 1350

PHYSICS 2240  4 credits
General Physics I
Mechanics and wave properties for students of engineering, mathematics, and science, including an introduction to experimental techniques and experiments. (Fall, Spring)
Components: Discussion, Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P or C: MATH 2740

PHYSICS 2340  4 credits
General Physics II
Electricity, magnetism, and optics for students of engineering, mathematics, and science, including an introduction to experimental techniques and experiments. (Fall, Spring)
Components: Discussion, Laboratory, Class
GE: Natural Science
Prereqs/Coreqs: P: PHYSICS 2240 with a “C-” or better and MATH 2740 with a “C-” or better

PHYSICS 2410  1 credit
Physics of Sound
An introduction to acoustics with emphasis on engineering applications.
Components: Class
Prereqs/Coreqs: P: PHYSICS 2530 or PHYSICS 2240
PHYSICS 3140  4 credits
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. (Fall, Spring)
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: PHYSICS 2340 with a “C-” or better; CHEMSTRY 1450 or 1240 C: MATH 3630

PHYSICS 4940  1 - 4 credits
Independent Study in Physics
Study of special topics and/or developments of special projects having department approval. (Fall, Spring, Summer)
Components: Independent Study

POLITICAL SCIENCE

POLISCI 1130  3 credits
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  3 credits
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 of 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, ETHNSTDY 2940
GE: Ethnic and Gender, Social Sciences

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
GE: Social Sciences
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
Prereqs/Coreqs: P: POLISCI 1230

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 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 cor-
porations, 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 econo-
my and politics and development of Third World countries.
Components: Class
GE: International Education, Social Sciences
Prereqs/Coreqs: POLISCI 1330

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 diplo-
macy in the human rights field. The course integrates theory
and praxis with the case study method.
Components: Class
GE: Historical Perspective, International Education
Prereqs/Coreqs: POLISCI 1330

POLISCI 3760  3 credits
International Security
This course will examine the nature of and response to inter-
national 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 weap-
ons, democratization, terrorism, economic sanctions, environ-
mental degradation, ethnic conflict, and more.( Offered yearly)
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 partocracy, 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

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 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
Prereqs/Coreqs: P: Permission of instructor

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. (Fall, Spring, most Summers)

Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130

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. (Spring)

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. (Spring)

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. (Fall, Spring)

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. (Fall, Spring, most Summers)

Components: Class
Cross Offering: WOMGENDR 2530
GE: Gender Studies, Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 or one course in women's studies

PSYCHLGY 2930  3 credits
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. (Fall)

Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130

PSYCHLGY 3000  3 credits
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. (Every third semester)

Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 2230

PSYCHLGY 3010  3 credits
Industrial Psychology
This course will provide students with the opportunity to apply the principles of psychology to the work place. Students will engage in role play, team debates, and group discussions. Topics to be addressed include employee motivation, leadership, personality types at work, interpersonal communication, group dynamics and much more. Students will acquire the skills necessary to succeed in today’s work force. (Not currently offered regularly)

Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and second semester sophomore standing

PSYCHLGY 3030  3 credits
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. (Every other semester)

Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and sophomore standing

PSYCHLGY 3130  3 credits
Child Psychology
Surveys the psychological facts, principles, and methods relative to child development from conception to the onset of puberty. (Fall, Spring, most Summers)

Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130

PSYCHLGY 3230  3 credits
Adolescent Psychology
The physical, emotional, social and intellectual characteristics and problems of the adolescent. (Fall, Spring)

Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and sophomore standing

PSYCHLGY 3330  3 credits
Psychological Measurement
A survey of psychological testing with emphasis on the evaluation, administration, interpretation and statistical analysis of the results of psychological measuring devices and techniques. (Not currently offered regularly)

Components: Class
Prereqs/Coreqs: P: PSYCHLGY 1130, MATH 1830 and junior standing

PSYCHLGY 3430  3 credits
Physiological Psychology
Basic anatomy and function of the nervous system; research bearing on the role of physical mechanisms underlying perception, emotion, motivation and learning. (Every third semester)

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  3 credits
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. (Fall, Spring)
Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and sophomore standing

PSYCHLGY 3630  3 credits
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. (Fall, Spring, occasional Summer)
Components: Class
GE: Social Sciences
Prereqs/Coreqs: sophomore standing to enroll in this class

PSYCHLGY 3830  3 credits
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. (Every two years)
Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130

PSYCHLGY 3960  2 credits
Behavioral Research I
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 3970) should be taken in the semester immediately following this course. (Fall, Spring)
Components: Discussion, Class
Prereqs/Coreqs: P: PSYCHLGY 2230 with a “C-” or better and MATH 1830 and psychology major or consent of department chair

PSYCHLGY 3970  3 credits
Behavioral Research II
Behavioral Research II should be taken in the semester immediately following Behavioral Research I (PSYCHLGY 3960). The research project designed in PSYCHLGY 3960 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. (Fall, Spring)
Components: Class
Prereqs/Coreqs: P: MATH 1830 and PSYCHLGY 3960 with a “C-” or better, a psychology major or consent of department chair

PSYCHLGY 3990  3 credits
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. (Spring)
Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and sophomore standing

PSYCHLGY 4020  1 - 3 credits
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. (Every two years)
Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and other prerequisites as appropriate to the topic

PSYCHLGY 4030  3 credits
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. (Every other Fall)
Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing

PSYCHLGY 4330  3 credits
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. (Every Spring, every other Fall)
Components: Class
Prereqs/Coreqs: P: psychology major and PSYCHLGY 2230 and a minimum of twelve 3000 level or higher credits in psychology or consent of instructor

PSYCHLGY 4430  3 credits
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. (Fall, Spring)
Components: Class
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing
PSYCHLGY 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 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. (Fall)
Components: Field Studies
Prereqs/Coreqs: P: junior standing

PSYCHLGY 4730 1 - 3 credits
Individual Study in Psychology (Fall, Spring, Summer)
Components: Independent Study
Prereqs/Coreqs: P: senior standing; 20 credits in Psych; 2.50 minimum G.P.A; 3.00 G.P.A in Psych; completion of all general university requirements in English, speech, and math

PSYCHLGY 4830 3 credits
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. (Every two years)
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. (Fall)
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. (Spring)
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 psychodiagnostics. Practice procedures and applications are also emphasized. (Fall, Spring)
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. (Every other Spring)
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. (offered every other spring)
Components: Class
Prereqs/Coreqs: P: PSYCHLGY 4930 or consent of instructor
RECLAMATION COURSES

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 RELAM 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. (Fall)
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

SOCIAL AND ENVIRONMENTAL JUSTICE COURSES

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 COURSES

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, norm, value, 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 concept 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.

Components: Class
Cross Offering: ETHNSTDY 3230
GE: Ethnic and Gender, 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
SOCIOLOGY 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: SOCIOLOGY 1030 or POLISCI 1130

SOCIOLOGY 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

SOCIOLOGY 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: SOCIOLOGY 1030

SOCIOLOGY 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

SOCIOLOGY 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: SOCIOLOGY 1030

SOCIOLOGY 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

SOCIOLOGY 4730 1 - 3 credits
Individual Study
Independent study supervised by a staff member; primarily for sociology minors.
Components: Independent Study

SOFTWARE ENGINEERING COURSES

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. (Fall, Spring)
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. (Spring)
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. (Fall)
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. (Fall)
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. (Spring)
Components: Class
Prereqs/Coreqs: P: COMPUTER 2630 and SOFTWARE 3430

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. (Fall, Spring)
Components: Field Studies
Prereqs/Coreqs: P: junior standing

SOFTWARE 3970  1 credit
Software 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. (Summer)
Components: Field Studies
Prereqs/Coreqs: 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. (Fall, Spring)
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. (Spring)
Components: Discussion, Laboratory, Class
Prereqs/Coreqs: P: COMPUTER 2630 and SOFTWARE 3430 and (COMPUTER 3230 or ELECTENG 3780)

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. (Fall)
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. (Spring)
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. (Fall, Spring)
Components: Independent Study
SPANISH COURSES

SPANISH 1840  4 credits
Elementary Spanish
Grammar, composition, conversation and beginning reading; emphasis upon oral practice and the language laboratory.
Components: Discussion, Laboratory, Class

SPANISH 1940  4 credits
Elementary Spanish
Continuation of Spanish 1840; language lab.
Components: Laboratory, Class
GE: Humanities-2nd course only
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
Prereqs/Coreqs: P: SPANISH 1940 or equivalent

SPANISH 2940  4 credits
Intermediate Spanish
Continuation of Spanish 2840; language lab.
Components: Laboratory, Class
GE: Humanities
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 chair person

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
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
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
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
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
GE: Humanities
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
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
GE: Humanities
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
GE: Humanities
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPEECH 1250  3 credits
Professional Speaking
Students learn public speaking theory and concepts of communication in the professional setting. Through major-related assignments they practice audience analysis, topic research, organization, delivery, and evaluation of public presentations. This course includes a special emphasis on technology enhanced presentations.

Components: Class
GE: Speech

SPEECH 2010  3 credits
Speech Communication for Teachers
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

SPEECH 2250  3 credits
Communication & Leadership in Small Groups
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

SPEECH 2300  3 credits
Introduction to Intercultural Communication
Students study the theory and practice of intercultural communication. The primary objective of the course is to understand how culture effects communication.

Components: Class
GE: International Education

SPEECH 2500  1 - 3 credits
Topics in Speech
In depth study of topics of interest in speech communication. The topic to be studied will be identified in the course title.

Components: Class

SPEECH 3010  1 credit
Directed Studies in Forensics
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

SPEECH 3250  3 credits
Interpersonal Communication
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, Speech

SPEECH COMMUNICATION COURSES
SPEECH 3500 5 credits  
**Persuasion and Argumentation**  
Students are taught to critically evaluate, write, and orally present persuasive messages. Contemporary theories of persuasion are covered. Students end the semester by preparing and participating in a formal debate.  
Components: Class  
Prereqs/Coreqs: P: SPEECH 1010

SPEECH 3990 3 credits  
**Teaching Methods in Speech Communication**  
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

SPEECH 4010 3 credits  
**Public Address and Speech Writing**  
Students study great speeches and speakers primarily of the 20th Century while learning to write and deliver polished presentations for various occasions. Students will learn to write speeches for themselves and for another speaker. Topics covered will include: audience analysis, appropriate content; language style; nonverbal delivery.  
Components: Class  
Prereqs/Coreqs: P: SPEECH 1010

SPEECH 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: ENGLISH 4020  
GE: Humanities-2nd course only  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

SPEECH 4250 3 credits  
**Senior Seminar**  
Students participate in a seminar on selected topics in the field of speech communication.  
Components: Seminar

SPEECH 4500 3 credits  
**Communication Theory**  
Students learn to build their own theory of communication while studying the major schools of thought about theory, knowledge, and being as well as major theories concerning communication in a variety of contexts.  
Components: Class

SPEECH 4990 1 - 3 credits  
**Independent Study**  
Under the direction of a faculty member, the student completes study and assignments covering a specific speech-related subject, not offered in regularly scheduled courses.  
Components: Independent Study

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TEACHER EDUCATION COURSES

TEACHING 1230 2 credits  
**Introduction to Education**  
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

TEACHING 2010 1 credit  
**Computer Applications in Education**  
An introduction to the use of computers in the classroom.  
Components: Class

TEACHING 2020 1 credit  
**Middle Level Exploratory I**  
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. (Spring)  
Components: Class

TEACHING 2030 1 credit  
**Middle Level Exploratory II**  
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. (Spring)  
Components: Class

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  
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  
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  
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  
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  
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. (Spring)  
Components: Class  
Prereqs/Coreqs: P: admission to the School of Education

TEACHING 3240  
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  
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. (Field experience: 15 hours)  
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  
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. (Spring)  
Components: Class

TEACHING 3630  
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: ETHNSTDY 3630, WOMGENDR 3630  
GE: Ethnic and Gender

TEACHING 3640  
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  
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 Technology
Audio and visual materials that make up the field of educational media; laboratory activities for use, design and development of instructional media; interrelationship of communication theory; selection, utilization and production of materials, microcomputer applications and the operation of equipment.

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. (Fall and even Summers)

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. (Fall)

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. (Fall - odd years)

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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 4120</td>
<td>2 credits</td>
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<tr>
<td>Pre-Student Teaching and Seminar in an Inclusionary Environment</td>
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<tr>
<td>Observation of children/youth in learning situations, participation in learning activities of the classroom, teaching several lessons, and evaluation of teaching-learning experiences in an CWD environment. Required of students working towards a special education/inclusion minor.</td>
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<tr>
<td>Components: Seminar</td>
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<td>Prereqs/Coreqs: P: admission to the School of Education</td>
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<tbody>
<tr>
<td>TEACHING 4140</td>
<td>4 credits</td>
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<tr>
<td>Teaching Mathematics and Science in Early Childhood and Elementary Settings</td>
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<tr>
<td>This course addresses standards, methods, theories, and materials related to teaching mathematics and science in early childhood and elementary settings.</td>
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<td>Components: Class</td>
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<tr>
<td>Prereqs/Coreqs: P: a “C-” or better in MATH 3030 and admission to the School of Education. C: TEACHING 4090</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>TEACHING 4150</td>
<td>3 credits</td>
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<tr>
<td>Assessing Children with Disabilities (CWD)</td>
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<tr>
<td>A survey of psychological testing with emphasis on the evaluation, administration, interpretation, and statistical analysis of the results of psychological testing devices and techniques. (Spring)</td>
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<td>Components: Class</td>
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<td>Prereqs/Coreqs: P: admission to the School of Education</td>
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<tbody>
<tr>
<td>TEACHING 4200</td>
<td>3 credits</td>
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<tr>
<td>Transitions for Children with Disabilities (CWD)</td>
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<tr>
<td>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. (Spring and odd Summers)</td>
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<td>Components: Class</td>
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<td>Prereqs/Coreqs: P: admission to the School of Education</td>
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<tbody>
<tr>
<td>TEACHING 4210</td>
<td>1 - 2 credits</td>
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<tr>
<td>Pre-Student Teaching at Middle/Secondary Level</td>
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<tr>
<td>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)</td>
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<td>Components: Class</td>
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<td>Prereqs/Coreqs: P: admission to the School of Education</td>
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<tr>
<td>TEACHING 4220</td>
<td>2 credits</td>
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<tr>
<td>Advising, Interaction and Communication</td>
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<tr>
<td>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. (Spring, Summer)</td>
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<td>Components: Class</td>
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<tr>
<td>Prereqs/Coreqs: P: admission to the School of Education; TEACHING 3110 and TEACHING 3120; C: TEACHING 4620</td>
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<tr>
<td>TEACHING 4240</td>
<td>1 - 6 credits</td>
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<tr>
<td>Student Teaching - Early Childhood</td>
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<tr>
<td>Components: Field Studies</td>
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<td>Prereqs/Coreqs: P: admission to the School of Education</td>
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<tr>
<td>TEACHING 4250</td>
<td>2 credits</td>
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<tr>
<td>Senior Seminar</td>
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<td>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.</td>
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<td>Components: Seminar</td>
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<tr>
<td>Prereqs/Coreqs: P: TEACHING 3130 and TEACHING 3240 and TEACHING 3040 and TEACHING 3730 and TEACHING 4420</td>
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<tbody>
<tr>
<td>TEACHING 4260</td>
<td>2 - 6 credits</td>
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<tr>
<td>Student Teaching B-11 Kindergarten</td>
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<tr>
<td>Components: Field Studies</td>
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<tr>
<td>Prereqs/Coreqs: P: TEACHING 3040 and TEACHING 3130 and TEACHING 3240 and TEACHING 3730 and TEACHING 4420 C: TEACHING 4360 and TEACHING 4990</td>
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<tr>
<td>TEACHING 4330</td>
<td>3 credits</td>
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<tr>
<td>Administration and Family Relations in Early Childhood</td>
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<tr>
<td>Development of managerial and leadership roles, knowledge of requirements for licensure and licensing, effective communication with staff and parents, community relations, and advocacy.</td>
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<td>Components: Class</td>
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<td>Prereqs/Coreqs: P: TEACHING 2210</td>
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<tr>
<td>TEACHING 4360</td>
<td>6 credits</td>
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<tr>
<td>Student Teaching Elementary</td>
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<tr>
<td>Components: Field Studies</td>
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<tr>
<td>Prereqs/Coreqs: C: TEACHING 4260 and TEACHING 4990</td>
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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 4460 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. (Occasionally)
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 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. (Spring)
Components: Class
Prereqs/Coreqs: P: junior standing or consent of instructor

TEACHING 4760 6 - 12 credits
Student Teaching B-21
Components: Field Studies
Prereqs/Coreqs: P: TEACHING 4210 or PHYSED 4530; 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. (Fall, Summer)
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 COURSES

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. (Fall)
Components: Class

THEATRE 1430  3 credits
Oral Interpretation of Literature
Theory and practice of the oral communication of the major prose and poetic forms of literature.
Components: Class

THEATRE 1930  3 credits
Voice and Diction
The study of the speaking voice; vocal production, articulation, pronunciation and interpretation text. (Every other Spring - even years)
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. (Every other Fall - odd years)
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. (Every Fall)
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. (Every other Fall - odd years)
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. (Every other Spring - even years)
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. (Every other Spring - odd years)
Components: Laboratory, Class
Prereqs/Coreqs: P: THEATRE 1230 and THEATRE 1340 and THEATRE 3130

THEATRE 3400  3 credits
Drafting for the Theatre
Introduction and study of mechanical drafting techniques used in theatre.
Components: Class

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. (Every other Fall - even years)
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. (Every spring)
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. (Every other Spring - odd years)
Components: Laboratory, Class
Prereqs/Coreqs: P: THEATRE 3830

THEATRE 4210  3 credits
Dramatic Literature I
Survey of dramatic literature from 1660-1945. (Every other fall - odd years)
Components: Class
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. (Every other Spring - even years)
Components Class
GE: Fine Arts
Prereqs/Coreqs: P: THEATRE 1130

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: one design course (THEATRE 3210 or THEATRE 3240 or THEATRE 3250) and THEATRE 2730 or consent of instructor

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. (Every other Fall - even years)
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. (Every other Spring - odd years)
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
Cross Offering: WOMGENDR 4840
GE: Gender Studies
Prereqs/Coreqs: P: THEATRE 1130

THEATRE 4930  3 credits
Senior Capstone
Senior thesis project in acting, directing and design.
Components: Independent Study
Prereqs/Coreqs: P: consent of instructor

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

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 prereqs/coreqs (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
GE: International Education

UWPSTUDY 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

UWPSTUDY 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
GE: International Education
UWPSTUDY 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 prerequisites/corequisites (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
GE: International Education

UWPSTUDY 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 COURSES

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 OR Social Sciences

WOMGENDR 2150 3 credits
Introduction to Gay Studies
Introduction to Gay Studies is interdisciplinary discipline 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
Cross Offering: ENGLISH 2150
GE: Gender Studies, Humanities-2nd course only, International Education
Prerequisites/Corequisites: 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, Physical Education-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.
(Fall, Spring, most Summers)

Components: Class

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

WOMGENDR 2830 3 credits
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. (Fall)

Components: Class
Cross Offering: ENGLISH 2830
GE: Gender Studies, Humanities
Prerequisites/Corequisites: P: ENGLISH 1130 and ENGLISH 1230
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. (Fall, Spring)

Components: Class
Cross Offering: ENGLISH 2930, ETHNSTDY 2930
GE: Ethnic and Gender, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

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: ENGLISH 3280
GE: Gender Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

Topics in Women & Gender Studies

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 studies

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, ETHNSTDY 3340
GE: Ethnic and Gender
Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500 or junior standing

Women and the Arts

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

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: HISTORY 3520
GE: Gender Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor
WOMGENDR 3530 3 credits
Philosophy's Feminist Future: From Powerism to Person-alism
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. (Every other Spring)
Components: Class
Cross Offering: PHLSPHY 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 and Gender

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: Gender Studies, Historical Perspective
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, 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, and Audre Lorde, and others.
Components: Class
Cross Offering: ETHNSTDY 3830
GE: Ethnic and Gender
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 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. (Every other Fall)
Components: Class
Cross Offering: ENGLISH 4500
GE: Gender Studies, Humanities, International Education
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
### FACULTY AND ACADEMIC STAFF

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Department</th>
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<tbody>
<tr>
<td>Achia, William J.</td>
<td>Assistant Professor, Business Administration; Student Services Program Manager</td>
<td>Department of Business and Accounting</td>
<td>B.A.,</td>
<td>M.B.A.,</td>
<td>M.I.T.O.</td>
<td>Illinois Institute of Technology</td>
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<td>Adams, Karen</td>
<td>Marketing Director, Distance Learning Center; Assistant Professor</td>
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<td>B.A., Clarke College</td>
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<td>Akins, Matthew S.</td>
<td>Assistant Professor, Animal Science</td>
<td>School of Agriculture; B.S.,</td>
<td>University of Wisconsin-Platteville</td>
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<td>Albers, Mark A.</td>
<td>Assistant Professor, Instruction and Enrollment Services; B.S., M.S.</td>
<td>Department of Industrial Studies;</td>
<td>Loras College</td>
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<td>Albers, Larry R.</td>
<td>Assistant Coach and At Risk Advisor, Intercollegiate Athletics; First Year Experience</td>
<td>B.A., Loras College; M.S.E. University of Wisconsin-Platteville</td>
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<td>Alcayal, Eugene</td>
<td>Professor, Music, Department of Performing and Visual Arts</td>
<td>B.M., Indiana University School of Music</td>
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<td>Alcayal, Ruth E. Mayers</td>
<td>Senior Lecturer, History, Department of Social Sciences</td>
<td>B.A., Oxford University; M.S., Ph.D.</td>
<td>Washington University</td>
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<td>Aldworth, Kelly Jo</td>
<td>Assistant Director, Student Union, Student Centers; B.A., Winona State University</td>
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<td>Almquist, James N.</td>
<td>Senior Lecturer, General Engineering, Department of General Engineering</td>
<td>B.S., M.S., UW-Madison</td>
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<td>Amin, Mohammad</td>
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<td>Anderson, Donna L.</td>
<td>Director, International Education Program, Student Support Services, Academic Affairs</td>
<td>B.A., Luther College; M.A., Loras College</td>
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<td>Anderson, Steven</td>
<td>Developmental Skills Specialist, Student Support Services, Academic Affairs</td>
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<td>Anderson, Laura J.</td>
<td>Professor, Foreign Languages (French and Spanish), Department of Humanities</td>
<td>B.A., Dana College; M.A., Ph.D.</td>
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<td>Antczak, Thomas R.</td>
<td>Coach, Intercollegiate Athletics; Lecturer, Physical Education</td>
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<td>Artz, Jason D.</td>
<td>Associate Counselor, University Counseling Services; Student Affairs; B.S., M.S.Ed.</td>
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<td>Artz, Jennifer</td>
<td>Student Services Coordinator, Residence Life, Student Affairs; B.A., UW-Stevens Point</td>
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<td>Attenborough, Holly</td>
<td>Assistant Professor, Mathematics, Department of Mathematics</td>
<td>B.S., M.A. Miami University; Ph.D. Indiana University</td>
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<td>Attenborough, Daniel</td>
<td>Director, Distance Education, Alternative Delivery Systems</td>
<td>B.A., Lora College; M.S., University of Wisconsin-Platteville</td>
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<td>Austin, Larry L.</td>
<td>Lecturer, Civil Engineering, Department of Civil and Environmental Engineering</td>
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<td>Baily, Marcia Harr</td>
<td>Assistant Professor, Instruction and Entrepreneurship Coordinator</td>
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<td>B.S., Upper Iowa University; M.S. Cardinal Stritch University; Ph.D., Fordham University</td>
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<td>Ball, James A.</td>
<td>Director, Student Union, Student Affairs</td>
<td>B.A., Pittsburgh State University; M.S.E., University of Nebraska-Lincoln</td>
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<td>Banachowski-Fuller, Cheryl A.</td>
<td>Professor, Criminal Justice, Department of Criminal Justice</td>
<td>B.S., M.A., University of Toledo; Ph.D., North Carolina State University</td>
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<td>Banerjee, Swagata</td>
<td>Associate Professor, Agricultural Science, School of Agriculture</td>
<td>B.Sc., University of Calcutta (India); M.S., University of Nebraska</td>
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### WOMGENDR 4840

#### 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
**Prereqs/Coreqs:** P: ENGLISH 1230

### WOMGENDR 3340

#### 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, ETHNSTDY 3340
**GE:** Ethnic and Gender
**Prereqs/Coreqs:** P: BUSADMIN 2330 or AGINDUS 1500 or junior standing

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**Annalalai, V. Raja** (2011); Assistant Professor, Chemistry, Department of Chemistry; B.S., Georgia Institute of Technology; Ph.D., University of Pennsylvania.

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**Artz, Jennifer** (2010); Student Services Coordinator, Residence Life, Student Affairs; B.A., UW-Stevens Point; M.S., University of Wisconsin-Platteville.

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**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.

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Barnet, 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); Professor, Counseling Psychology, School of Education; Coordinator, Learning Outcomes Assessment, Academic Affairs; B.A., University of Washington, Seattle; M.S., Central Washington University; Ph.D., University of North Dakota.

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., Suleyman Demirel University (Turkey); M.Sc., Istanbul Technical University (Turkey); Ph.D., Old Dominion University.

Beccarik, Rachel A. (2013); Assistant Professor, Statistics, Department of Mathematics; B.A., Luther College; M.S., Ph.D., Florida State University.

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.

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Turner, Nancy L. (1996); Professor, History, Department of Social Sciences; Chair, Department of Social Sciences; B.A., University of Missouri; M.A., Ph.D., University of Iowa.

Udelhofen, Angela M. (2000); Assistant Chancellor, Admission and Enrollment Services, Admission and Enrollment Services, Student Affairs; B.S., M.S., University of Wisconsin-Platteville.

Uhrig, Krista (2011); Associate Student Services Coordinator, International Programs, Student Affairs; B.A., University of Wisconsin-Madison; M.A., University of Minnesota.

UI-Haq, Irfan (2005); Associate Professor, Mathematics, Department of Mathematics; Assistant Director, Teaching and Learning Center; M.S., Punjab University (Pakistan); M.S., University of Alabama at Huntsville; Ph.D., University of Alabama at Tuscaloosa.

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Vance, Steve R. (1993); Professor, Art, Department of Performing and Visual Arts; B.F.A., Oklahoma State University; M.F.A., School of Visual Arts.

Vance, Tiffany C. (2001); Lecturer, Speech, Department of Visual and Performing Arts; B.A., University of Wisconsin-Platteville; M.F.A., University of Illinois.

Vice, Mari A. (1997); Associate Professor, Geology, Department of Social Sciences; B.A., UW-Oshkosh; M.S., Ph.D., Southern Illinois University.

Vidden, Nicole (2012); Advisor, Career Center, Student Affairs; B.S., M.S., Minnesota State University.

Voelz, Richard A. (1992); Senior Counselor, University Counseling Services; B.A., UW-Madison; M.S., UW-Whitewater.

Voigts, Sara (2011); Associate Budget Planner, University Budget, Administrative Services; B.S. University of Wisconsin-La Crosse; M.B.A., Clarke University.

Wackershauser, Dan (2012); Editor, University Information and Communications, University Advancement; B.S., University of Wisconsin-Platteville.

Wagner, Jason (2008); Assistant Coach, Intercollegiate Athletics; B.S., UW-Stevens Point; M.S., California University of Pennsylvania.

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Walter, Chris W. (1997); Advisor, Admission and Enrollment Services; Coach, Intercollegiate Athletics; B.A., UW-Madison.

Wang, Carolyn (2012); Assistant Professor, Business Administration, Department of Business and Accounting; B.Sc., University of Heilongjiang (China); M.S., London Metropolitan University; Ph.D., Illinois Institute of Technology.

Wang, Judith J. (1992); Lecturer, Psychology, Department of Psychology; B.S., UW-Madison; B.A., M.S.E., University of Wisconsin-Platteville.

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Waugh, Richard A. (1978); Professor, Geography and Geology, Department of Social Sciences; B.S., M.A., University of Missouri-Columbia; Ph.D., UW-Madison.

Weber, Wayne C. (1997); Dean, College of Business, Industry, Life Science and Agriculture; Professor, Biology, Department of Biology; B.S., M.S., Ph.D., Colorado State University.

Wedge, Keri (2004); Outreach Program Manager, Continuing Education; A.A., Southwest Wisconsin Technical College; B.S., UW-La Crosse.

Weigel, Cory J. (1999); Administrative Program Specialist, Pioneer Farm, School of Agriculture; B.S., M.S.E., University of Wisconsin-Platteville.

Weigel, Katie (2013); Associate Artist, University Information and Communications; B.S., University of Wisconsin-Whitewater.

Wein, Kory (2005); Associate Professor, English, Department of Humanities; Associate Dean, College of Liberal Arts and Education; B.S., UW-Stevens Point; M.A., UW-Eau Claire; Ph.D., Purdue University.

Wendorff, Laura C. (1993); Professor, English, Department of Humanities; B.A., UW-Madison; M.A., Ph.D., University of Michigan.

Westfall, Barbara (2012); Assistant Professor, Art, Department of Performing and Visual Arts; B.F.A., M.F.A., University of Wisconsin-Madison.

Wetzel, Valerie J. (2001); Assistant Director, Markee Pioneer Student Center and Pioneer Involvement, Student Affairs; B.A., Albion College; M.S.E., UW-La Crosse.

White, Scott A. (1980); Professor, Business Administration, Department of Business and Accounting; B.S., University of Nebraska-Lincoln; J.D., Creighton University.

Wiegman, Kenneth M. (1998); Information Processing Consultant, Information Technology, College of Liberal Arts and Education; B.A., University of Wisconsin-Platteville.

Wiese, James A. (1995); Instrumentation Specialist, College of Engineering, Mathematics and Science; B.S., Marquette University.

Williams, Mary Rose (2005); Associate Professor, Media Studies, Department of Media Studies; B.A., George Mason University; M.A., Colorado State University; Ph.D., University of Oregon.

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Wilson, Megan (2010); Coach, Intercollegiate Athletics; Lecturer, Physical Education, School of Education; B.S., M.S.E., UW-Stevens Point.

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Wright, Scott C. (2010); Assistant Professor, Project Management, Department of Business and Accounting; M.S., Stanford University; Ph.D., University of Colorado.

Wruble, Marc K. (1993); Professor, Psychology, Department of Psychology; B.S., Eastern Michigan University; M.S., Ph.D., University of Florida-Gainesville.

Wu, Tsunghsueh (2008); Associate Professor, Chemistry, Department of Chemistry and Engineering Physics; B.S., Michigan Technological University; Ph.D., Auburn University.

Wu, Yan (2009); Assistant Professor, Physics, Department of Engineering Physics; M.S., University of Alabama at Tuscaloosa; Ph.D., University of Illinois at Urbana-Champaign.

Wubbens, Lisa (2008); Assistant Coach, Intercollegiate Athletics; Advisor, Admission and Enrollment Services, Student Affairs; B.S., University of Wisconsin-Platteville.

Wurtzler, Judith M. (1996); Senior Academic Librarian, Karrmann Library; B.S., Edgewood College; M.A., UW-Madison.
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Economics

Kahtan Al Yasiri
Economics

Vernon C. Allsup
Ethnic Studies

John E. Ambrosius
Agricultural Industries

Max L. Anderson
Civil Engineering

Terry L. Baker
Physics

Harold D. Beals
Agricultural Industries

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Educational Psychology

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Speech

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Student Support Services

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C. Ellsworth Hood

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Deborah Kinder

Jack Kirby

William E. Kissner

Dwight Klaassen

Richard A. Klawiter

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Physical Education and Health

Theatre

Theatre

Accounting

Agricultural Industries

Chemistry

International Studies

Registrar

History

Engineering Physics

Financial Aid

English

Accounting

Biology

Biology

Student Affairs

Counselor Education

Mechanical Engineering

Arts and Sciences

Chemistry

Business Administration

Mechanical Engineering

College of EMS

Biology

Physical Education and Health

Computer Science

Theatre

English

Art

Mathematics

Mathematics

Mathematics

Campus Planning

Chemistry

Business Administration

Industrial Studies

Agricultural Sciences

History

English

Agriculture

Biology

Philosophy

Industrial Studies

Agriculture

Children’s Center

Health and Physical Education

Art

Counseling Psychology

Speech

Education

Admissions and Enrollment

Management

Human Resources

Agricultural Sciences

English

Industrial Studies

Civil Engineering

Chemistry

Industrial Studies
<table>
<thead>
<tr>
<th>Name</th>
<th>Department or Program</th>
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<tbody>
<tr>
<td>Stephen W. Kleisath</td>
<td>Business Administration</td>
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<tr>
<td>Charles Knox</td>
<td>Industrial Studies</td>
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<td>Eugene Korb</td>
<td>Engineering</td>
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<td>Carol Lange</td>
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<td>Lang Wah Lee</td>
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<td>Virginia Levin</td>
<td>Project Management</td>
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<td>Victor M Levy, Jr.</td>
<td>Education</td>
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<td>Deborah A. Lewis</td>
<td>English</td>
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<td>Michael E. Lewis</td>
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<td>Robert Lind</td>
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<td>Lloyd L. Linden</td>
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<td>Terrence L. Liska</td>
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<td>Thomas Lo Guidice</td>
<td>Education</td>
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<td>Frank J. Lofy</td>
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<td>Joseph B. Lomax</td>
<td>Criminal Justice</td>
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<td>Kathryn Lomax</td>
<td>Sponsored Programs</td>
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<td>Gediminas Marchertas</td>
<td>Foreign Languages</td>
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<td>David J. Markee</td>
<td>Administration</td>
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<td>Lou Ann Markee</td>
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<td>Earl McCullough</td>
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<td>Michael O. Mee</td>
<td>Agriculture</td>
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<tr>
<td>William G. Melville</td>
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<td>Alvin Menninga</td>
<td>English</td>
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<tr>
<td>Roger J. Meyer</td>
<td>Counseling Services</td>
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<tr>
<td>Joyce Miller</td>
<td>Chemistry</td>
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<td>William K. Miller</td>
<td>Psychology</td>
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<td>Milton Mitchell</td>
<td>Mathematics</td>
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<td>Edwin E. Moore</td>
<td>Education</td>
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<tr>
<td>Stanley R. Moore</td>
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</tr>
<tr>
<td>Judith E. Moriarty</td>
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</tr>
<tr>
<td>Paul Moriarty</td>
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</tr>
<tr>
<td>Robert M. Morpew</td>
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</tr>
<tr>
<td>Thomas B. Nelson</td>
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<tr>
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<tr>
<td>Calvin L. Myrbo</td>
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<tr>
<td>Robert P. Nusbaum</td>
<td>Agricultural Sciences</td>
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<tr>
<td>David Olson</td>
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<tr>
<td>John O'Neill</td>
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<td>Fred Oomens</td>
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<tr>
<td>Marjon Ornstein</td>
<td>Foreign Languages</td>
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<tr>
<td>Jerry D. Oxenford</td>
<td>Business Administration</td>
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<tr>
<td>Gianfranco Pagnucci</td>
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<tr>
<td>Dolores Rock Hutcheson</td>
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<tr>
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<td>Michael G. Rowe</td>
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<tr>
<td>Rita Rukashaza</td>
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<tr>
<td>John Runde</td>
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<tr>
<td>Charles SaLoutos</td>
<td>Education</td>
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<tr>
<td>Jean Sanders</td>
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<td>Carol Sands</td>
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<td>Philip Sands</td>
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<td>Kenneth Shubak</td>
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<td>Richard D. Shultz</td>
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<td>John Simonson</td>
<td>Economics</td>
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<td>George E. Smith</td>
<td>Speech</td>
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<td>Roy Smith</td>
<td>Physics</td>
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<td>Marcia J. Sola</td>
<td>International Student Services</td>
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<td>John Soley</td>
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<td>Robert Sommer</td>
<td>Mathematics</td>
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<td>Sandra Spofford</td>
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<tr>
<td>William Spofford</td>
<td>Study Abroad</td>
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<tr>
<td>Sally Staniford</td>
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<td>Gloria Stephenson</td>
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<td>William Stindt</td>
<td>Administrative Services</td>
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<td>Thomas G. Stodola</td>
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<td>Robert Stone</td>
<td>Education</td>
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<tr>
<td>Jerry L. Strohm</td>
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<tr>
<td>Frank Studnicka</td>
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<td>DuWayne Stuelke</td>
<td>Industrial Studies</td>
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<tr>
<td>Bheru Sukhwal</td>
<td>Geography</td>
</tr>
<tr>
<td>Charles Sundin</td>
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<tr>
<td>Shiv Tandon</td>
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<td>Mahi Tandon</td>
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<tr>
<td>Joseph Thomas</td>
<td>Industrial Studies</td>
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<tr>
<td>Dawson Trine</td>
<td>Mathematics</td>
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<tr>
<td>Elizabeth Tucker</td>
<td>Financial Aid</td>
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<td>Frederic Tufta</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Jamir Uddin</td>
<td>Accounting</td>
</tr>
<tr>
<td>V. John Vacca</td>
<td>Physical Education and Health</td>
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<tr>
<td>Thomas Vail</td>
<td>Physical Plant</td>
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<tr>
<td>James K. Valaskey</td>
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<tr>
<td>David P. Van Buren</td>
<td>Psychology</td>
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<td>Robert I. Velzy</td>
<td>Psychology</td>
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<tr>
<td>Don M. Verger</td>
<td>Education</td>
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<tr>
<td>L. Dale Vertein</td>
<td>Student Affairs</td>
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<tr>
<td>Michael A. Viney</td>
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<tr>
<td>Rhonda L. Viney</td>
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<tr>
<td>Richard Voelz</td>
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<tr>
<td>Vernon Vradenburg</td>
<td>Biology</td>
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<tr>
<td>Richard Wadewitz</td>
<td>Civil Engineering</td>
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<tr>
<td>Russel O. Wagner</td>
<td>Physical Education and Health</td>
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<tr>
<td>Yang Ling (Dave) Wang</td>
<td>Biology</td>
</tr>
</tbody>
</table>
Chancellor's Cabinet 2012-2013

Dennis J. Shields, Chancellor
Donna Anderson, Director, Study Abroad
Laura Anderson, Faculty Senate Chair
Kevin Bernhardt, Director, Pioneer Academic Center for Community Engagement
Holly Clendenen, Director, Development
Michael Compton, Director, School of Agriculture
Andrea Cool, Academic Staff Senate Chair
Dennis Cooley, Assistant Chancellor for Advancement/Development
Robert Cramer, Vice Chancellor for Administrative Services
Christina Curras, Special Assistant to Vice Chancellor for Administrative Services
Pete Davis, Director, Physical Plant
Jennifer deCoste, Chief Diversity Officer
Mittie Nimocks Den Herder, Provost and Vice Chancellor for Academic Affairs
Dawn Drake, Executive Director, Alternative Delivery Systems

Shane Drefcinski, Director of General Education/Assessment Coordinator
E. Jeanne Durr, Director, Human Resources
Paul Erickson, Director, Public Relations
William Hudson, Dean, College of Engineering, Mathematics and Science
David Kieckhafer, Registrar
William Kuehni, Student Body President
Mark Mailloux, Senior Institutional Planner
Scott Marquardt, Director, University Police
Jodi McDermott, Assistant Dean College of Business, Industry, Life Science and Agriculture
Angela Miller, Director, Office of Multicultural Student Affairs
Mark Molesworth, Director, Athletics

James Mueller, Executive Director of Auxiliary Services
Linda Mulroy-Bowden, Interim Director, Residence Life
Amy Nemmetz, Director, First Year Experience
Mary Cheryl Nevins, Interim Dean of Students
Cathy Riedl-Farrey, University Controller and Director of Financial Services
Lisa Riedle, Associate Dean, College of Engineering, Mathematics and Science
Zora Sampson, Director, Karrmann Library
Kim Schmelz, Alumni Coordinator
Michael Sherer, Associate Director, Office of Information Technology
Rose Smyrski, Special Assistant to the Chancellor
Karen Stinson, Dean, College of Liberal Arts and Education
Elizabeth Throop, Assistant Director, Admissions and Enrollment Services
David Van Buren, Associate Vice Chancellor and Dean of Graduate Studies
Wayne Weber, Dean, College of Business, Industry, Life Science and Agriculture
Kory Wein, Associate Dean, College of Liberal Arts and Education
Joanne Wilson, Interim Assistant Chancellor for Student Affairs
Joyce Burkholder, Recording Secretary

UW System Administration

University of Wisconsin Administrators
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Mark Nook, Senior Vice President for Academic Affairs
Deborah A. Durcan, Vice President for Finance
Tomas L. Stafford, General Counsel

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Michael J. Falbo, Milwaukee (Regent Vice President)
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Katherin Pointer, Madison (Student Regent)
Charles Pruitt, Milwaukee (Regent President)
Gary Roberts, Onalaska
Brent Smith, La Crosse (Regent President)
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José F. Vásquez, Milwaukee
David G. Walsh, Madison
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 UW-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/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 measure of academic duration. A one credit hour course generally represents one hour of class participation per week. A three credit course means three hours of class participation per week.

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 Requirement
A component of a degree program which is designed to provide a broad-based education and competency, to include English, speech, mathematics, physical education, 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 UW-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 is a cumulative G.P.A of 2.00 or higher.

Grade Point
The numerical value given to letter grades. At UW-Platteville, we are on a 4.00 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 the course requirements within nine weeks of the next semester of attendance or the incomplete grade will become an “F” grade.

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 UW-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. This handbook is free for all students at the University Textbook Center located in Doudna Hall.

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 they meet established academic standards within a set period of time. Failure to meet the standard generally results in dismissal from the university.

Reentry
An enrollment procedure for students who were previously enrolled at UW-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 13-16 weeks in duration. UW-Platteville has two semesters (fall and spring), and a summer session which is eight weeks in duration.

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 misconduct 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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